

Panasonic

System Controller Operating Instructions

Model No. **WV-CU360CJ/B**
WV-CU360CJ/G

ENGLISH



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Ⓜ

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

The model number is abbreviated in some descriptions in this manual.

ENGLISH VERSION

We declare under our sole responsibility that the product to which this declaration relates is in conformity with the standards or other normative documents following the provisions of Directives 2006/95/EC and 2004/108/EC.

Wir erklären in alleiniger Verantwortung, daß das Produkt, auf das sich diese Erklärung bezieht, mit der folgenden Normen oder normativen Dokumenten übereinstimmt. Gemäß den Bestimmungen der Richtlinie 2006/95/EC und 2004/108/EC.

Nous déclarons sous notre seule responsabilité que le produit auquel se réfère la présente déclaration est conforme aux normes ou autres documents normatifs conformément aux dispositions des directives 2006/95/CE et 2004/108/CE.

Nosotros declaramos bajo nuestra única responsabilidad que el producto a que hace referencia esta declaración está conforme con las normas u otros documentos normativos siguiendo las estipulaciones de las directivas 2006/95/CE y 2004/108/CE.

Noi dichiariamo sotto nostra esclusiva responsabilità che il prodotto a cui si riferisce la presente dichiarazione risulta conforme ai seguenti standard o altri documenti normativi conformi alle disposizioni delle direttive 2006/95/CE e 2004/108/CE.

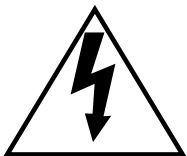
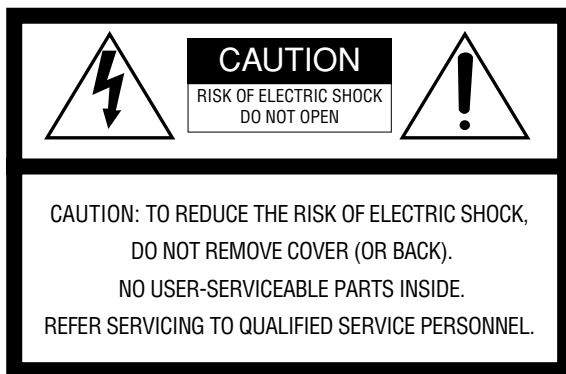
Wij verklaren als enige aansprakelijke, dat het product waarop deze verklaring betrekking heeft, voldoet aan de volgende normen of andere normatieve documenten, overeenkomstig de bepalingen van Richtlijnen 2006/95/EC en 2004/108/EC.

Vi erklærer os eneansvarlige for, at dette produkt, som denne deklaration omhandler, er i overensstemmelse med standarder eller andre normative dokumenter i følge bestemmelserne i direktivene 2006/95/EC og 2004/108/EC.

Vi deklarerar härmed vårt fulla ansvar för att den produkt till vilken denna deklaration hänvisar är i överensstämmelse med standarddokument, eller andra normativa dokument som framställs i direktiv nr. 2006/95/EC och 2004/108/EC.

Ilmoitamme yksinomaisella vastuullamme, että tuote, jota tämä ilmoitus koskee, noudattaa seuraavia standardeja tai muita ohjeellisia asiakirjoja, jotka noudattavat direktiivien 2006/95/EC ja 2004/108/EC säädöksiä.

Vi erklærer oss alene ansvarlige for at produktet som denne erklæringen gjelder for, er i overensstemmelse med følgende normer eller andre normgivende dokumenter som følger bestemmelsene i direktivene 2006/95/EC og 2004/108/EC.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

- To prevent fire or electric shock hazard, do not expose this apparatus to rain or moisture.
- The apparatus should not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION:

Before attempting to connect or operate this product, please read the label on the bottom.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. WV-CU360CJ

Serial No. _____

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PREFACE

The System Controller WV-CU360CJ is designed for setup and operation of cameras and other system units installed in a surveillance system.

The controller is compatible with the Panasonic Security Data (PS•Data) protocol by default, but DIP switches are provided to select the conventional communication protocol used with the Video Multiplexer WJ-FS616C or Matrix Switcher WJ-SX850. Exchangeable templates are supplied

to adapt the names printed on the buttons to the functions of the unit you wish to control.

You can operate a whole system from the controller, for example, by selecting cameras and monitors, watching monitor screens and indicators, and controlling pan/tilt, lens and other camera functions.

FEATURES

Main features

- Camera channel selection
- Monitor Selection
- Alarm (Display/Suspend/Recall/Reset)
- Camera and system unit setup

Camera controls

- Lens functions: Iris/Focus/Auto Focus/Zoom
- Housing: Defroster/Wiper/Auxiliary 1, 2
- Pan/Tilt: Slow Pan/Slow Tilt/Auto Pan/Auto Sort/Auto Sequence/Random Pan/Preset/Home/Camera Patrol
- Single-handed control of pan/tilt, zoom, and auto focus functions

In a PS•Data or a WJ-FS616 system

- Switching of Live pictures and Playback/Changing the Multiscreen Picture layout/Electronic Zoom/Sequence
- System Unit Selection

PRECAUTIONS

- **Refer all work related to the installation of this product to qualified service personnel or system installers.**

- **Do not attempt to disassemble the appliance.**

To prevent electric shock, do not remove screws or covers.

There are no user-serviceable parts inside. Contact qualified service personnel for maintenance.

- **Handle the appliance with care.**

Do not strike or shake, as this may damage the appliance.

- **Do not expose the appliance to water or moisture, nor try to operate it in wet areas.**

Take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture may damage the appliance and cause electric shock.

- **Do not use strong or abrasive detergents when cleaning the appliance body.**

Use a dry cloth to clean the appliance when it is dirty.

When the dirt is hard to remove, use a mild detergent and wipe gently.

- **Do not operate the appliance beyond its specified temperature, humidity or power source ratings.**

Do not use in the appliance in an extreme environment where high temperature or high humidity exists.

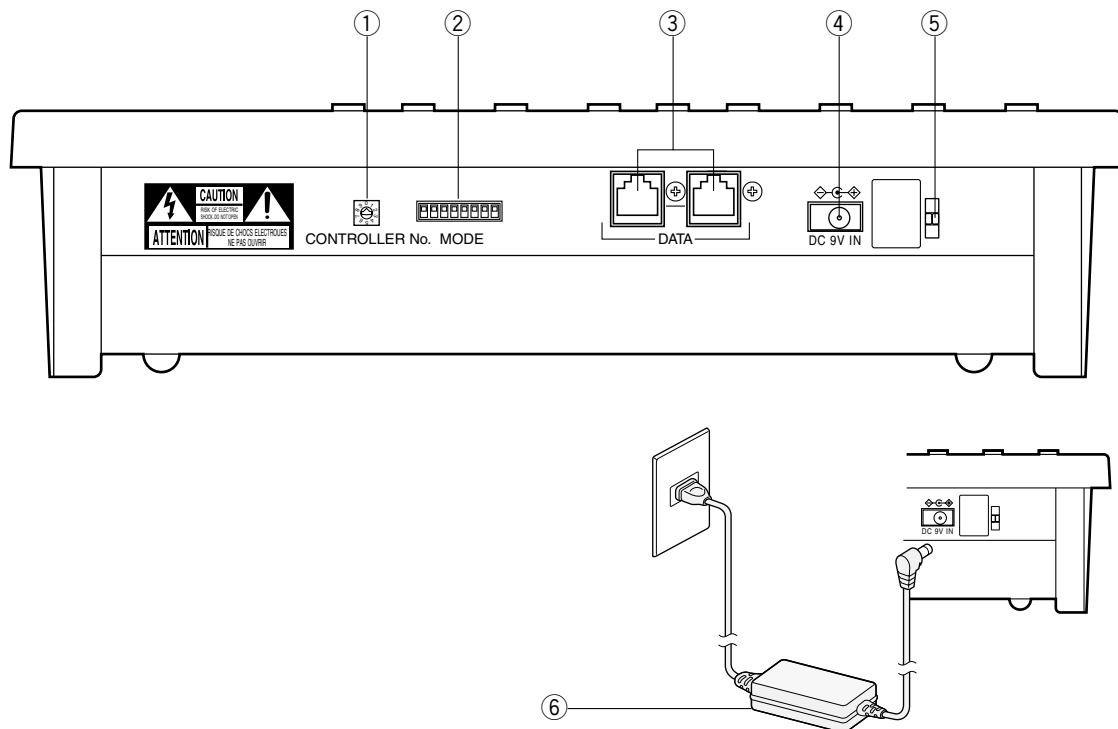
Use the appliance at temperatures within -10°C to $+50^{\circ}\text{C}$ (14°F to 122°F) and a humidity below 90 %. The input power source for this appliance is 220 V to 240 V AC 50 Hz by use of the AC Adapter supplied.

- **Do not use any AC adapter other than the one supplied.**

Be sure to use the supplied power cable. Any cable other than the supplied power cable is not usable. The supplied power cable cannot be used with any other equipment.

MAJOR OPERATING CONTROLS & THEIR FUNCTIONS

■ Rear View & AC Adapter



① **Controller Number Switch (CONTROLLER No.)**

This switch is used to assign a controller number to the System Controller to identify it in a system comprising multiple System Controllers (See page 14). A system may comprise up to four controllers.

② **Mode Selection Switches (MODE)**

The DIP switches are used to set communication parameters for the System Controller.

③ **Data Ports (DATA)**

These ports are used to exchange control data with the connected system units via the supplied RS-485 cable.

④ **DC 9 V Input Jack (DC 9V IN)**

Jack for the DC plug of the supplied AC adapter.

⑤ **Clamp**

The clamp fastens the power cord to the AC adapter.

⑥ **AC Adapter**

Caution:

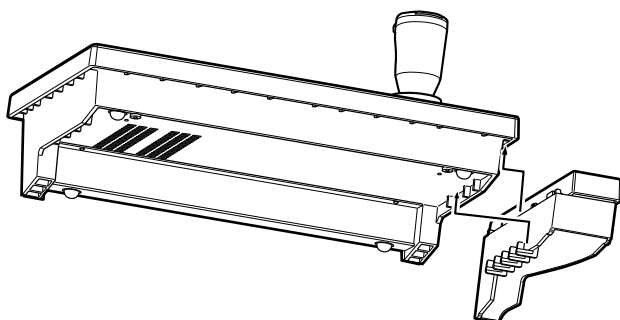
Use only the supplied AC adapter to feed DC 9 V to a System Controller.

Note: Disconnect the plug from the controller before setting the controller number switch or mode selection switch, and reconnect it when finished. The new settings will take effect when the power is turned on.

INSTALLATIONS

■ Palm Rest Mounting

Hook the projections of the palm rest on the system controller.

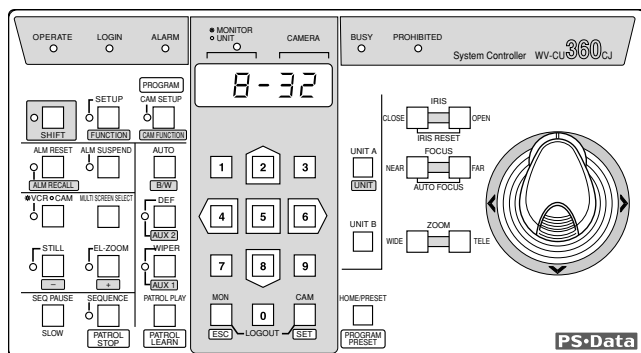


Note: There is no screw fixing. When using the palm rest, place the system controller on a level space.

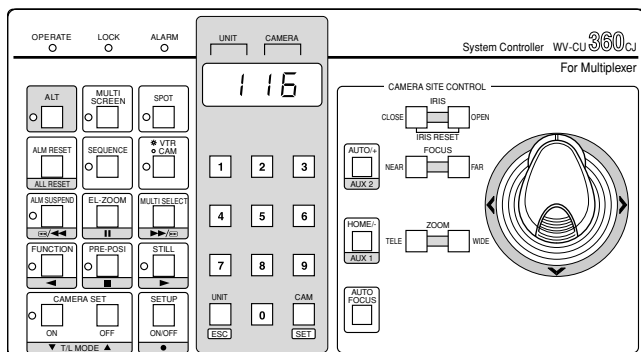
■ Template Mounting

The system controller is provided with four templates including one for PS•Data system that is placed (not taped yet) on the surface of the controller when shipped from the factory.

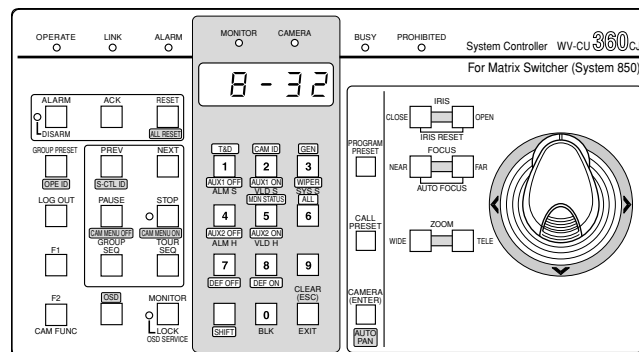
For PS•Data



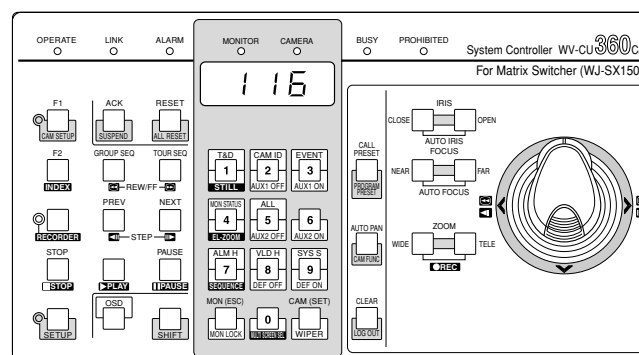
For FS616C



For SX850

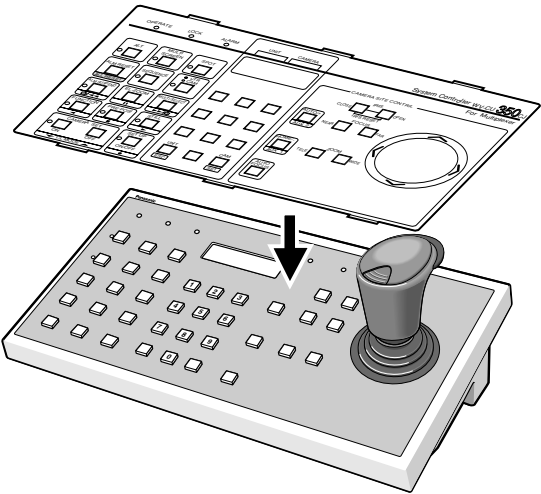


For SX150



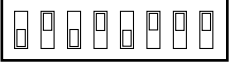
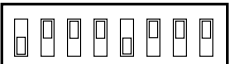
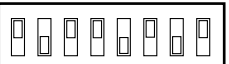
1. Select the correct template for your system.
 - Select the PS•Data template when your system includes any of the following:
 - Video Multiplexer (WJ-FS309/316/409/416)
 - Digital Disk Recorder (WJ-HD100/500A)
 - Data Multiplex Unit (WJ-MP204C)
 - Select the template marked "For Multiplexer" if your system includes a WJ-FS616C Video Multiplexer.
 - Select the template marked "For Matrix Switcher (System SX850)" if your system includes a WJ-SX850 Matrix Switcher.
 - Select the template marked "For Matrix Switcher (WJ-SX150)" if your system includes a WJ-SX150 Matrix Switcher.

2. Peel off the tape, and fix the template in the guide slots on the front panel of the controller.

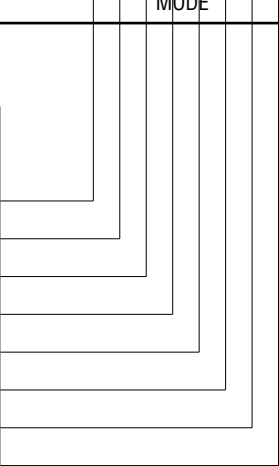


■ Rear Panel Switch Setting (Summary)

An 8-bit DIP switch and a rotary switch mounted on the rear of the controller specify the operation mode and parameters for communication. Switch settings depend on your system configuration. A summary of switch positions is shown below. For detailed information refer to the description of switch settings provided for each system.

System	Controller No. SW	MODE DIP SW
PS•Data	 See page 16 CONTROLLER No.	 OFF ON MODE
WJ-FS616C	 #1 CONTROLLER No.	 OFF ON MODE
WJ-FS616	 #1 CONTROLLER No.	 OFF ON MODE
System 850 WJ-SX850	 #1 CONTROLLER No.	 OFF ON MODE
WJ-SX150	 #1 CONTROLLER No.	 ON MODE

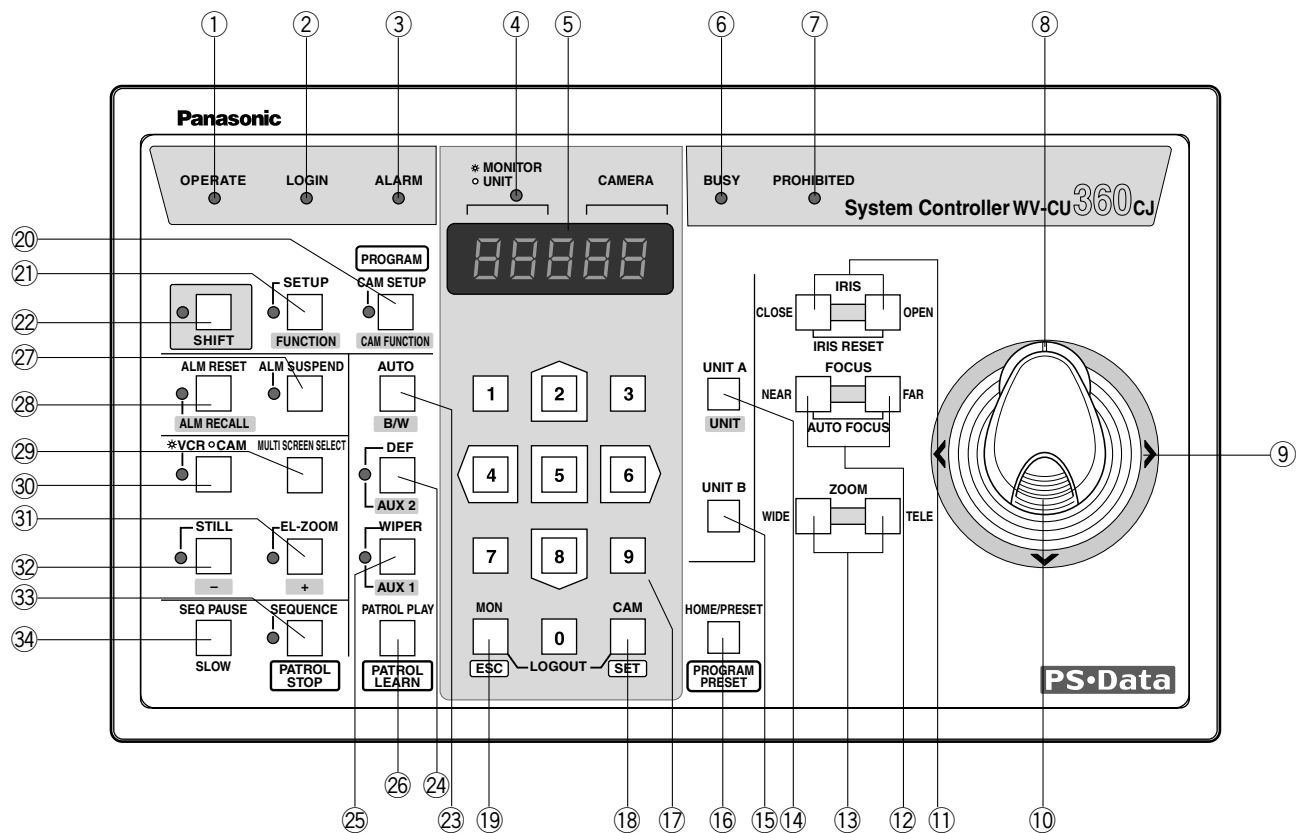
	Function
Bit 1	Operation mode
Bit 2	Operation mode
Bit 3	Operation mode
Bit 4	Reserved
Bit 5	Line termination
Bit 6	Administrator mode
Bit 7	Baud rate selection
Bit 8	Data transmission mode



**For Panasonic Security
Data (PS•Data) Systems**

MAJOR OPERATING CONTROLS & THEIR FUNCTIONS

■ Front View (Template for PS•Data)



① Operate indicator (OPERATE)

Is lit while power is supplied to the System Controller.

② Login indicator (LOGIN)

Lights up when communication is established with PS•Data compatible system units.

③ Alarm indicator (ALARM)

Blinks when an alarm is activated.
Blinking changes to steady light when the alarm is automatically reset.
To turn the indicator off, press the Alarm Reset button.

④ Monitor/Unit indicator (* MONITOR/◦ UNIT)

When this indicator lights up, the monitor number is displayed. When it goes off, the unit address is displayed.

⑤ LED Display

LED display allowing you to confirm the monitor or unit number and the number of the currently controlled camera.
It also displays numeric input, error status, etc.
The monitor or unit number is displayed when initial communication is established.

⑥ Busy indicator (BUSY)

Lights up when you attempt to control a system unit or camera that is already used by a higher priority operator, or when a higher priority operator selects the camera or system unit you are currently operating.
Operations from the System Controller are disabled until this indicator goes off.

⑦ Prohibited indicator (PROHIBITED)

Lights up when an attempt is made to access a function that is prohibited to the operator level.

⑧ Zoom Wheel Controller

This control is used for zooming cameras equipped with the specified lens. Moving the control to the right will zoom in the image. Moving the control to the left will zoom out the image.

⑨ **Joystick Controller**

Used to manually operate the pan/tilt head, or move the cursor in the setup menu on the active monitor screen. The joystick can also be moved in 8 directions.

Holding down the joystick in the desired position will keep the cursor moving continuously in the setup menu. (See page 17.)

▲: Upward
▼: Downward
◀: Left
▶: Right

⑩ **Top button**

Pressing this button will automatically set the lens focus of a specified camera.

⑪ **Iris buttons (IRIS, CLOSE/OPEN)**

Close or open the lens iris of cameras equipped with the specified lens.

When these buttons are pressed simultaneously, the lens iris is reset to the factory default setting.

⑫ **Focus buttons (FOCUS, NEAR/FAR)**

Adjust the lens focus of cameras equipped with the specified lens.

When these buttons are pressed simultaneously, the lens focus is set automatically if the specified camera is used.

⑬ **Zoom buttons (ZOOM, WIDE/TELE)**

Zoom the image in or out if the camera is equipped with the specified lens.

⑭ **Unit A/UNIT button (UNIT A/UNIT)**

Selects a specific system unit in a multiple unit system. To select a unit, press this button after entering the unit number with the numeric button. To confirm a unit number, press this button after pressing the SHIFT button. The selected unit address appears on the LED display. The unit that is assigned to number 1 can be selected by pressing this button.

⑮ **Unit B button (UNIT B)**

Selects a specific system unit in a multiple unit system. To select a unit, press this button after entered the unit number with the numeric button. The selected unit address appears on the LED display. Just pressing this button will select the system unit assigned the number 1.

⑯ **Home/Preset/Program Preset button (HOME/PRESET/PROGRAM PRESET)**

Returns a specific camera to its home position. In combination with the numeric buttons, this button is also used to recall a preset position assigned to a specific camera.

Pressing it while holding down the Program/Camera Setup/Camera Function button will program the preset position.

⑰ **Numeric buttons (0-9)**

These buttons are used for numeric input, such as camera, monitor and unit numbers, and preset positions.

⑱ **Camera/Set button (CAM/SET)**

CAM: Used for camera selection. To select a camera, enter the desired camera number with the numeric buttons, and then press this button.

SET: Executes the currently highlighted setting in the setup menu.

Pressing this button together with the MON/ESC button for approximately 2 seconds will log out from the system.

⑲ **Monitor/Escape button (MON/ESC)**

MON: Used for monitor selection and confirmation. To select a monitor, enter the desired monitor number with the numeric buttons, and then press this button. The selected monitor number appears on the LED display.

To confirm a monitor number, simply press this button.

ESC: Used to escape from the currently highlighted selection and return to the previous menu of the setup menu.

Pressing this button together with the CAM/SET button for approximately 2 seconds will log out from the system.

⑳ **Program/Camera Setup/Camera Function button (PROGRAM/CAM SETUP/CAM FUNCTION)**

Programs camera patrol learning and preset position functions.

Pressing this button for 2 seconds or more will open the camera setup menu. Pressing it in combination with the numeric buttons after pressing the shift button will execute camera functions.

The LED next to the button is lit during the camera setup operation.

㉑ **Setup/Function button (SETUP/FUNCTION)**

Pressing this button for 2 seconds or more will open the setup menu of a system unit.

When the SHIFT indicator is lit, it provides access to the functions of the system unit. Enter a function number with the numeric keys, then press this button.

The LED next to the button is lit during the setup operation.

㉒ **Shift button (SHIFT)**

Shifts the button function between the normal and the shift mode shown in half-tone print under the button on the template. The LED next to the button is lit in the shift mode.

㉓ **Auto Panning/Black and White button (AUTO/B/W)**

Activates the auto panning function of cameras provided with this feature. Pressing this button in the shift mode will change the camera picture from colour to black and white for better viewing in a dark place.

AUTO PAN ON or combination camera function:

Simply press this button, or press numeric button 1 followed by this button.

AUTO SORT ON: Press numeric button 2 followed by this button.

AUTO SEQ ON: Press numeric button 3 followed by this button.

RANDOM PAN ON: Press numeric button 4 followed by this button.

②④ Defroster/Auxiliary 2 button (DEF/AUX 2)

Activates the housing defroster of cameras provided with this feature. Pressing this button in the shift mode will turn on the AUX 2 function controlling accessories connected to the cameras or the system.

The LED next to the button is lit while the defroster or AUX 2 function operates.

②⑤ Wiper/Auxiliary 1 button (WIPER/AUX 1)

Activates the housing wiper of cameras provided with this feature. Pressing this button in the shift mode will turn on the AUX 1 function controlling accessories connected to the cameras or the system.

The LED next to the button is lit while the wiper or AUX 1 function operates.

②⑥ Patrol Play/Patrol Learn button (PATROL PLAY/PATROL LEARN)

Starts the camera patrol play. While holding down the Program/Camera setup/Camera Function button, pressing this button will start to program the camera patrol learning.

②⑦ Alarm Suspend button (ALM SUSPEND)

Suspends or allows the alarm process.

The LED next to the button is lit while the alarm suspension mode operates.

②⑧ Alarm Reset/Alarm Recall button (ALM RESET/ALM RECALL)

Resets system alarm when the alarm function is active. Pressing this button in the SHIFT mode will recall the alarm logs (record of alarms activated in the past). Select a monitor, and then press this button to display the alarm logs on the monitor screen. Pressing this button after pressing the shift button again will cancel the function.

The LED next to the button is lit while Alarm Recall mode is activated.

②⑨ Multiscreen Selection button (MULTI SCREEN SELECT)

Selects the number of segments into which the multiscreen is split on the selected monitor connected to the MULTISCREEN OUT terminal of the Video Multiplexer.

③⑩ VTR/Camera Selection button (* VCR/◦ CAM)

Changes the display on the multiscreen monitor between the live picture of a camera and the playback picture of a recording device. The LED next to the button is lit while VCR is selected.

③⑪ Electronic Zoom/Increment button (EL-ZOOM/+)

Zooms the camera picture or VCR playback picture displayed on the multiscreen monitor.

Pressing this button in the shift mode will move the camera sequence one step forward from the step previously paused while a system unit provided with SEQ PAUSE (e.g., a Video Multiplexer) is selected.

Pressing this button in the shift mode will select the picture of camera with the next higher number for display on the monitor while a system unit connected with cameras (e.g., a Data Multiplex Unit) is selected.

The LED next to the button is lit while Electronic Zoom mode is selected.

③⑫ Still/Decrement button (STILL/-)

Freezes the camera picture or VCR playback picture on the multiscreen monitor.

Pressing this button in the shift mode will move the camera sequence one step backward from the step previously paused while a system unit (e.g., a Video Multiplexer) provided with SEQ PAUSE is selected.

Pressing this button in the shift mode will select the picture of the camera with the next lower number for display on the monitor while a system unit connected with cameras (e.g., a Data Multiplex Unit) is selected.

The LED next to the button is lit while a still picture is displayed.

③⑬ Sequence/Patrol Stop button (SEQUENCE/PATROL STOP)

Runs or stops a preset sequence in which a series of camera pictures is displayed in succession on the monitor screen for the specified duration. Pressing it while holding down the Program/Camera Setup/Camera Function button will stop programming of camera patrol learning.

The LED next to the button is lit while a sequence runs.

③⑭ Sequence Pause/Slow button (SEQ PAUSE/SLOW)

Pauses a sequence running on the selected monitor. In this mode, a series of camera pictures is displayed in pause on the monitor screen for the specified duration. Pressing this button while moving the joystick controller will decrease the pan/tilt speed.

INSTALLATIONS (PS•Data)

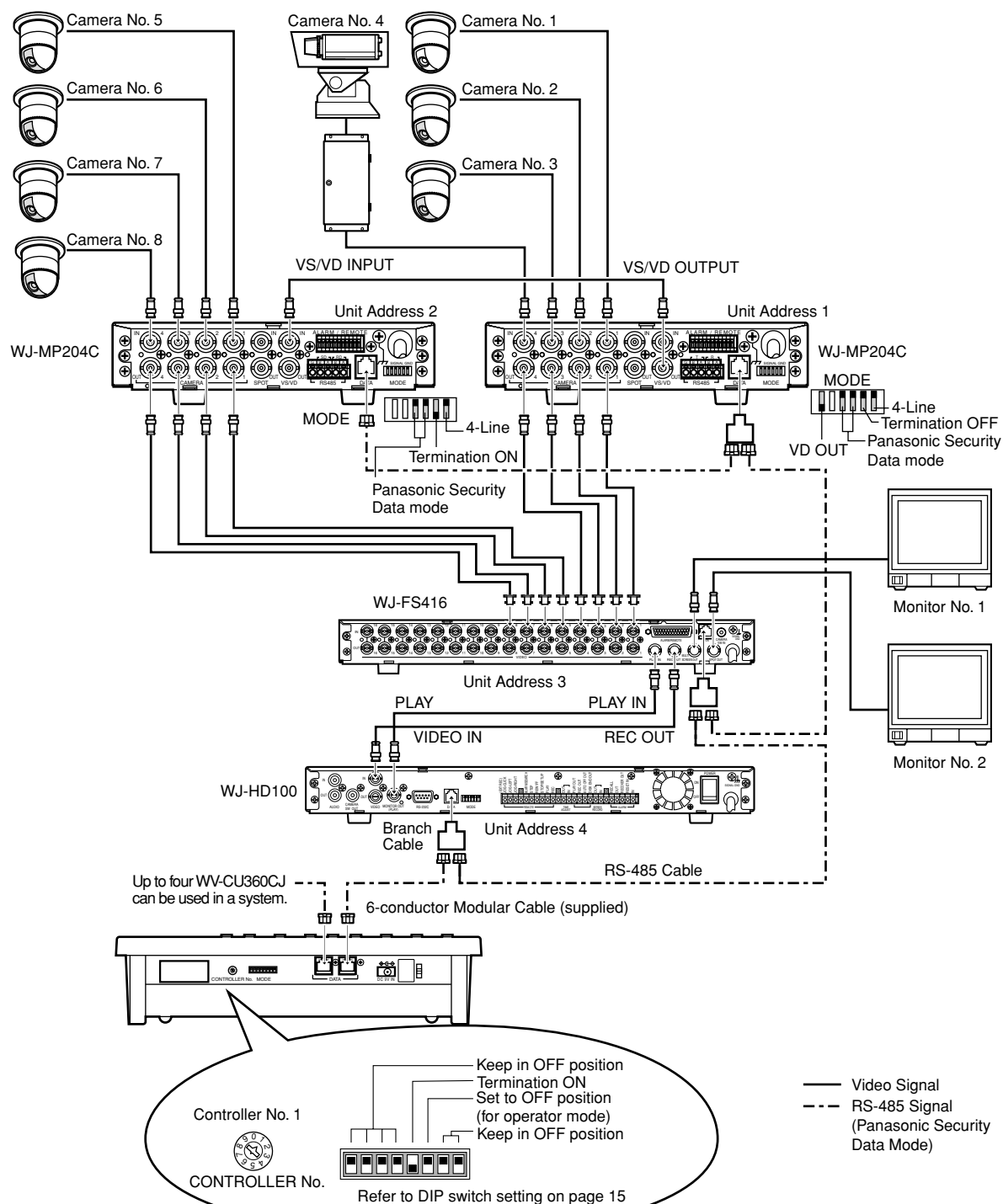
CAUTION

The installation should be made by qualified service personnel or system installers according to the following instructions.

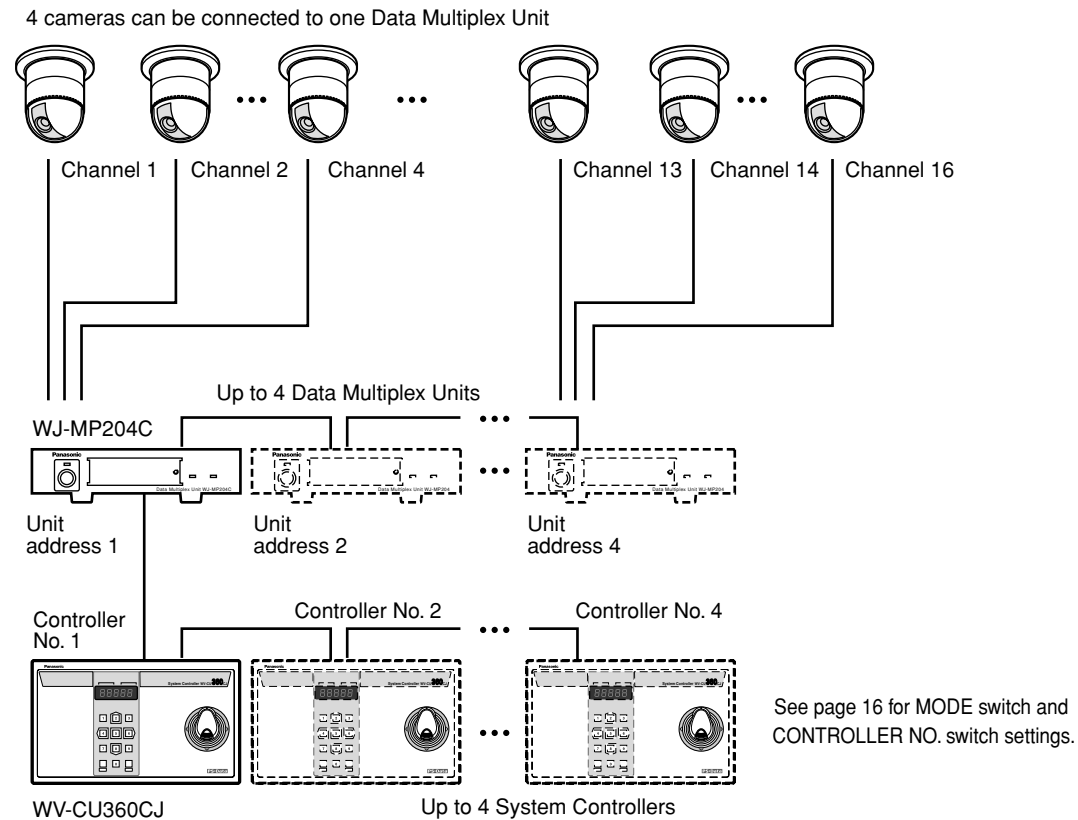
■ System Connections

● Connection Example

Example 1 shows 8 cameras connected to 2 Data Multiplex Units (WJ-MP204C), to a Video Multiplexer (e.g., WJ-FS416) and a Digital Disk Recorder (e.g., WJ-HD100). The WV-CU360CJ controls these system units through RS-485 communication while pictures are viewed on the monitors.



Example 2 shows 4 Data Multiplex Units connected with 16 combination cameras, and 4 System Controllers.

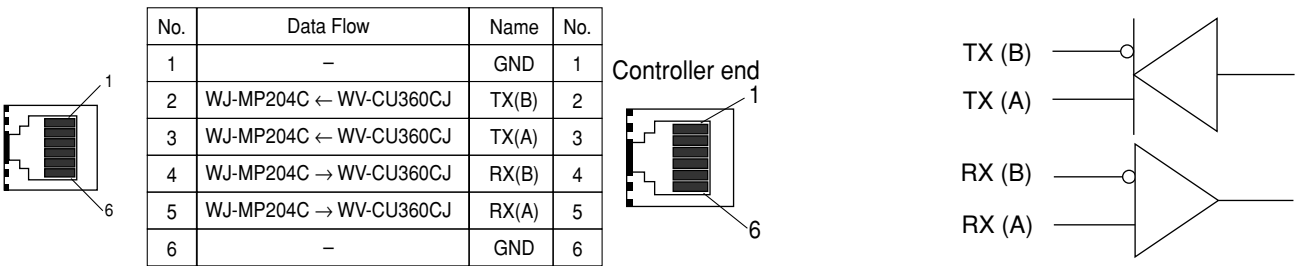


● DATA Port Connection (PS•Data)

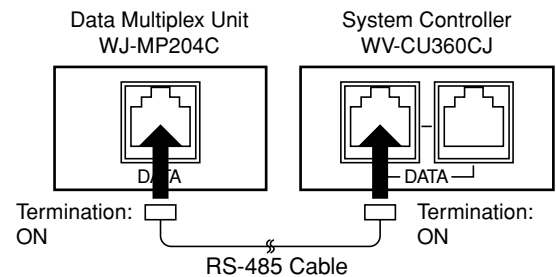
Data ports are connected with RS-485 cables among devices using the PS•Data protocol as follows.

Note: When using cables other than those supplied, make sure to use shielded 4-wire twisted pair cable suitable for RS-485 communication.

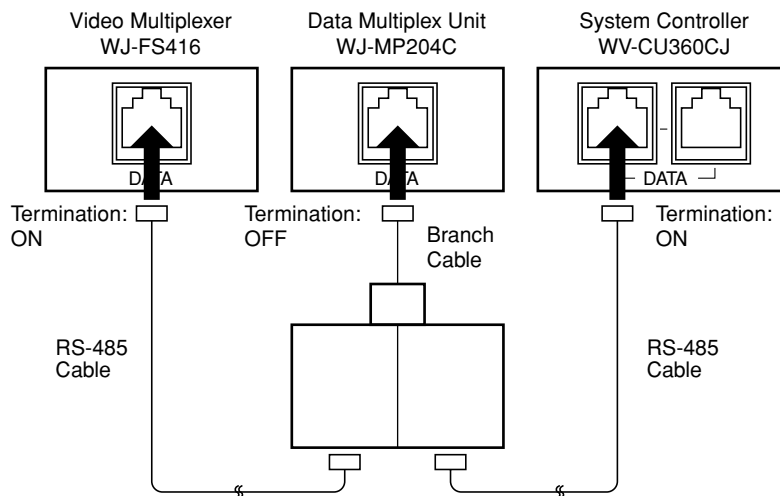
• Internal Diagram



• Basic Connection



• **Daisy Chain Connection**



■ **DIP Switch Setting (PS•Data)**

An 8-bit DIP switch mounted on the rear panel specifies the communication mode, etc. The default position is marked with an asterisk *.

	Function	SW position	
		OFF	ON
Bit 1	Operation mode	Fixed to OFF*	Not used
Bit 2	Operation mode	Fixed to OFF*	Not used
Bit 3	Operation mode	Fixed to OFF*	Not used
Bit 4	Reserved	Fixed to OFF*	Not used
Bit 5	Line termination	Off	On*
Bit 6	Administrator mode	Off*	On
Bit 7	Baud rate selection	Fixed to OFF*	Not used
Bit 8	Data transmission mode	Fixed to OFF*	Not used

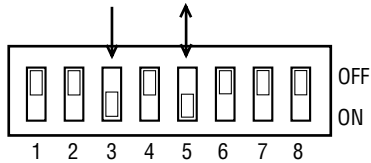
1. Remove the DC plug from the rear of the controller.
2. Set the switch referring to the table.
3. Connect the DC plug to the controller.

Notes:

- Bit 4 is reserved.
- Bit 5 opens or terminates the communication chain. The switch should be set to OFF when the controller is located in an intermediate position.
- Bit 6 specifies the operation mode, Operator or Administrator. The switch should be set to ON when setting up the controller. Remember to set this switch to the OFF position after completion of the setup operation.
- Bits 7 and 8 are used in the OFF position.

● MODE Switch Setting for System Example 2

The MODE switch needs to be set prior to operating a system connected as shown in Example 2.



Bit 3 should be set to OFF.

Bit 5 should be set to OFF when the controller is placed in an intermediate position, or set to ON when it is connected at the chain end.

■ Controller Number Setting (PS•Data)

A 10-position rotary switches provided on the rear for specifying the unit number of the WV-CU360CJ controller in a PS•Data system.

1. Remove the DC plug from the rear of the controller.
2. Use a screw driver to rotate the switch so that the arrow comes to the number you wish.



CONTROLLER No.

3. Connect the DC plug to the controller.

Controller No. Switch of WV-CU360CJ	Controller No.
0	Reserved
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	Reserved

Notes:

- Set the switch to #1 when a single controller is used in the system.
- Specify a unique number for each controller when connecting multiple controllers in the system. One controller within the multiple controller system must be assigned the number 1.
- Positions #0 and #9 are reserved and cannot be used.

CONTROLLER SETUP PROCEDURES (PS•Data)

To display the setup menus for the WV-CU360CJ System Controller on the LED display, set the MODE switch and power up the controller as described below.

■ Prior to Setup

Do the following before entering the setup mode.

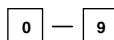
1. Confirm that all necessary connections and switch settings are complete.
2. With the power turned off, move bit #6 of the MODE switch on the rear to ON position.
3. Supply power to the controller.
4. Turn on the power of cameras and other system units.
5. The LCD displays [SEtUP]. The controller is ready to enter the setup mode.

When setup is completed, restore the switch to its original position.

1. With the power turned off, move bit #6 of the MODE switch on the rear to OFF position.
2. Supply power to the controller.

■ Buttons and Controls Used for Setup

The following buttons and joystick operations are used in the setup operation. There are three ways to select a parameter, but the following pages only describe the selection by use of the joystick. Instead of operating the joystick, you can enter the number enclosed in brackets with the numeric keys or press the plus and minus buttons.



Numeric buttons: To select a parameter
To enter a password or parameter



CAM/SET button: To confirm the selected menu, selected parameter or entered password
To enter a submenu



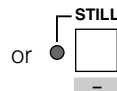
MON/ESC button: To return to the previous menu



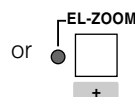
Up: To select a setup menu



Down: To select a setup menu



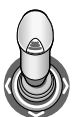
Left: To decrease the parameter



Right: To increase the parameter

■ Setup Menus

There are 12 setup menus as shown below.

Menu Selection	Setup Menus				Parameter Selection (default*)
	LED Display	Reading	Function		
No OK	SETUP	Setup	Initial Display	CAM [] → SET	LED prompts you to enter a password
	• • • • • blinking	Administrator Password Prompt	Authorization		Enter a 5-digit password, press (12345*) CAM [] SET
Move Joystick up and down to select  ↑  ↓	SPEED	Speed	Baud Rate (bps)	Press twice CAM [] → SET	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
	Prty	Parity	Parity Check	MON [] ← ESC	(1) None* (2) Even
	Wait	Wait	Wait Time (ms)		(1) Off* (2) 100 (3) 200 (4) 400 (5) 1 000
	CU-gr	Controller Unit Group			Leave as it is
	SU-gr	System Unit Group			Leave as it is
	UA-no	Unit A Number	Unit Assignment to Button A	CAM [] → SET	
	Ub-no	Unit B Number	Unit Assignment to Button B		
	USrP	User Password		MON [] ← ESC	Enter a 5-digit number, press (12345*) CAM [] SET
	SUSrP	Super User Password	Administrator Password		Enter a 5-digit number, press (12345*) CAM [] SET
	USr-C	User Certification	User Authorization		(1) Off (2) On*
	CLEAN	Cleaning	Camera Cleaning		
	Utest	Unit Test	Unit Connection Test		

● Administrator Authorization

1. Press the CAM/SET button while [SEtUP] is displayed. The [- - - -] prompt appears.
2. Enter a password with the numeric buttons, then press the CAM/SET button.
The default setting is [12345].
3. [SPEED] appears when the right password is entered. If password entry failed, the menu returns to [- - - -].

Notes:

- We recommend that you register a new password different from "12345" in [SUSrP], and note down the registered password for future reference.
- Powering up the controller while holding down numeric buttons 2, 4 and 5 simultaneously will reset the password to "12345". Remember that this procedure also resets all other menu parameters to the default settings.

● Baud Rate

In this menu, the communication speed (bps: bits per second) is selected. The communication speed should match that of the other units connected in the communication chain.

1. Display [SPEED] and press the CAM/SET button twice.
2. Select a parameter entering a bracket-enclosed number, e.g., (3), moving the joystick right and left, or pressing the [+] and [-] button.
The default setting is 19 200 bps.

- (1) 2 400: 2 400 bps
- (2) 4 800: 4 800 bps
- (3) 9 600: 9 600 bps
- (4) 19 200: 19 200 bps

Note: Selecting a slower rate (e.g., 2 400 bps) will delay the response time (e.g., the time until an activated alarm is reset).

3. Press the CAM/SET button to validate the selection.
4. Press the ESC button to go back to the previous menu.

● Parity

In this menu, the parity check mode is selected.

1. Display [PrtY] and press the CAM/SET button twice.
2. Select a parameter with the joystick.
The default setting is None.

- n: None
- E: Even parity

3. Press the CAM/SET button to validate the selection.
4. Press the ESC button to go back to the previous menu.

● Wait Time

In this menu a wait time is selected. The controller will retransmit data when there is no response during the specified wait time.

1. Display [LJAit] and press the CAM/SET button twice.
2. Select a parameter with the joystick.
The default setting is Off.

- (1) OFF: Off, no retransmission of data
- (2) 100: 100 ms
- (3) 200: 200 ms
- (4) 400: 400 ms
- (5) 500: 500 ms
- (6) 1 000: 1 s

3. Press the CAM/SET button to validate the selection.
4. Press the ESC button to go back to the previous menu.

The following two menus should be maintained in the default condition.

● Controller Unit-Group Address

[CU-gr] appears on the Setup menu, but leave the default as it is.

● System Unit-Group Address

[SU-gr] appears on the Setup menu, but leave the default as it is.

● Unit A button Assignment

In this menu, a maximum of 9 system units is assigned to numeric buttons 1-9 regardless of unit address.

This is to avoid double-digit unit addresses which can occur in a large system with many units connected and could confuse operators.

A frequently used system unit can be easily selected in normal operation by pressing one numeric button and then the UNIT A button.

1. Display [UA-no] and press the CAM/SET button. The LED displays [A1-01] while "1" following A blinks. The first 2 digits from A1 to A9, "A numbers", stand for numeric buttons from 1 to 9 to be pressed prior to UNIT A button in normal operation. The next 2 digits are the unit address assigned in the following procedures. The default setting is shown below.

A1-01
A2-02
A3-03
A1-04
A5-05
A6-06
A7-07
A8-08
A9-09

2. Select an "A number" entering a number from 1 to 9, then press the CAM/SET button. The LED displays "A number" A3 when numeric button 3 is entered for example.

Available A numbers: 1-9

3. Press the CAM/SET button to validate the selection. The LED displays [A3-03] while the next two digits are blinking.
4. Enter a 2-digit unit address that you wish to assign to the "A number" (e.g., A3), then press the CAM/SET button. The LED displays [A3-99], for example, when you enter unit address 99.

Available addresses: 01-99

5. Press the CAM/SET button to validate the selection. Repeat above the steps 2 to 5 as needed.
6. Press the ESC button to go back to the previous menu.

● Unit B button Assignment

The UNIT B button is set up in the same way as the UNIT A button for use in normal operation. Refer to the above description for Unit A button Assignment.

● User Password

In this menu, a 5-digit password for user authorization is registered.

1. Display [UsrP] and press the CAM/SET button. The LED displays the registered password.
2. Enter a 5-digit password with the numeric buttons. The default setting is [12345].

Available password digits: 00000-99999

3. Press the CAM/SET button to validate the selection.
4. Press the ESC button to go back to the previous menu.

● Administrator Password

In this menu, a 5-digit password for administrator certification is registered.

1. Display [SUsrP] and press the CAM/SET button. The LED displays the registered password.
2. Enter a 5-digit password with the numeric buttons. The default setting is [12345].

Available password digits: 00000-99999

3. Press the CAM/SET button to validate the selection.
4. Press the ESC button to go back to the previous menu.

● User Password Certification

In this menu, password certification in normal operation is enabled or disabled.

1. Display [USr-C] and press the CAM/SET button. The LED displays [UC-on] or [UC-oF].
2. Select On or Off with the joystick controller. The default setting is On.

on: Password certification enabled.
oF: Auto log-in

3. Press the CAM/SET button to confirm the selection.
4. Press the ESC button to go back to the previous menu.

● Camera Cleaning

This menu is for specifying the order in which combination cameras connected to the system are cleaned.

The camera cleaning function causes cleaning of the built-in slip rings that conduct electric signals while moving the pan/tilt head. All combination cameras connected to the system are cleaned in the order specified here. Picture viewing is disabled during the cleaning process.

1. Display [CLEAn] and press the CAM/SET button. The LED displays [no-01].
2. Use the numeric buttons to enter the number of the camera where cleaning is to start.
The default setting is no-01.

Available camera numbers: 01-199

3. Press the CAM/SET button to start cleaning.
Two animated digits appear in the left part of the LCD while the digits at right display the number of the camera being cleaned.
When cleaning is finished, the number of the last camera cleaned is displayed without animation.
4. Press the ESC button to go back to the previous menu.

● Unit Connection Test

This menu is for specifying the order in which data communication between system units is tested prior to operating the system as a whole.

1. Display [UtESt] and press the CAM/SET button. The LED displays [01-on] or [01-oF].
2. Enter the 2-digit unit number you wish to start with.
3. Press the CAM/SET button to start the test.
The digits in the left part of the LCD display the unit number under test while 2 animated digits appear at right.
To stop the test in progress, press the CAM/SET button.
When testing is finished, the number of the last unit tested is displayed without animation.
4. Press the CAM/SET button. Enter a 2-digit number(e.g., 01), then press the CAM/SET button.
You can now confirm the test results of a specific unit.
When Off is displayed, check connections, switch settings, etc., of the system unit.

01-on: On, unit 01 is connected.

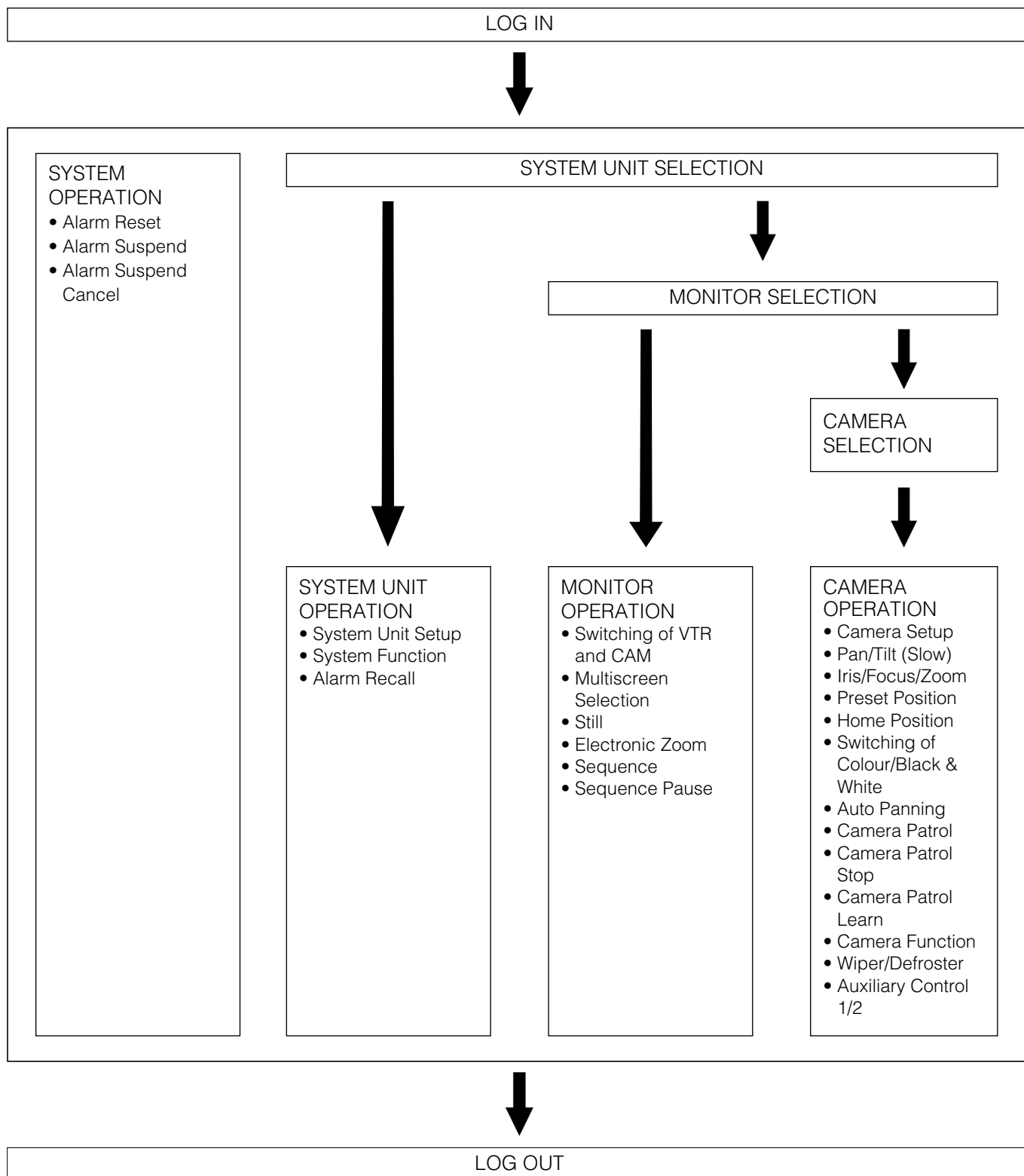
01-oF: Off, unit 01 is disconnected.

5. Press the ESC button to go back to the previous menu.

OPERATING PROCEDURES (PS•Data)

■ Basic Operating Flow

The operation starts with a log-in procedure. It proceeds to system unit selection, monitor selection and camera selection. Alarm operations for the system such as alarm reset, suspension may be implemented. The operation ends with a log-out procedure.



■ Log-in/Log-out

● Log-in

Right after powering up, the controller will be operable without password entry, provided user password certification is set to Off in the setup menu.

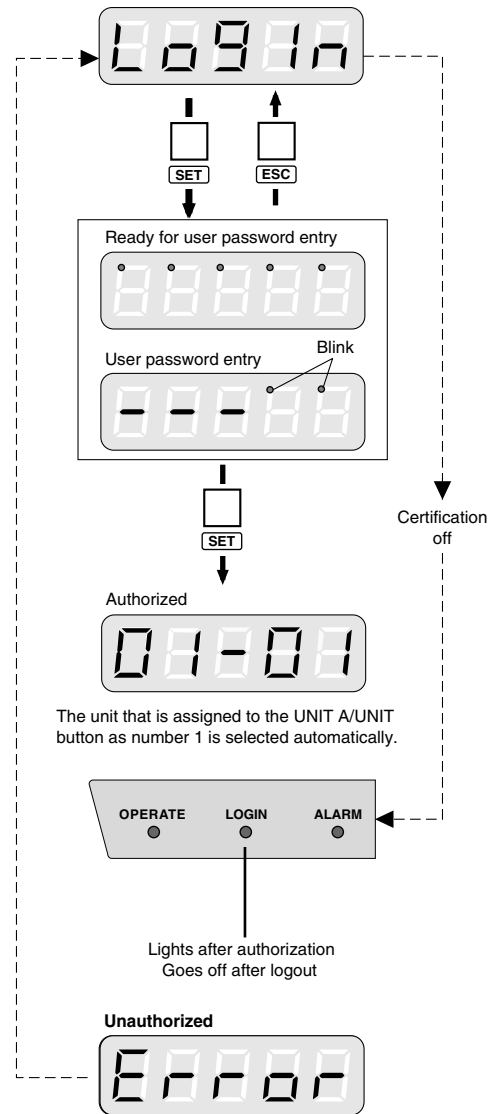
When set to On, you will be prompted to enter your registered password. The default password is "12345", but you need to remember the password assigned to you by your system administrator.

1. Insert the DC plug into the DC 9 V IN jack and connect the AC adapter to an AC outlet.
2. The controller number, software versions and [LogIn] appear in that order on the LED display. The LOGIN indicator lights up. The controller is now operable unless password certification is activated. If it is not activated, proceed as follows.
3. Press the CAM/SET button.
4. Enter a 5-digit user password with the numeric buttons. The initial factory setting is [12345].
5. Press the CAM/SET button.
6. If password entry for user authorization has been successful, the LOGIN indicator lights up. The unit assigned to the UNIT A/UNIT button as number 1 is selected automatically. If password entry has failed, [Error] appears on the display. The display returns to [LogIn].

● Log-out

1. Press the MON/ESC and CAM/SET buttons for about 2 seconds simultaneously.
2. [LogIn] appears on the display and the LOGIN indicator goes off.
3. Disconnect the DC plug from the controller, and remove the AC adapter from the AC outlet.

Note: If the power is not turned off after logout, the alarm indicator and alarm suspend indicator will display the same status as in normal operation.

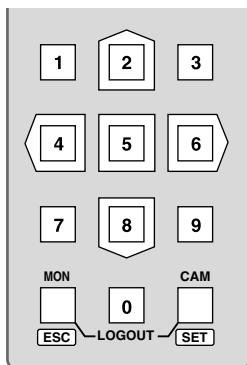


■ System Unit Selection

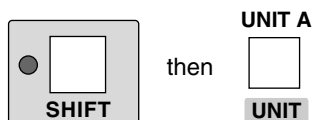
Connected system units can be selected either by their unit number (01-99) or by a single-digit number (1-9) assigned to the UNIT A or UNIT B button.

● Selecting with Unit Number

1. Enter a unit number (01-99) with the numeric buttons.



2. Press the **SHIFT** button to turn the shift indicator on, then press the **UNIT A/UNIT** button.



The selected unit number appears in the unit section of the LED display.

The selected camera number appears in the camera section of the LED display.

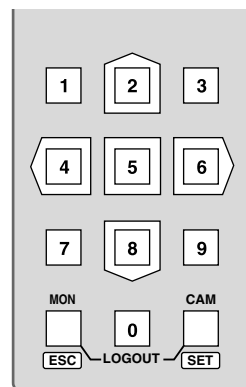
Notes:

- To confirm the selected unit number when the monitor number appears in the unit section of the LED display, take procedure 2 or press MON/ESC button.
- If no unit is connected, [Err] appears a few seconds after unit selection. In such a case, confirm the unit address and repeat the above procedure.
- If the unit address of a system unit is unknown, consult your system administrator.
- When multiple system units such as Data Multiplex Unit are connected to the System Controller and the UNIT A or UNIT B button is pressed, the camera number on the controller's LED display will not agree with the camera picture on the monitor. In this case, select the monitor and camera as described on the next page.

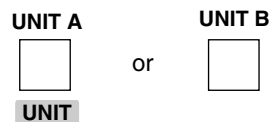
● Selecting with UNIT A/UNIT B Button

The unit numbers (01-99) of some frequently used units can be assigned to numeric buttons 1-9 in the setup. Units can be divided in two groups, one assigned to the UNIT A and the other to the UNIT B button. A frequently used system unit can be easily selected by pressing one numeric button and then the UNIT A or UNIT B button.

1. Enter a single digit number (1-9).
Omit this step when you wish to select unit number "1", as this unit is selected by default.



2. Press the **UNIT A** or **UNIT B** button while the SHIFT indicator is off.



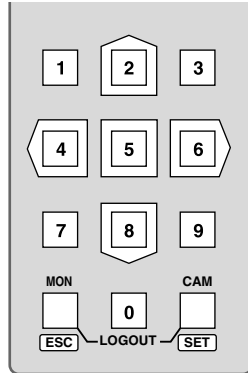
The selected unit address appears in the unit section of the LED display.

The selected camera number appears in the camera section of the LED display.

■ Monitor Selection

A monitor is selected when multiple monitors are connected to a system unit (e.g., a Video Multiplexer) to control such functions as multiscreen display and electronic zoom.

1. Select the system unit connected to the monitor you wish to control.
2. Enter a monitor number using the numeric buttons.



3. Press the **MON/ESC** button.



The selected monitor number appears in the monitor section of the LED display.

The selected camera number appears in the camera section of the LED display.

The monitor is now ready for control from the system controller.

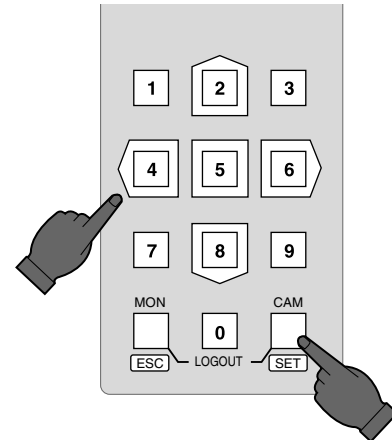
Notes:

- To confirm the selected monitor number, simply take procedure 3 when the unit address appears in the monitor section of the LED display.
- Each time the MON/ESC button is pressed, the unit number and monitor number are displayed alternately on the LED.
- The setting is invalid if the unit in which the monitor number has been set is not programmed.
- In the above case, repeat the same procedure after confirming the monitor number. If you do not know the monitor number, consult the administrator.
- When [--] appears in the monitor section of the LED display, the selected system unit is not compatible with the monitor selection.
- For further information, refer to the Operating Instructions for the system unit concerned.

■ Camera Selection

One of the cameras connected to the system unit is selected.

1. Select a system unit connected to the camera whose picture you wish to view.
2. Enter a camera number using the numeric buttons.
The entered camera number appears on the LED display.
3. Press the **CAM/SET** button.



Note: [--] appears in the camera section of the LED display when an alarm is activated, when the multi-screen is displayed, or when a sequence mode is running.

The following functions are available after selecting a camera.

- Pan/tilt
- Focus
- Zoom
- Iris
- Defroster ON/OFF (camera housing)
- Wiper ON/OFF (camera housing)
- Preset Position (Combination Camera)
- Home position (Combination Camera)
- Switching between colour and B/W picture (Combination Camera)
- Auto pan (Combination Camera)
- Patrol Learn function (Combination Camera)
- Camera functions (Combination Camera)

The selected camera number can be incremented or decremented by one if the system unit is equipped with the camera switching feature.

1. Press the **SHIFT** button to turn the shift indicator on.
2. Press the **EL-ZOOM/+** button to increment or the **STILL/-** button to decrement the camera number.

■ Camera Control

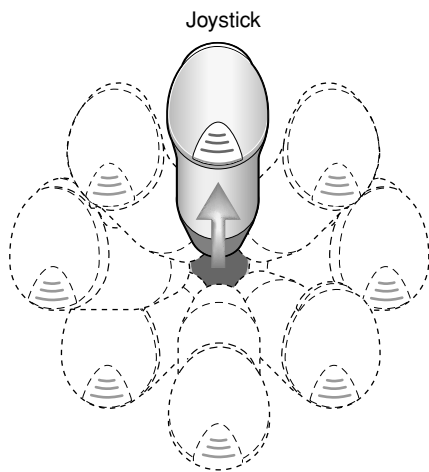
Cameras and their peripherals are controlled from the WV-CU360CJ as follows. Some of the descriptions may not be applicable if they refer to devices not equipped in your system.

The operating procedures on the following pages assume that you have selected a system unit and a monitor.

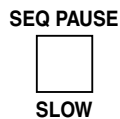
● Pan/Tilt Control

Proceed as follows to control a combination camera or an ordinary camera mounted on a pan/tilt head.

1. Move the pan/tilt head in the desired direction with the joystick controller.



2. To slowly move the pan/tilt head, move the joystick while holding down the **SLOW** button.



● Lens Control

This allows you to control a motorized lens.

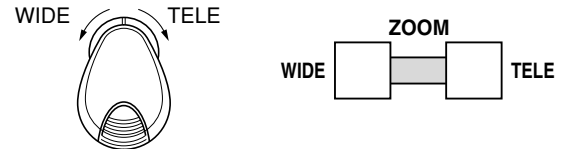
1. If you are using a camera with an auto focus feature, you can set the camera's lens focus automatically by pressing the top button on the joystick controller. You can also adjust the lens focus automatically by pressing the **FOCUS NEAR** and **FOCUS FAR** buttons simultaneously.
- If you are using a camera without an auto focus feature, adjust the focus manually by pressing the **FOCUS NEAR** or **FOCUS FAR** button while watching the monitor.



2. You can set a specified camera's lens zoom automatically by moving the zoom wheel controller on the joystick controller.

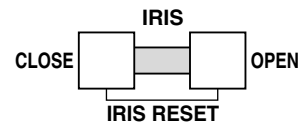
Move the wheel controller to right to zoom in the image. Move the wheel controller to left to zoom out the image. You can also set the zoom by pressing the **ZOOM TELE/WIDE** button.

Press the **ZOOM TELE** button to optically bring the object closer, or press the **ZOOM WIDE** button to optically widen the scene.



3. Press the **IRIS CLOSE** button to close the iris, or the **IRIS OPEN** button to open the iris.

If the **IRIS CLOSE** and **IRIS OPEN** buttons are pressed simultaneously, the iris is reset to the default.



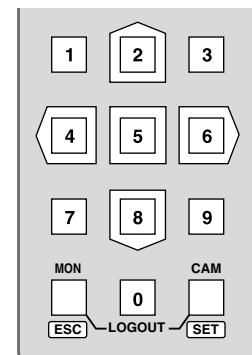
● Home/Preset Position

The camera moves to the preset position or back to the home position, and the picture of the camera in that position appears on the monitor.

1. Press the **HOME/PRESET** button to move the camera back to the home position.



2. Select a preset position number using the numeric buttons, then press the **HOME/PRESET** button to move the camera to the position.



● Combination Camera Shortcuts

The shortcuts listed below are available for controlling combination cameras. For more details, refer to the Operating Instructions included with the camera.

Function	Key	Function	Key
Selecting a PRESET position	From #1 to #64	EL-ZOOM	
#1	[1] + [CAM FUNC]	On	[9] + [8] + [CAM FUNC]
#10	[1] + [0] + [CAM FUNC]	Off	[9] + [9] + [CAM FUNC]
#64	[6] + [4] + [CAM FUNC]	RESTART	
AUTO PAN		Begin	[1] + [0] + [0] + [CAM FUNC]
ON	[6] + [5] + [CAM FUNC]	Memorize PRESET	From #1 to #64**
OFF	[6] + [6] + [CAM FUNC]	Position #1	[1] + [0] + [1] + [CAM FUNC]
Speed Up	[6] + [7] + [CAM FUNC]	Position #10	[1] + [1] + [0] + [CAM FUNC]
Speed Down	[6] + [8] + [CAM FUNC]	Position #64	[1] + [6] + [4] + [CAM FUNC]
Setting Start Point	[6] + [9] + [CAM FUNC]	PATROL	
Setting End Point	[7] + [0] + [CAM FUNC]	PLAY	[1] + [6] + [5] + [CAM FUNC]
Setting PAN Reverse	[7] + [4] + [CAM FUNC]	STOP	[1] + [6] + [6] + [CAM FUNC]
AUTO MODE		LEARN(Start)	[1] + [6] + [7] + [CAM FUNC]
MODE Off	[7] + [1] + [CAM FUNC]	IRIS	
SEQ On	[7] + [2] + [CAM FUNC]	Open	[1] + [6] + [9] + [CAM FUNC]
SORT On	[7] + [3] + [CAM FUNC]	Close	[1] + [7] + [0] + [CAM FUNC]
ENDLESS PAN		EL-SHUTTER	
On	[7] + [6] + [CAM FUNC]	On	[1] + [7] + [1] + [CAM FUNC]
Off	[7] + [7] + [CAM FUNC]	Off	[1] + [7] + [2] + [CAM FUNC]
DIGITAL FLIP CS854A		Speed Up	[1] + [7] + [3] + [CAM FUNC]
On	[7] + [8] + [CAM FUNC]	Speed Down	[1] + [7] + [4] + [CAM FUNC]
Off	[7] + [9] + [CAM FUNC]	AGC	
PROP. PAN/TILT CS854A		On	[1] + [7] + [5] + [CAM FUNC]
On	[8] + [0] + [CAM FUNC]	Off	[1] + [7] + [6] + [CAM FUNC]
Off	[8] + [1] + [CAM FUNC]	SENS UP CS854A	
SUPER-D2		On	[1] + [7] + [7] + [CAM FUNC]
On	[8] + [4] + [CAM FUNC]	Off	[1] + [7] + [8] + [CAM FUNC]
Off	[8] + [5] + [CAM FUNC]	Up	[1] + [7] + [9] + [CAM FUNC]
AUTO FOCUS		Down	[1] + [8] + [0] + [CAM FUNC]
STOP AF On*	[8] + [6] + [CAM FUNC]	SENS UP AUTO CS854A	
STOP AF Off*	[8] + [7] + [CAM FUNC]	On	[1] + [8] + [1] + [CAM FUNC]
AF On (Activate)	[8] + [8] + [CAM FUNC]	Off	[1] + [8] + [2] + [CAM FUNC]
HOME POSITION		Up	[1] + [8] + [3] + [CAM FUNC]
Move to HOME CS854A	[8] + [9] + [CAM FUNC]	Down	[1] + [8] + [4] + [CAM FUNC]
B/W or C/L		LL SYNC phase	
B/W On*	[9] + [0] + [CAM FUNC]	INC	[1] + [8] + [5] + [CAM FUNC]
B/W Off*	[9] + [1] + [CAM FUNC]	DEC	[1] + [8] + [6] + [CAM FUNC]
B/W AUTO*	[9] + [2] + [CAM FUNC]	PAN	
CAMERA ID		180° turn	[1] + [8] + [7] + [CAM FUNC]
On	[9] + [3] + [CAM FUNC]	CLEANING	
Off	[9] + [4] + [CAM FUNC]	On	[1] + [8] + [8] + [CAM FUNC]
AREA TITLE CS854A		Off	[1] + [8] + [9] + [CAM FUNC]
NESW On	[9] + [5] + [CAM FUNC]	BW SW AUTO CS854A	
USER On	[9] + [6] + [CAM FUNC]	30 sec.	[1] + [9] + [0] + [CAM FUNC]
TITLE Off	[9] + [7] + [CAM FUNC]	60 sec.	[1] + [9] + [1] + [CAM FUNC]
		300 sec.	[1] + [9] + [2] + [CAM FUNC]
		600 sec.	[1] + [9] + [3] + [CAM FUNC]

Notes:

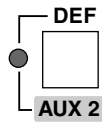
- Shortcut operations marked with * will change parameter settings only. Actual operation takes place when the conditions for the changed settings are met.
- When entering shortcuts marked with **, "NO REGS. ; FLIP ON" may appear on the monitor. Re-enter the shortcut.
- Shortcuts may be ignored while PAN/TILT, ZOOM or FOCUS is in operation.
- PATROL LEARN saves only [1] through [6]+[4], [1]+[6]+[9] and [1]+[7]+[0] in the memory.
- PATROL PLAY stops when a shortcut other than [1]+[6]+[9] or [1]+[7]+[0] is entered.

● Housing/AUX Control

When your system includes a camera housing, the defroster and wiper equipped in it are controlled. When a Receiver is installed in the system, an auxiliary device connected to it such as a buzzer or lamp will be also controlled.

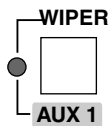
● Defroster

Press the **DEF/AUX 2** button to enable or disable defroster operation for the selected camera. The **DEF/AUX 2** indicator next to the button is lit while it is in operation.



● Wiper

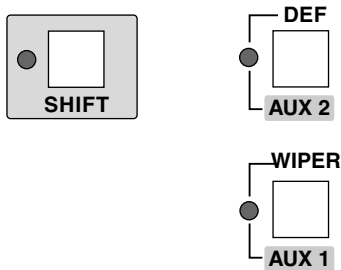
Press the **WIPER/AUX 1** button to enable or disable wiper operation for the selected camera. The **WIPER/AUX 1** indicator next to the button is lit while it is in operation.



Note: To prevent early wiper wear, be sure to turn off the wiper whenever it is not needed, or before selecting another camera for viewing.

● Auxiliary 1/2

1. Press the **SHIFT** button to turn the SHIFT indicator on.
2. Press the **WIPER/AUX 1** or **DEF/AUX 2** button to enable or disable the auxiliary function for the selected camera. The respective indicator next to the button is lit while it is in operation.



Note: Auxiliary control may be ignored while zooming, focusing or panning/tilting is in operation.

■ Data Multiplex Unit Control

When more than one Data Multiplex Unit are connected with the controller as shown in System Connection Example 2 on page 14, you can select a camera directly with the camera number, without typing a system unit address.

● Setting

Camera numbers are specified by the UNIT switch or in the setup menu for the WJ-MP204C.

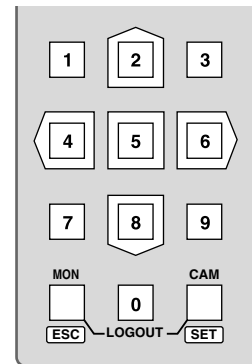
For further details, refer to the manual included with the Data Multiplex Unit.

Unit Address of WJ-MP204C	Camera Number
1	1, 2, 3, 4
2	5, 6, 7, 8
3	9, 10, 11, 12
4	13, 14, 15, 16

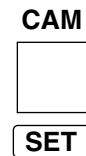
When more than one controller is connected in the system, remember settings are needed for the MODE DIP switch and CONTROLLER NO. switch of the controllers as described on page 16.

● Camera Selection

1. Press a camera number using the numeric buttons.



2. Press the **CAM/SET** button.



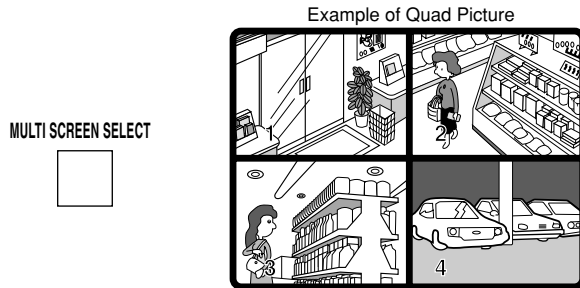
■ Video Multiplexer Control

Some of the major functions equipped in a Video Multiplexer are remotely controlled from the System Controller. For more information, refer to the manual included with the Video Multiplexer.

The operating procedures on the following pages assume that you have selected a system unit and a monitor.

● Multiscreen Selection

1. Press the **MULTISCREEN SELECT** button. The selected multiscreen monitor displays a split screen.



2. Press the button repeatedly to select the number of segments you wish the multiscreen to display. Each time the button is pressed, the number changes as follows depending on the number of inputs (16 or 9).

16-input: 4 → 9 → 16 → 4 screen segments

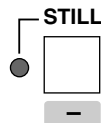
9-input: 4 → 9 → 4 screen segments

● Still Picture

There are two ways of displaying still pictures on the multi-screen monitor.

● Specific camera still

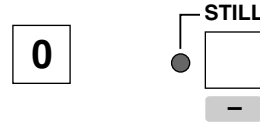
1. Select a camera number using the numeric buttons, then press the **STILL/-** button. The selected camera picture freezes on the multiscreen while the **STILL/-** indicator is lit.



2. Press the **STILL/-** button to cancel still display mode.

● All cameras still

1. Enter 0 with the numeric buttons, then press the **STILL/-** button. All camera pictures freeze on the multiscreen while the **STILL/-** indicator is lit.

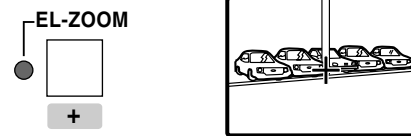


2. Press the **STILL/-** button to cancel the still display mode.

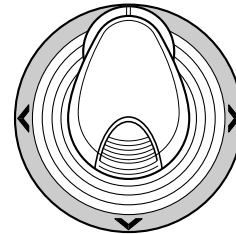
● Electronic Zoom

A picture displayed on the monitor can be electronically zoomed in, and the enlarged area in the picture can be moved using the joystick.

1. Press the **EL-ZOOM/+** button. The **EL-ZOOM/+** indicator is lit, and a plus mark [+] appears in the center of the monitor screen.

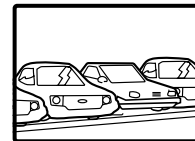


2. Move the [+] mark into the zoom area moving the joystick.



3. Press the **EL-ZOOM/+** button again to zoom.

You can move the enlarged area on the monitor using



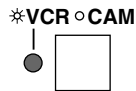
the joystick.

4. Press the **EL-ZOOM/+** button to cancel the zoom mode. The **EL-ZOOM/+** indicator goes off.

● Viewing Playback

VTR playback pictures are displayed on the selected spot or multiscreen monitor.

1. With the connected VTR in playback mode, press the **VCR/CAM** button to turn on the VCR indicator. Playback pictures are displayed on the selected monitor.



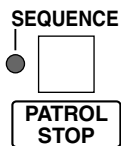
2. Press the **VCR/CAM** button again to cancel viewing playback. The VCR indicator goes off.

Note: This function is automatic when PLAYBACK AUTO is set to ON in the Video Multiplexer setup and the playback signal is supplied to the Video Multiplexer. Set PLAYBACK AUTO to OFF in the setup when you wish manual operations as described above.

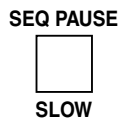
● Sequence Control

A preset sequence is displayed on the selected spot or multiscreen monitor. The paused picture can be moved by one step to the previous or next frame.

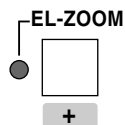
1. Press the **SEQUENCE** button. The sequence is displayed on the monitor while the **SEQUENCE** indicator is lit.



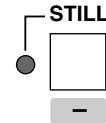
2. To pause the sequence, press the **SEQ PAUSE** button.



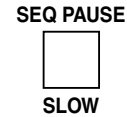
3. To move the sequence one step forward, press the **EL-ZOOM/+** button.



4. To move the sequence one step back, press the **STILL/-** button.



5. To cancel the sequence pause, press the **SEQ PAUSE** button again.



■ Digital Disk Recorder Control

A Digital Disk Recorder is controlled from the System Controller using shortcuts assigned to numeric buttons.

For more information, refer to the manual included with the Digital Disk Recorder.

The operating procedures on the following pages assume that you have selected a system unit and a monitor.

● WJ-HD100 Shortcuts

The shortcuts listed below are available for controlling a digital disk recorder. For more details, refer to the Operating Instructions included with the digital disk recorder.

Item	WJ-HD100	WV-CU360CJ	Note
Show/Hide SETUP MENU	Hold down  2 seconds	Hold down  2 seconds	Button lock is released automatically by opening the setup menu.
Setup Item Selection	 	 	
Parameter Selection		 	
Move Cursor Back A Step			
Show/Hide Alarm History	Operate LCD Button.	 → 	
Search Alarm History		 	
Play/Stop Selected Alarm Record	 	 	
Recording		 →  → 	
Stop		 →  → 	
Stop Playback		 →  → 	Exclusive use to stop playback.
Stop Recording		 →   → 	Exclusive use to stop recording.
Playback		 →  → 	
Pause		 →  → 	
Step Playback FWD.	 → 	 →  → 	
Step Playback REW.	 → 	 →  → 	
Skip Playback FWD.	 → 	 →   → 	
Skip Playback REW.	 → 	 →   → 	
Jump to Latest.	 →  → Press Jog Dial	 →  → 	The top of the latest record will be accessed.
Jump to Oldest.	 →  → Press Jog Dial	 →  → 	The top of the oldest record will be accessed.

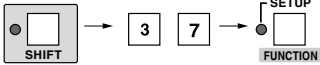
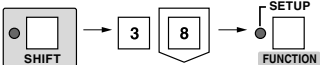
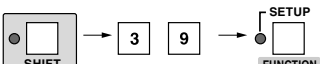
Item	WJ-HD100	WV-CU360CJ	Note
DAYLIGHT SAVINGS		 → 1 → 3 →  	
Timer REC Mode Selection	Operate LCD Button.	 → 1 → 4 →  	OFF, INT or EXT selectable
Button Lock OFF	Operate LCD Button.	 → 3 → 0 →  	
Button Lock ON	Operate LCD Button.	 → 3 → 1 →  	

● WJ-HD500A Shortcuts

The shortcuts listed below are available for controlling a digital disk recorder. For more details, refer to the Operating Instructions included with the digital disk recorder.

Item	Controller Operation	Note
Step Playback FWD	 → 1 →  	
Step Playback REW	 → 2 →  	
Pause	 → 4 →  	
Playback	 → 5 →  	
Recording	 → 6 →  	Equal to REC button
Stop	 → 8 →  	For both Manual Recording and Playback
Stop Playback	 → 9 →  	Exclusive use to stop playback
Stop Recording	 → 1 → 0 →  	Exclusive use to stop recording
Alarm Search OFF	 → 3 → 2 →  	
Alarm Search ON	 → 3 → 3 →  	
Button Lock OFF	 → 3 → 0 →  	
Button Lock ON	 → 3 → 1 →  	
Daylight Savings ON/OFF	 → 1 → 3 →  	
Timer Mode Selection	 → 1 → 4 →  	Internal, External, Off
Record List Display ON/OFF	 → 1 → 5 →  	Index
Record Search Window ON	 → 1 → 6 →  	Index/Shuttle

Item	Controller Operation	Note
Screen Display ON/OFF	 → 1 → 9 → 	
Group Selection	 → 2 → 2 → 	
Show/Hide Alarm Log	 → 	
Skip Playback FWD.	 → 1 → 1 → 	Speed change 1/2, 1, 2, 5
Skip Playback REW.	 → 1 → 2 → 	Speed change 1/2, 1, 2, 5
Record List 1 line Up	 → 2 → 3 → 	
Record List 1 line Down	 → 2 → 4 → 	
Record List Turn Next Page	 → 2 → 5 → 	
Record List Turn Prev. Page	 → 2 → 6 → 	
Playback of Selected Record	 → 2 → 7 → 	Record List
Backward Search in Window	 → 2 → 8 → 	Record List
Forward Search in Window	 → 2 → 9 → 	Record List
Increment Parameter in Window	 → 3 → 4 → 	Record List
Decrement Parameter in Window	 → 3 → 5 → 	Record List
Search Window Display ON/OFF	 → 3 → 6 → 	Record List
Alarm Log 1 line Up		
Alarm Log 1 line Down		
Playback of Selected Alarm Record	 → 	Alarm Log
Backward Search in Window		Alarm Log
Forward Search in Window		Alarm Log
Increment Parameter in Window	 → 	Alarm Log
Decrement Parameter in Window	 → 	Alarm Log
Search Window Display Selection	 → 	Time & Date, Alarm CH, OFF

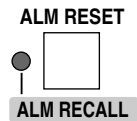
Item	Controller Operation	Note
Copy to DVD		
Copy Cancel		
DVD Copy Record Display		Equal to EL-ZOOM

■ Alarm Operation

When the WV-CU360CJ receives an alarm signal from a system unit, the alarm indicator on the controller blinks. The alarm indicator changes from blinking to steady light when the alarm is automatically reset. The camera number [---] appears in the camera section of the LED display.

● Alarm Reset

1. Press the **ALM RESET/ALM RECALL** button.



The alarm indicator on the controller goes off.

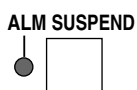
Notes:

- Alarm reset operations including auto reset are applied to all system units, not to a selected one.
- Alarm reset mode differs depending on the system unit connected to the WV-CU360CJ.
- Confirm that the SHIFT button is released.

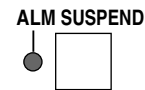
● Alarm Suspension

The alarm suspension mode is activated or deactivated. Use this function when you do not want to be disturbed by alarm input as for example during setup operations.

1. Press the **ALM SUSPEND** button. The **ALM SUSPEND** indicator lights up.
Alarm input is ignored while the indicator is lit.



2. To cancel alarm suspension, press the **ALM SUSPEND** button again.

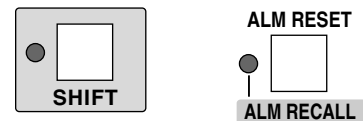


Note: The alarm suspension is applied to all system units, not to a selected one.

● Alarm Recall

The alarm event log is recalled and displayed on the monitor.

1. Select the desired system unit and monitor.
2. Press the **ALM RESET/ALM RECALL** button while the **SHIFT** indicator is lit. The **ALM RECALL** indicator lights up. The alarm log appears on the monitor.



3. To cancel the alarm recall function, press the **ALM RESET/ALM RECALL** button while the **SHIFT** indicator is lit.

REMOTE SETUP of UNITS & CAMERAS

You can set up the system unit and the camera with the setup menu by this controller.

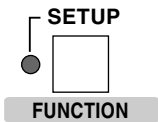
You can use the controller to set up system units and cameras.

This section describes the main remote setup procedures. Some of the descriptions may not be applicable if they refer to devices not equipped in your system.

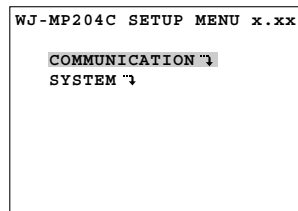
For further information on the default settings and operating procedures, refer to the Operating Instructions included with the individual units.

System Unit Setup

1. Select the desired system unit compatible with PS•Data mode.
2. Press the **SETUP/FUNCTION** button for more than 2 seconds. The **SETUP** indicator lights up. The Setup menu for the system unit appears on the monitor.



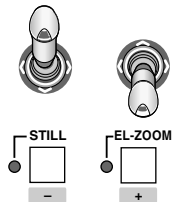
Example of Setup Menu for WJ-MP204C



3. To complete the setup, press the **SETUP/FUNCTION** button for 2 seconds or more. The **SETUP** indicator goes off.

Note: If you change the default baud rate or parity check, the system unit setup function is disabled.

Keys used for system unit setup



To move the cursor.

To select a parameter.



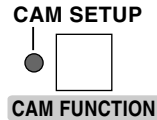
To execute the parameter or enter a submenu



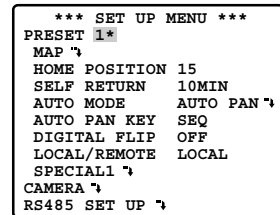
To return to the previous menu

Camera Setup

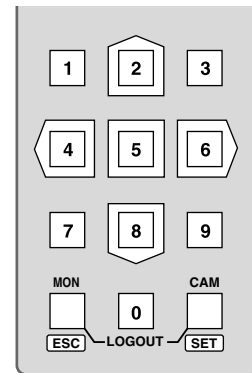
1. Select the desired camera.
2. Press the **CAM SETUP/CAM FUNCTION** button for 2 seconds or more to access the Camera Setup menu. The **CAM SETUP** indicator lights up.



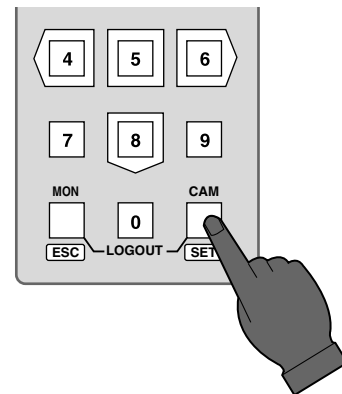
(Example of Camera Setup menu)



3. Move the cursor with the numeric buttons 2 (Up) or 8 (Down), then select a parameter with the buttons 6 (Right) or 4 (Left).



4. Press the **CAM/SET** button to execute the parameter or enter a submenu.



5. To return to the previous menu, press the **MON/ESC** button.
6. Press the **CAM SETUP/CAM FUNCTION** button for 2 seconds or more to complete the camera setup.

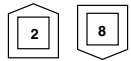
7. Move the cursor to [SPECIAL] on the Setup menu, and press numeric buttons **4** and **6** simultaneously for 2 seconds or more to display the special menu.
8. Move the cursor to [CAMERA RESET]* on the Setup menu, and press buttons **4**, **5** and **6** simultaneously to reset all the functions to the defaults.

* The menu to reset the camera functions differs depending on the camera:
 [SPECIAL] for the WV-CS650, [SPECIAL 2] for the WV-CS854, and [END] for fixed cameras etc.

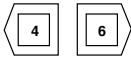
Notes:

- If camera setup is started using the buttons on the camera, all future operations for setup must be performed using the buttons on the camera.
- If camera setup is started using the System Controller, all future operations for setup must be performed using the same controller.
- For further information, refer to the Operating Instructions for the selected camera.

Keys used for camera setup



To move the cursor



To select a parameter



To execute the mode or enter a submenu

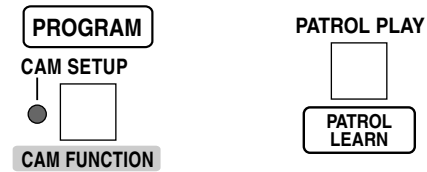


To return to the previous menu

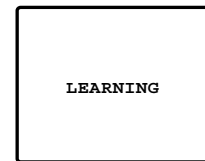
■ Camera Patrol Learning

There are two ways of setting up camera patrol learning. One is to use the camera setup menu and the other is to operate the camera. Follow the procedures below to set up while operating the combination camera.

1. Select the desired system unit, monitor and combination camera.
2. Press the **PATROL PLAY/PATROL LEARN** button while holding down the **PROGRAM/CAM SETUP/CAM FUNCTION** button.



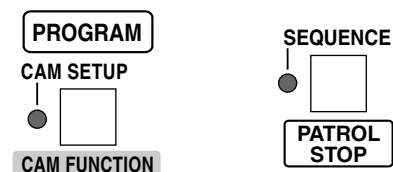
[LEARNING] appears on the monitor.



3. Operate the camera using the following controls so that it traces a routine course most frequently patrolled. The learning is programmed for 30 seconds for later patrol play.
 - Pan/Tilt (Joystick)
 - Iris (Open/Close)
 - Focus (Far/Near)
 - Zoom (Tele/Wide)
 - Preset Position

Note: The memorized parameters may differ somewhat depending on the camera type. Refer to the manual included with the camera.

4. To stop the learning, press the **SEQUENCE/PATROL STOP** button while holding down the **PROGRAM/CAM SETUP/CAM FUNCTION** button.

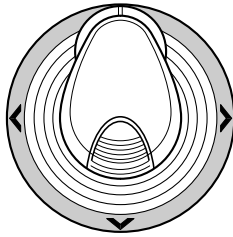


[LEARNING] disappears from the monitor.

■ Camera Preset Position

There are two ways of presetting camera positions. One is to use the camera setup menu of the combination camera and the other is to operate the System Controller as follows.

1. Select the desired system unit, monitor and camera.
2. Move the camera to a position you wish to preset, using the joystick.

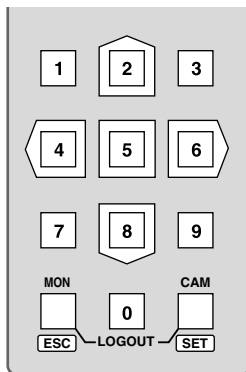


Adjust the picture using the following buttons.

- Iris (Open/Close)
- Focus (Far/Near)
- Zoom (Tele/Wide)

Note: The memorized parameters may differ somewhat depending on the camera type. Refer to the manual included with the camera.

3. Type a number with the numeric buttons for the preset position. The typed number appears in the CAMERA section of the LED display.



4. Press the **HOME/PRESET/PROGRAM PRESET** button while holding down the **PROGRAM/CAM SETUP/CAM FUNCTION** button.

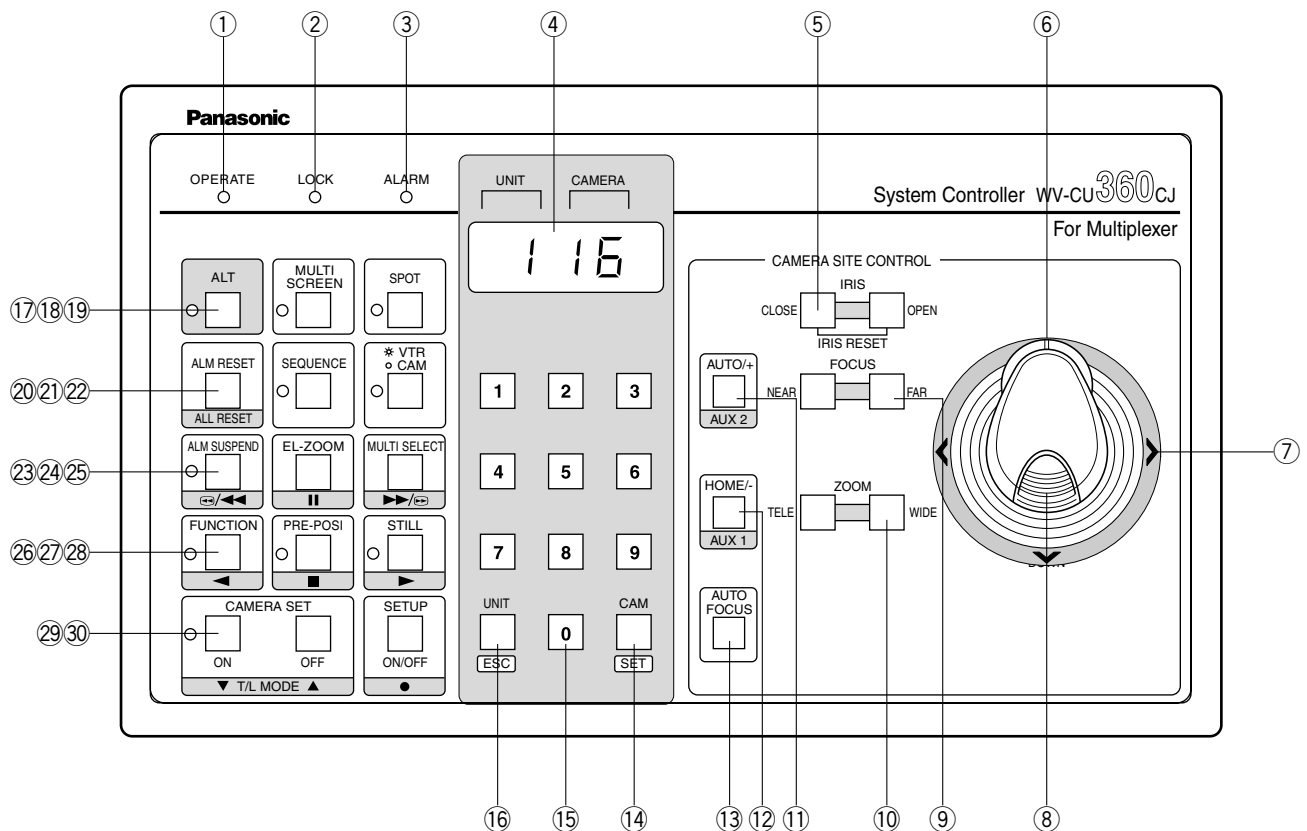
The position and its number are memorized for later recall.



For WJ-FS616C Multiplexer System

MAJOR OPERATING CONTROLS & THEIR FUNCTIONS

■ Front View (Template for WJ-FS616C)



① Operate Indicator (OPERATE)

Is lit while power is supplied to the System Controller.

② Lock Indicator (LOCK)

Is lit while operation of the System Controller and WJ-FS616C is prohibited by the connected computer. The lock can be released by sending a command from the computer.

③ Alarm Indicator (ALARM)

Blinks when an alarm is activated. Blinking changes to steady light when the alarm is automatically reset. To turn the indicator off, press the **ALM RESET** button.

④ LED Display (UNIT CAMERA)

LED display allowing you to confirm the number of the system unit and camera in operation. The CAMERA section will display “-” when operating in multiscreen or sequence mode.

⑤ Iris buttons (IRIS, CLOSE/OPEN)

Close or open the lens iris of cameras equipped with the specified lens. When these buttons are pressed at the same time, the lens iris is reset to the factory setting.

⑥ Zoom wheel controller

This control is used for zooming cameras equipped with the specific lens. Moving the control to the right will zoom in the image. Moving the control to the left will zoom out the image.

⑦ Joystick Controller

Used to operate the pan/tilt head manually, or to move the cursor to the desired position in the setup menu of the Video Multiplexer.

- ▲: Upward
- ▼: Downward
- ◀: Left
- ▶: Right

⑧ Top button

Pressing this button will automatically set the lens focus of a specified camera.

⑨ Focus buttons (FOCUS, NEAR/FAR)

Adjust the lens focus of cameras equipped with the specified lens.

- ⑩ **Zoom buttons (ZOOM, TELE/WIDE)**
Zoom cameras equipped with the specified lens.
- ⑪ **Auto/Increment button (AUTO/+)**
Activates the auto panning function.
During the setup, this button is used to select the desired parameter in the setup menu.
- ⑫ **Home/Decrement button (HOME/-)**
Moves the camera to the home position.
During the setup, this button is used to select the desired parameter in the setup menu.
- ⑬ **Auto Focus button (AUTO FOCUS)**
Activates the auto focus function when the specified camera with auto focus feature is selected.
- ⑭ **Camera/Set button (CAM/SET)**
CAM: Selects a camera. Enter a camera number with the numeric buttons, then press the CAM/SET button.
SET: Executes the currently highlighted setting in the setup menu.
- ⑮ **Numeric Buttons (0 - 9)**
These buttons are used for numeric input into the system, such as the number of a camera you want to select.
- ⑯ **Unit/Escape button (UNIT/ESC)**
UNIT: Selects a WJ-FS616C unit. Enter a unit number with numeric buttons, then press the UNIT/ESC button.
ESC: Escapes from the currently highlighted selection and return to the previous menu window in the setup.
- ⑰ **Alternate button (ALT)**
In combination with certain other buttons, activates special functions.
For example, in combination with the ALM SUSPEND, EL-ZOOM or MULTI SELECT button, it is used to control the VTR (VCR).
- ⑱ **Multiscreen Monitor button (MULTI SCREEN)**
Selects the multiscreen monitor connected to the MULTISCREEN OUT connector of the Video Multiplexer.
The indicator lights up when the multiscreen monitor is selected.
Note: When REC OUT of the Video Multiplexer is used as connector for the Multiscreen 2 Monitor, this button alternately selects the Multiscreen or Multiscreen 2 Monitor.
The indicator blinks when the Multiscreen 2 monitor is selected.
- ⑲ **Spot Monitor button (SPOT)**
Selects the spot monitor connected to the SPOT OUT connector of the Video Multiplexer.
The indicator lights up when the spot monitor is selected.
- ⑳ **Alarm Reset button (ALM RESET)**
Cancels an active alarm.
Pressing this button while the alarm function is activated will reset an alarm of the currently selected unit and return the system to the condition before the alarm function was activated.
Pressing it in combination with the ALT button will reset all alarms.
- ㉑ **Sequence button (SEQUENCE)**
Activates the sequence mode. In this mode, a series of camera pictures is displayed in succession on the monitor screen for the specified duration.
The indicator lights up when this mode is selected.
- ㉒ **VTR (VCR)/Camera selection button (VTR/CAM)**
Selects the camera picture or VTR (VCR) playback picture for display on the multiscreen monitor.
The indicator lights up when the VTR (VCR) mode is selected.
Note: The above operation is not valid unless multiscreen monitor is selected using the MULTI-SCREEN button.
- ㉓ **Alarm Suspend button (ALM SUSPEND)**
Pressing this button for more than two (2) seconds suspends activation of the alarm without changing the current alarm mode setup.
The indicator lights up when the alarm suspension mode is selected.
- ㉔ **Electronic Zoom button (EL - ZOOM)**
Zooms the picture presently displayed on the multiscreen monitor.
- ㉕ **Multiscreen Selection button (MULTI SELECT)**
Selects the multiscreen pattern to be displayed on the multiscreen monitor while monitoring the camera picture or VTR (VCR) playback picture.
Pressing this button repeatedly will switch the screen as follows:
Camera Picture:
4 → 7 → 9 → 10 → 13 → 16 → 4 screen segments
VTR (VCR) Playback Picture:
4 → 9 → 16 → 4 screen segments
- ㉖ **Function button (FUNCTION)**
Displays the VTR (VCR) playback picture with the camera pictures on the multiscreen monitor.
The indicator lights up when the combined mode is selected, and turns off when the playback picture is selected.
During the setup, this button is used to select the next page.
- ㉗ **Preset Position button (PRE - POSI)**
In combination with the numeric buttons and CAM (SET) button, moves the camera to the desired preset position.

②⑧ **Still button (STILL)**

Freezes the picture on the multiscreen monitor.
The indicator lights up when the still mode is selected.

②⑨ **Camera Set buttons (CAMERA SET ON/OFF)**

Open or close the camera setup menu on the monitor screen.

ON: Opens the selected camera setup menu on the monitor, if applicable.

The indicator lights up when the camera setup menu is displayed.

OFF: Closes the camera setup menu.

③⑩ **Set Up button (SET UP ON/OFF)**

Opens or closes the WJ-FS616/FS616C setup menu on the monitor.

INSTALLATIONS (For WJ-FS616/FS616C)

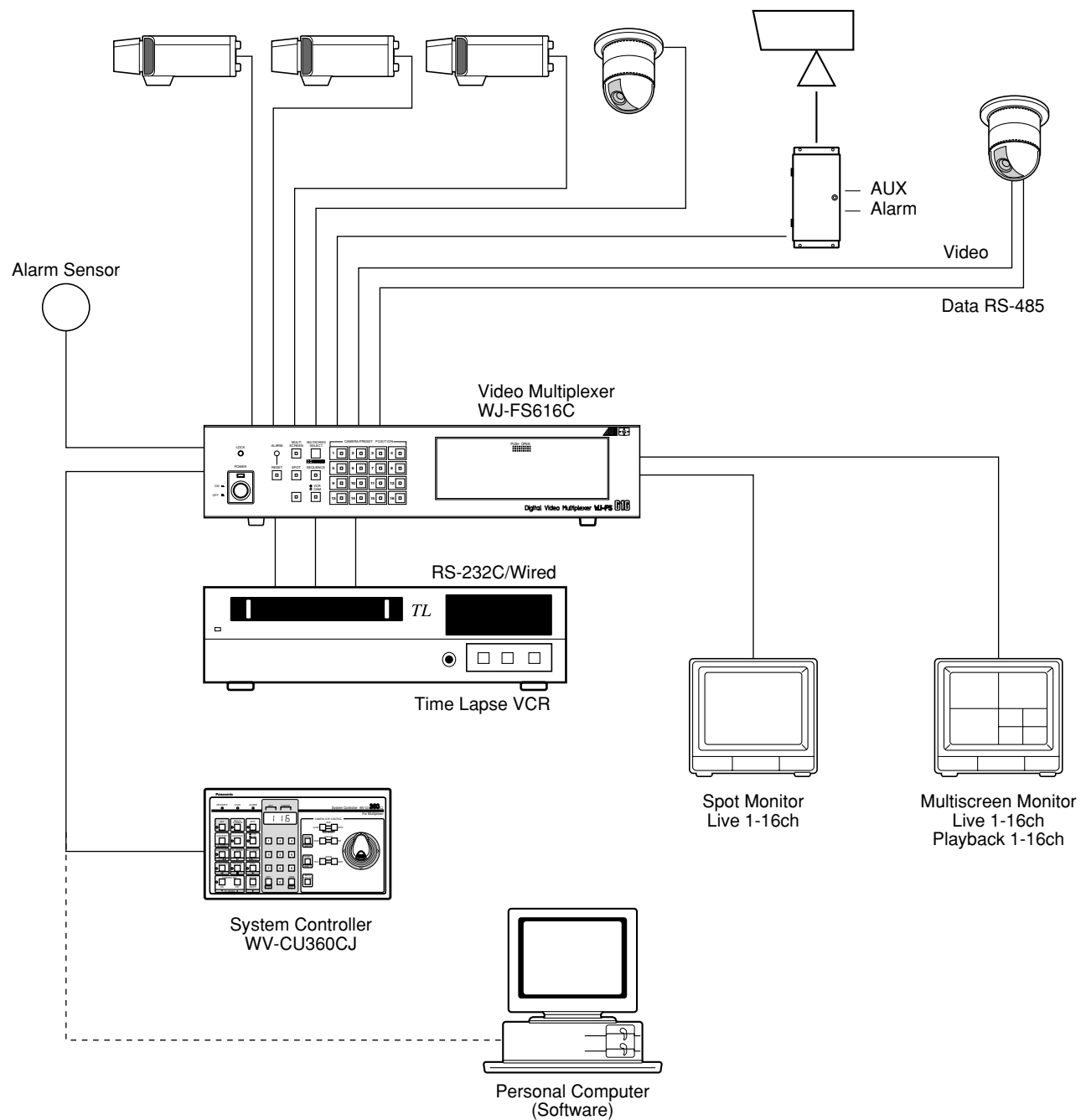
CAUTION

The installation should be made by qualified service personnel or system installers according to the following instructions.

■ System Connections

● Connection Example

The connection example shows cameras and an alarm sensor connected to the Video Multiplexer. A time lapse VTR will record pictures for later playback. The spot monitor and multiscreen monitor will display live and playback pictures while these devices are being operated from System Controller WV-CU360CJ.

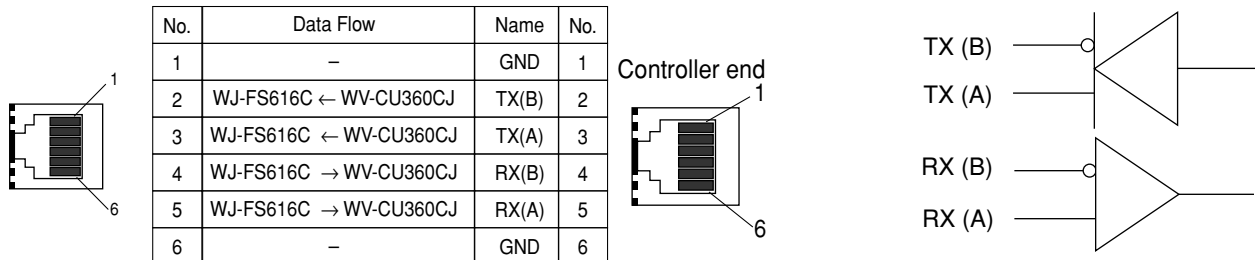


● DATA Port Connection (For Multiplexer)

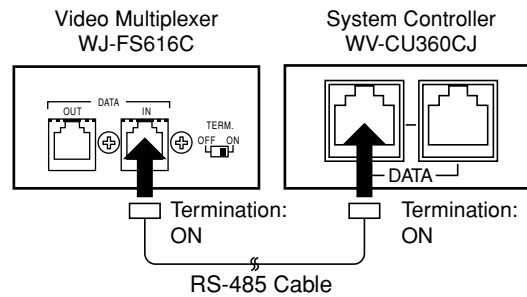
Data ports are connected with RS-485 cables among devices using the Camera Communication protocol as follows.

Note: When using cables other than those supplied, make sure to use shielded 4-wire twisted pair cable suitable for RS-485 communication.

• Internal Diagram

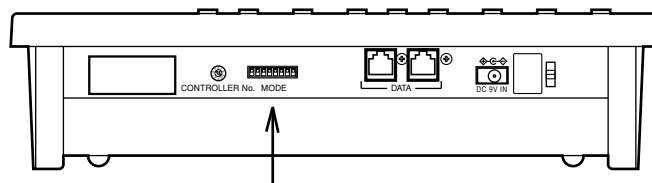


• Basic Connection



■ DIP Switch Setting (For Multiplexer)

An 8-bit DIP switch mounted on the rear panel specifies the communication mode, etc. The default position is marked with an asterisk *.

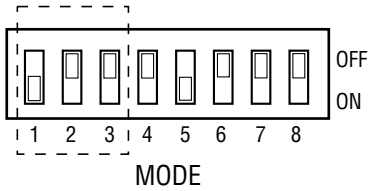


	Function	SW position	
		OFF	ON
Bit 1	Operation mode	See Unit Version*	
Bit 2	Operation mode	See Unit Version*	
Bit 3	Operation mode	See Unit Version*	
Bit 4	Reserved	Fixed to OFF*	Not used
Bit 5	Line termination	Off	On*
Bit 6	Administrator mode	Off*	On
Bit 7	Reserved	Fixed to OFF*	Not used
Bit 8	Data transmission	Fixed to OFF*	Not used

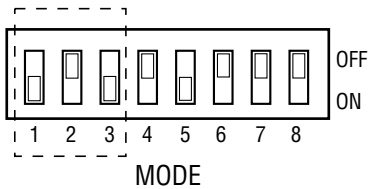
● Unit Version

The unit ID is defined by the upper 3 bits depending on the software version installed in the unit.

• WJ-FS616



• WJ-FS616C



■ Controller Number Setting

Set this switch always to 1 when using the System Controller in a system including a Multiplexer WJ-FS616/FS616C.



CONTROLLER No.

● Switch Setting Procedures

1. Remove the DC plug from the rear of the controller.
2. Set the MODE switch referring to the table.
 - The bit switches #1 to #3 should be set to positions that match the version of the Multiplexer installed in the system.
 - Bit 5 opens or terminates the communication chain. The switch should be set to OFF when the controller is located in an intermediate position of the chain.
 - Bit 6 specifies either Operator or Administrator as the Administrator mode. Set to on when setting up the controller.
 - Bits 4, 7 and 8 are reserved.
3. Set the CONTROLLER NO. switch to 1.
4. Connect the DC plug to the controller.

SETUP PROCEDURES (For WJ-FS616/FS616C)

To display the setup menus for the WV-CU360CJ System Controller on the LED display, set the MODE switch and power up the controller as described below.

■ Prior to Setup

Do the following before entering the setup mode.

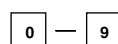
1. Confirm that all necessary connections and switch settings are complete.
2. With the power turned off, move bit #6 of the MODE switch on the rear to ON (administrator) position.
3. Supply power to the controller.
4. Turn on the power of cameras and other system units.
5. The LCD displays [SEtUP]. The controller is ready to enter the setup mode.

When setup is completed, restore the switch to its original position.

1. With the power turned off, move bit #6 of the MODE switch on the rear to OFF (operator) position.
2. Supply power to the controller.

■ Buttons and Controls Used for Setup

The following buttons and joystick operations are used for setup.



Numeric buttons: To select a parameter



CAM/SET button: To execute modes and parameters
To enter a submenu



UNIT/ESC button: To return to the previous menu



Up: To select a setup menu



Down: To select a setup menu



or



Left: To decrease the parameter



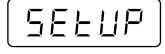
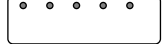
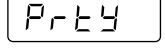
or



Right: To increase the parameter

■ Controller Setup

Set up the baud rate and parity check mode for the controller while observing the LED on the front panel.

Menu Selection	Setup Menus				Parameter Selection (default*)
	LED Display	Reading	Function		
No  OK		Setup	Initial Display	CAM  → SET	LED prompts you to enter password
	 blinking	Administrator Password Prompt	Authorization		Enter a 5-digit password, press CAM (12345*)  SET
Move Joystick up and down to select 		Speed	Baud Rate (bps)	Press twice CAM  → SET	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
		Parity	Parity Check	← MON  ESC	(1) None (2) Even*

● Administrator Authorization

1. Press the CAM/SET button while [SETUP] is displayed. The [- - - -] prompt appears.
2. Enter a password with the numeric buttons, then press the CAM/SET button. The default setting is [12345].
3. If the password entered is valid, [SPEED] appears. If password entry failed, the menu returns to [SETUP].

Note: Selecting a slower rate (e.g., 2 400 bps) will delay the response time (e.g., the time until an activated alarm is reset).

3. Press the **CAM/SET** button to validate the selection.
4. Press the **ESC** button to go back to the previous menu.

● Baud Rate

In this menu, the communication speed (bps: bits per second) is selected. The communication speed should match that of the WJ-FS616/FS616C.

1. Display [SPEED] and press the CAM/SET button twice.
2. Select a parameter entering a bracket-enclosed number, e.g., (3), moving the joystick to right and left, or pressing the [+] and [-] buttons. The default setting is 9 600 bps.
 - (1) **2 400**: 2 400 bps
 - (2) **4 800**: 4 800 bps
 - (3) **9 600**: 9 600 bps
 - (4) **19 200**: 19 200 bps

● Parity

In this menu the parity check mode is selected.

1. Display [PrtY] and press the **CAM/SET** button twice.
2. Select a parameter with the joystick.
The default setting is Even.
 n: None
 E: Even parity
3. Press the **CAM/SET** button to validate the selection.
4. Press the **ESC** button to go back to the previous menu.

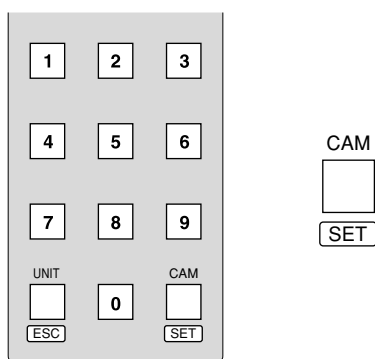
OPERATING PROCEDURES (For WJ-FS616/FS616C)

Note: For common operations to the controller and the WJ-FS616/FS616C, please refer to the manual included with the WJ-FS616/FS616C. The following pages describe only operations different from the WJ-FS616/FS616C.

■ Camera Selection

One of the cameras connected to the system unit is selected.

1. Enter a camera number using the numeric buttons.
The number appears on the LED display.
2. Press the **CAM/SET** button.



Note: [--] appears in the camera section of the LED display when an alarm is activated, when the multi-screen is displayed, or when sequence mode is run.

The following functions of the camera are controlled.

- Pan/tilt
- Focus
- Zoom
- Iris
- Defroster ON/OFF (camera housing)
- Wiper ON/OFF (camera housing)
- Preset Position (Combination Camera)
- Home position (Combination Camera)
- Auto pan (Combination Camera)

The following additional functions can be controlled when using the WV-CS854 or later camera models.

- Switching between colour and B/W picture (Combination Camera)
- Patrol Learn function (Combination Camera)
- Camera functions (Combination Camera)

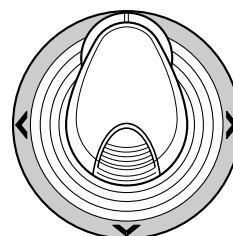
■ Camera Control

Cameras and their peripherals are controlled from the WV-CU360CJ as follows. Some of the descriptions may not be applicable if they refer to devices not equipped in your system.

● Pan/Tilt Control

Proceed as follows to control an ordinary camera mounted on a pan/tilt head or a combination camera in manual or automatic panning mode.

1. Move the pan/tilt head in the desired direction with the joystick controller.



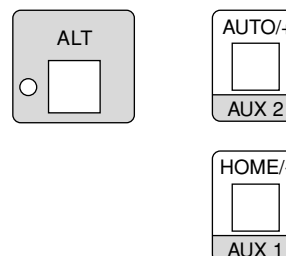
2. Press the **AUTO/+** button to activate a preset auto panning.

● AUX Control

This allows you to control an auxiliary device such as a buzzer or lamp connected to the Receiver or combination camera.

● Auxiliary 1/2

1. Press the **ALT** button to turn on the **ALT** indicator .



2. Press the **AUX 1** or **AUX 2** button to operate or cancel the auxiliary function for the selected camera.

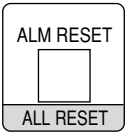
Note: Auxiliary control may be ignored while zooming, focusing or panning/tilting is in operation.

■ Alarm Operation

When the WV-CU360CJ receives an alarm signal from the WJ-FS616/FS616C, the alarm indicator blinks. The alarm indicator changes from blinking to steady light when the alarm is automatically reset. The camera number appears in the camera section of the LED display.

● Alarm Reset

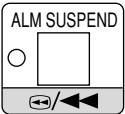
1. Press the **ALM RESET** button while the **ALT** indicator is not lit. An activated alarm is reset and the alarm indicator on the controller goes off.



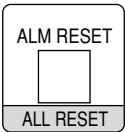
2. To reset all alarms issued by the multiplexers connected in a daisy chain, press the **ALT** button, then press the **ALM RESET** buttons.

● Alarm Suspension

1. Press the **ALM SUSPEND** button for more than 2 seconds to suspend the alarm. The **ALM SUSPEND** indicator lights up.



2. Press the **ALM RESET** button to reset alarm suspension. The **ALM SUSPEND** indicator goes off.



■ VTR (VCR) Control

You can operate a VTR (VCR) connected to the Video Multiplexer from the controller using the buttons listed below with the ALT indicator lit.

Function	Logo	Note
Rewind		
Pause		
Fast Forward		
Reverse Play		
Stop		
Playback		
T/L (time-lapse) Mode Down		e.g., change from 72H mode to 24H mode
Up		e.g., change from 24H mode to 72H mode
Recording		

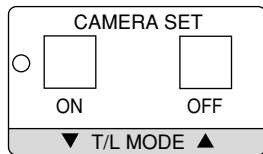
■ Camera Setup

The cameras connected to the WJ-FS616/FS616C are set up from the controller.

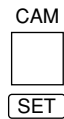
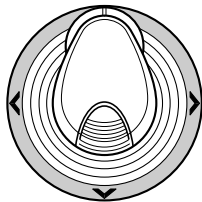
Note: Make sure that the multiplexer and the controller are set to identical communication parameters.

● General Setup

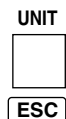
1. Select a camera pressing the numeric buttons, then press the **CAM/SET** button.
2. Press the **CAMERA SET ON** button. The ON indicator is lit while the CAMERA SET UP MENU is displayed on the monitor.



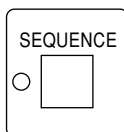
3. Select a setup item by moving the joystick up and down. Select a parameter by moving the joystick to the right or left, then press the **CAM/SET** button to validate the selection or to enter a submenu.



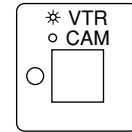
4. Press the **UNIT/ESC** button to execute the selection and to return the menu to a higher layer.



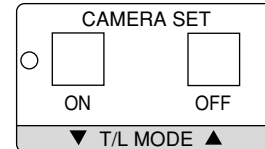
5. Press the **SEQUENCE** button to enter the SPECIAL menu.



6. Press the **VTR/CAM** button to reset all functions to the defaults, or press the **SEQUENCE** button to reset a selected function.



7. Press the **CAMERA SET OFF** button to close the camera setup menu.



● Shortcut for Preset Position Setup

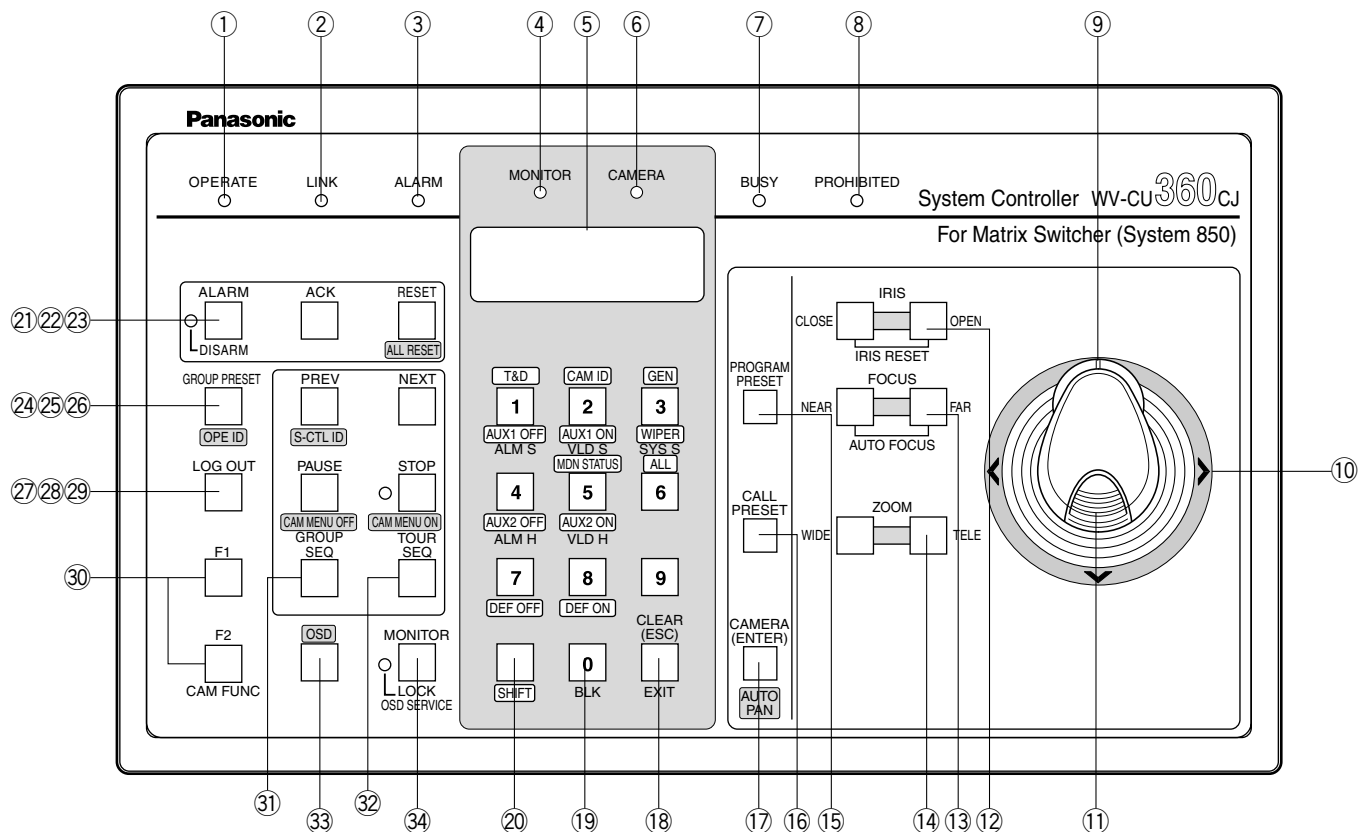
A shortcut can be created for setting a camera position without going through the whole presetting process. Shortcuts are applicable only to cameras having the presetting function.

1. Open the PRESET menu of the camera.
2. Press the **ALT** button while the position setting menu is displayed.
3. Move the camera with the joystick to the position you wish to preset.
4. Adjust the picture with the **IRIS**, **FOCUS** and **ZOOM** buttons.
5. Press the **ALT** button again. The preset conditions are registered, and the joystick function reverts to moving the cursor.

**For System 850
WJ-SX850 Matrix
Switcher System**

MAJOR OPERATING CONTROLS & THEIR FUNCTIONS

■ Front View (Template for System 850 Matrix Switcher)



① Operate indicator (OPERATE)

Is lit while power is supplied to the System Controller.

② Link indicator (LINK)

Lights up when communication is established with the Main CPU.

③ Alarm indicator (ALARM)

Lights up when an alarm condition exists. Select the alarm number using the numeric buttons, then press the ALARM button and the RESET button to turn off the indicator.

④ Monitor indicator (MONITOR)

Lights up when the monitor number is displayed on the LED display.

⑤ LED Display

Displays the number of monitors and cameras currently controlled.
It also displays numeric input, error status, etc.

⑥ Camera indicator (CAMERA)

Lights up when the camera number is displayed on the LED display.

⑦ Busy indicator (BUSY)

Lights up when you attempt to control a monitor or camera that is already used by a higher priority operator, or when the higher priority operator selects the camera or monitor you are currently operating.
Operations from the System Controller are disabled until this indicator goes off.

⑧ Prohibited indicator (PROHIBITED)

This indicator lights up for 3 seconds when an attempt is made to gain access to a function that is prohibited by the partition.

⑨ Zoom wheel controller

This control is used for zooming cameras equipped with the specific lens. Moving the control to the right will zoom in the image. Moving the control to the left will zoom out the image.

⑩ **Joystick Controller**

Used to manually operate the Pan/Tilt Head, or move the cursor in the camera menu on the active monitor screen.

- ▲: Upward
- ▼: Downward
- ◀: Left
- ▶: Right

⑪ **Top button**

Pressing this button will automatically set the lens focus of a specified camera.

⑫ **Iris buttons (IRIS, CLOSE/OPEN)**

Closes or opens the lens iris of cameras equipped with the specified lens.

When these buttons are pressed at the same time, the lens iris is reset to the factory default setting.

⑬ **Focus buttons (FOCUS, NEAR/FAR)**

Adjusts the lens focus of cameras equipped with the specified lens.

When these buttons are pressed at the same time, the lens focus is set automatically if the specified camera with the auto focus feature is equipped.

⑭ **Zoom buttons (ZOOM, WIDE/TELE)**

Zoom the image in or out if the camera is equipped with the specified lens.

⑮ **Program Preset button (PROGRAM PRESET)**

In combination with the numeric buttons and CAMERA (ENTER) button, saves a preset position of the camera in a system equipped with the specified cameras.

To save a preset position, move the camera to the position to be preset and select a preset number by pressing the numeric buttons. Hold down the PROGRAM PRESET button, then press the CAMERA (ENTER) button.

⑯ **Call Preset button (CALL PRESET)**

In combination with the numeric buttons, moves the pan/tilt head of the selected camera to a preset position in a system equipped with the specified cameras.

⑰ **Camera/Enter button [CAMERA (ENTER)]**

CAMERA: Used for camera selection. Select a camera by pressing the corresponding numeric buttons, followed by the CAMERA (ENTER) button.

ENTER: In combination with the numeric buttons, enter numeric input, such as operator ID and password. It is also used to execute the currently highlighted selection and enter a submenu of the camera menu.

Pressing CAMERA (ENTER) while holding down the SHIFT button will activate the auto panning function of the selected camera (AUTO PAN).

⑱ **Clear/Escape button [CLEAR (ESC)]**

CLEAR: Clears numeric input from the LED display.

ESC: Escapes from the currently highlighted selection and return to the previous page of the camera menu.

This button is also used to exit from alarm selection mode to normal operation mode.

⑲ **Numeric buttons (0 - 9)**

Used for numeric input into the system such as the camera and monitor number, sequence number, preset position, etc.

Pressing the buttons shown below while holding down the SHIFT button will select special functions.

- 1: Turns off the user auxiliary 1 switch of the receiver. (AUX1 OFF)
- 2: Turn on the user auxiliary 1 switch of the receiver. (AUX1 ON)
- 3: Turns on the housing wiper of the camera until these buttons are released. (WIPER)
- 4: Turns off the user auxiliary 2 switch of the receiver. (AUX2 OFF)
- 5: Turns on the user auxiliary 2 switch of the receiver. (AUX2 ON)
- 7: Turns off the housing defroster of the camera. (DEF OFF)
- 8: Turns on the housing defroster of the camera. (DEF ON)

⑳ **Shift button (SHIFT)**

Pressing this button in combination with buttons to which a special function has been assigned will activate these functions.

㉑ **Alarm button (ALARM), Disarm indicator (DISARM)**

In combination with the Numeric buttons, selects an alarm. To select an activated alarm, press the numeric buttons, followed by the ALARM button.

Pressing this button repeatedly enables or disables the cameras and monitor assigned to perform the alarm activities.

The DISARM indicator next to the button is lit while alarm activities are disabled.

㉒ **Alarm Acknowledge button (ACK)**

Acknowledge an activated alarm. Select the alarm by pressing the numeric buttons, followed by the ALARM button. Select the desired alarm action number by pressing the numeric buttons, then press the ACK button. The ACK indicator will light.

After acknowledging the alarm, press the RESET button to reset the alarm. The ACK indicator will go off.

②③ Alarm Reset button (RESET)

Cancels an activated alarm.

Press this button to reset an alarm activated in the currently active unit.

Pressing this button while holding down the SHIFT button cancels all currently activated alarms at a time (ALL RESET).

Pressing RESET in the camera menu will reset the parameter of a selected item or open the Special camera menu when the cursor is positioned on SPECIAL in the menu. Pressing it while holding down the SHIFT button will restore all factory default settings.

②④ Group Preset button (GROUP PRESET)

In combination with the numeric buttons, activates a previously programmed Group Preset function.

Pressing this button while holding down the SHIFT button will display the Operator ID number on the LED Display for about 3 seconds (OPE ID).

②⑤ Previous button (PREV)

Moves a Tour Sequence one step backward from the step that was previously paused on the active monitor by pressing the PAUSE button.

This button is also used to select a camera. Pressing PREV while holding down the CAMERA (ENTER) button will replace the currently selected camera with the next lower camera number, if the active monitor is in Spot mode.

Similarly pressing PREV while holding down the MONITOR button will select the next lower monitor number.

When selecting alarms, pressing PREV while holding down the ALARM button will select the previous alarm.

Pressing this button while holding down the SHIFT button will display the Controller ID number on the LED Display for about 3 seconds (S-CTL ID).

②⑥ Next button (NEXT)

Moves a Tour Sequence one step forward from the step that was previously paused on the active monitor by pressing the PAUSE button.

The button is also used to select a camera. Pressing NEXT while holding down the CAMERA (ENTER) button will replace the currently selected camera with the next higher camera number, if the active monitor is in Spot mode.

Similarly pressing NEXT while holding down the MONITOR button will select the next higher monitor number.

When selecting alarms, pressing NEXT while holding down the ALARM button will select the next alarm.

②⑦ Log Out button (LOG OUT)

In combination with the CAMERA (ENTER) button, logs out from the system.

To prevent a log-out error, press CAMERA (ENTER) while holding down the LOG OUT button.

②⑧ Pause button (PAUSE)

Pauses a Tour or Group Sequence that is being run on the active monitor.

Pressing PAUSE while holding down the SHIFT button will close the camera menu on the active monitor. The STOP indicator will go off. (CAM MENU OFF)

②⑨ Stop button (STOP)

Ends a Tour Sequence that is being run on the active monitor.

To end a Group Sequence, select one of the monitors that displays the selected sequence, then press this button.

Pressing STOP while holding down the SHIFT button will open the camera menu on the active monitor. The STOP indicator will light. (CAM MENU ON)

③⑩ Function buttons (F1, F2)

Provide access to camera attributes and operating functions.

F1: Reserved for future use.

F2: Pressing this button will select the mode for controlling selected camera functions (CAM FUNC).

③⑪ Group Sequence button (GROUP SEQ)

In combination with the numeric buttons, runs a Group Sequence on the assigned monitors.

Pressing GROUP SEQ will restart a forward sequence from the next step that was previously paused by pressing the PAUSE button.

③⑫ Tour Sequence button (TOUR SEQ)

In combination with the numeric buttons, runs a Tour Sequence on the active monitor.

Pressing TOUR SEQ will restart a forward sequence from the next step that was previously paused by pressing the PAUSE button.

③⑬ OSD (On Screen Display) button (OSD)

Displays or hide some of the information on the screen of the selected monitor. Press the numeric buttons shown below, then press the OSD button.

1: Clock Display (T&D)

2: Camera Title Display (CAM ID)

3: General Status Display (GEN)

5: Monitor Status Display (MON STATUS)

6: All Displays except clock (ALL)

③④ **Monitor/Monitor Lock/OSD service button**

(MONITOR/OSD SERVICE), Lock indicator (LOCK)

Selects a monitor by entering a monitor number with the numeric buttons, and then pressing this button.

To lock or unlock the currently selected monitor, press this button while holding down the SHIFT button. While the LOCK indicator is lit, other operators will be barred from accessing the monitor.

To access OSD service, press the numeric buttons shown below, then press this button.

- 1:** ALMS, Alarm status
- 2:** VLDS, Video loss detection status
- 3:** SYS S, System status
- 4:** ALM H, Alarm history
- 5:** VLDH, Video loss detection history

INSTALLATIONS (For System 850)

CAUTION

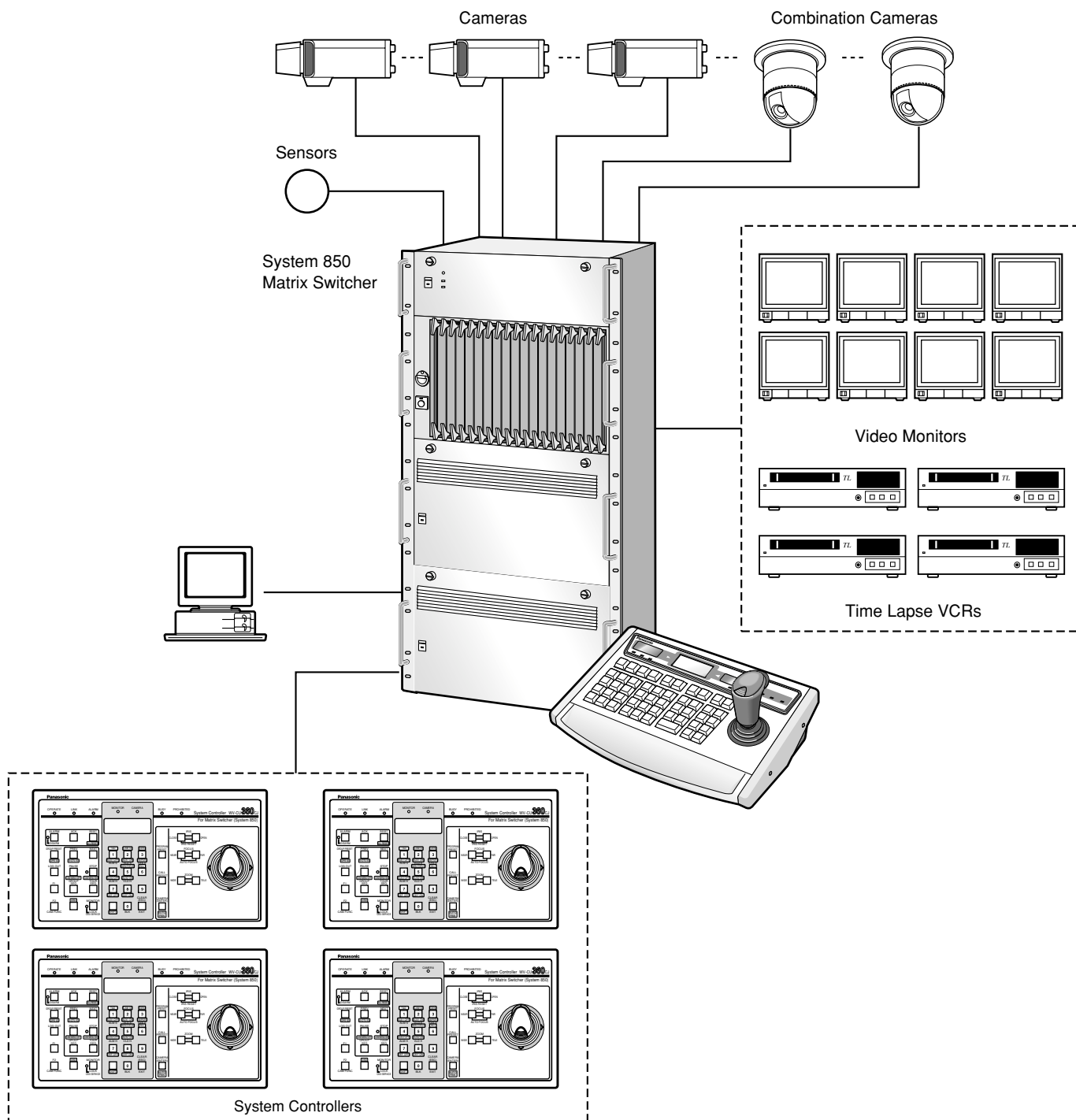
The installation should be made by qualified service personnel or system installers according to the following instructions.

■ System Connections

● Connection Example

The connection example shows a large-scale system having a number of cameras, alarm sensors, monitors and so forth connected to the System 850 Matrix Switcher.

The System Controller WV-CU360CJ provides major operating functions to control the system.

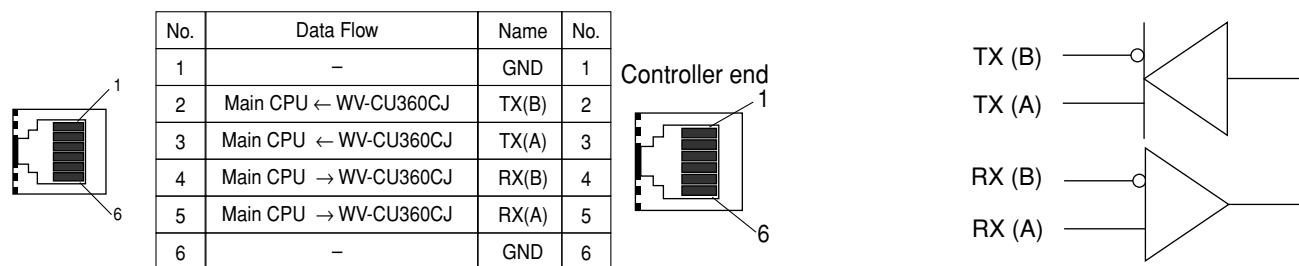


● DATA Port Connection

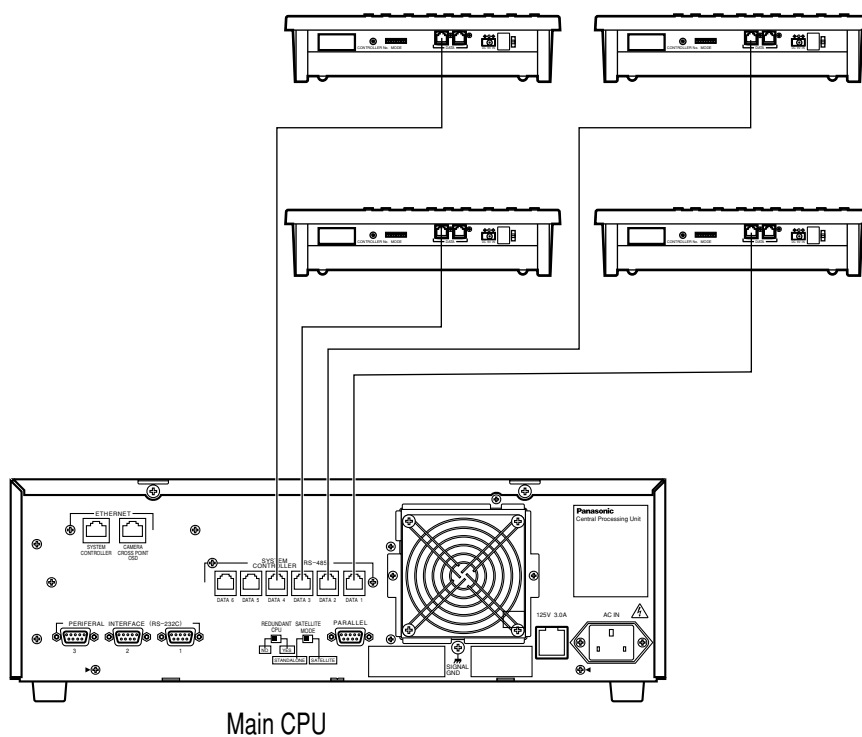
Data ports are connected with RS-485 cables among devices using Camera Communication protocol as follows.

Note: When using cables other than those supplied, make sure to use shielded 4-wire twisted pair cable suitable for RS-485 communication.

• Internal Diagram

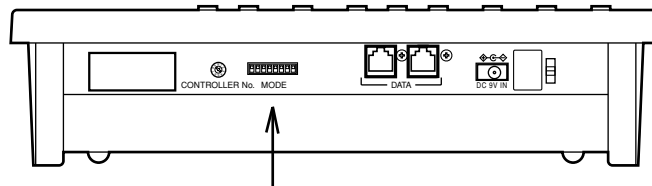


• Basic Connection



■ DIP Switch Setting

An 8-bit DIP switch mounted on the rear panel specifies communication mode, etc. The default position is marked with an asterisk *.



	Function	SW position	
		OFF	ON
Bit 1	Operation mode	*	See below
Bit 2	Operation mode	*	See below
Bit 3	Operation mode	*	See below
Bit 4	Reserved	*	Not used
Bit 5	Line termination	Off	On*
Bit 6	Administrator mode	Off*	On
Bit 7	Baud Rate Selection	Not used	Fixed to ON
Bit 8	Repeat Transmissions	1 time*	3 times

■ Controller Number Setting

Set this switch always to 1 when using the System Controller in a System 850.

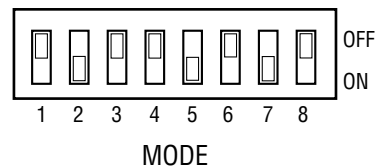


CONTROLLER No.

● Switch Setting Procedures

Set the MODE DIP switch and CONTROLLER NO. switch as follows.

1. Remove the DC plug from the rear of the controller.
2. Set the switches as follows.



- Bit 1 should be set to OFF*.
- Bit 2 should be set to ON.
- Bit 3 should be set to OFF*.
- Bit 4 should be set to OFF*.
- Bit 5 should be set to ON* when connecting with a System 850 in a home run (one to one) fashion.
- Bit 6 should be set to OFF* normally, or ON (Administrator mode) when setting up the controller.
- Bit 7 should be set to ON. The baud rate is selected in the controller setup.
- Bit 8 should be set to OFF* normally.

3. Connect the DC plug to the controller.

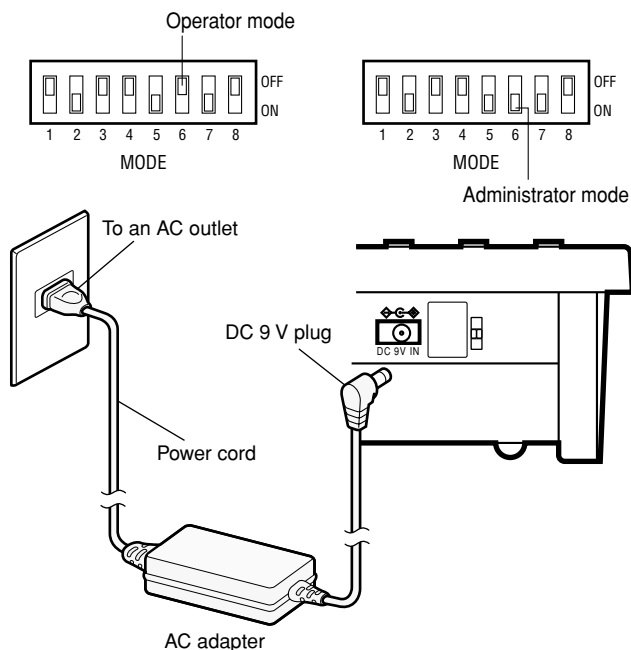
SETUP PROCEDURES (For System 850)

To display the setup menus for the WV-CU360CJ System Controller on the LED display, set the MODE switch and power up the controller as described below.

■ Prior to Setup

Do the following before entering the setup mode.

1. Confirm that all necessary connections and switch settings are complete.
2. With the power turned off, move bit #6 of the MODE switch on the rear to ON position (Administrator mode).
3. Supply power to the controller.
4. Turn on the power of cameras and other system units.
5. The LCD displays [SETUP]. The controller is ready to enter the setup mode.

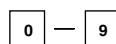


When setup is completed, restore the switch to its original position.

1. With the power turned off, move bit #6 of the MODE switch on the rear to OFF position.
2. Supply the power to the controller.

■ Buttons and Controls Used for Setup

The following buttons and joystick operations are used for setup.



Numeric buttons: To select a parameter



CAM (ENTER) button: To execute modes and parameters
To enter a submenu



CLEAR (ESC) button: To return to the previous menu



Up: To select a setup menu



Down: To select a setup menu



Left: To decrease the parameter



Right: To increase the parameter

■ Setup Procedures

Set up the baud rate and parity check mode for the controller while observing the LED on the front panel.

Menu Selection	Setup Menus				Parameter Selection (default*)
	LED Display	Reading	Function		
No OK	SETUP	Setup	Initial Display	CAM SET	LED prompts you to enter password
	• • • • • blinking	Administrator Password Prompt	Authorization		Enter a 5-digit password, press CAM (12345*) SET
Move Joystick up and down to select  	SPEED	Speed	Baud Rate (bps)	Press twice CAM SET	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
	PrtY	Parity	Parity Check	MON ESC	(1) None* (2) Even

● Administrator Authorization

1. Press the **CAMERA (ENTER)** button while [SETUP] is displayed. The [- - - -] prompt appears.
2. Enter a password using the numeric buttons, then press the **CAMERA (ENTER)** button. The default setting is [12345].
3. If the password entered is valid, [SPEED] appears. If password entry failed, the menu returns to [SETUP].

● Baud Rate

In this menu, the communication speed (bps: bits per second) is selected. The communication speed should match that of the WJ-SX850.

1. Display [SPEED], and press the **CAMERA (ENTER)** button twice.
2. Select a parameter entering a bracket-enclosed number, e.g., (3), moving the joystick. The default setting is 9 600 bps.

- (1) 2 400: 2 400 bps
 (2) 4 800: 4 800 bps
 (3) 9 600: 9 600 bps
 (4) 19 200: 19 200 bps

Note: Selecting a slower rate (e.g., 2 400 bps) will delay the response time (e.g., the time until an activated alarm is reset).

3. Press the **CAMERA (ENTER)** button to validate the selection.
4. Press the **CLEAR(ESC)** button to return to the [SPEED] menu.

● Parity

In this menu, the parity check mode is selected.

1. Display [PrtY] and press the **CAMERA (ENTER)** button twice.
2. Select a parameter with the joystick. The default setting is None.
n: None
E: Even parity
3. Press the **CAMERA (ENTER)** button to validate the selection.
4. Press the **CLEAR(ESC)** button to return to the [SPEED] menu.

Note: The baud rate and parity check mode of the WJ-SX850 and the controller must be the same, otherwise data communications will not function.

OPERATING PROCEDURES (For System 850)

Note: This section describes only some important operations such as log-in, log-out, and different operations from the front panel of the System 850. Please refer to the manual included with the System 850 for further information on camera selection, monitor selection and so forth.

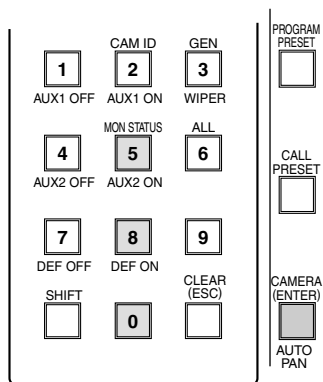
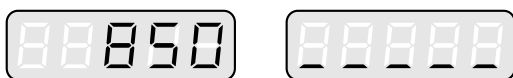
■ Log-in & Log-out

● Log-in

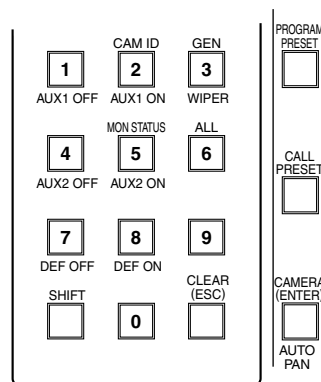
1. Turn on the power switches of all system components.
2. Turn on the power of the WV-CU360CJ System Controller by connecting the AC adapter to the AC outlet.
The OPERATE indicator lights up and "NO USER" will appear on the LED display of the System Controller.



3. Enter your registered Operator ID number (up to 5 digits) using the numeric buttons, then press the **[CAMERA (ENTER)]** button. The underline appears on the LED display.



4. Enter your registered Password (up to 5 digits) using the numeric buttons, then press the **[CAMERA (ENTER)]** button.
If the operator ID and password entered are valid, the LED will display "READY".



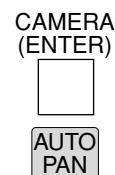
Note: If login has failed (operator or password error), the PROHIBITED indicator on the controller will light up and "NO ACCESS" will blink on the LED display for about 3 seconds. Then the login procedure returns to the start.



● Log-out

1. While holding down the **LOG OUT** button, press the **[CAMERA (ENTER)]** button.

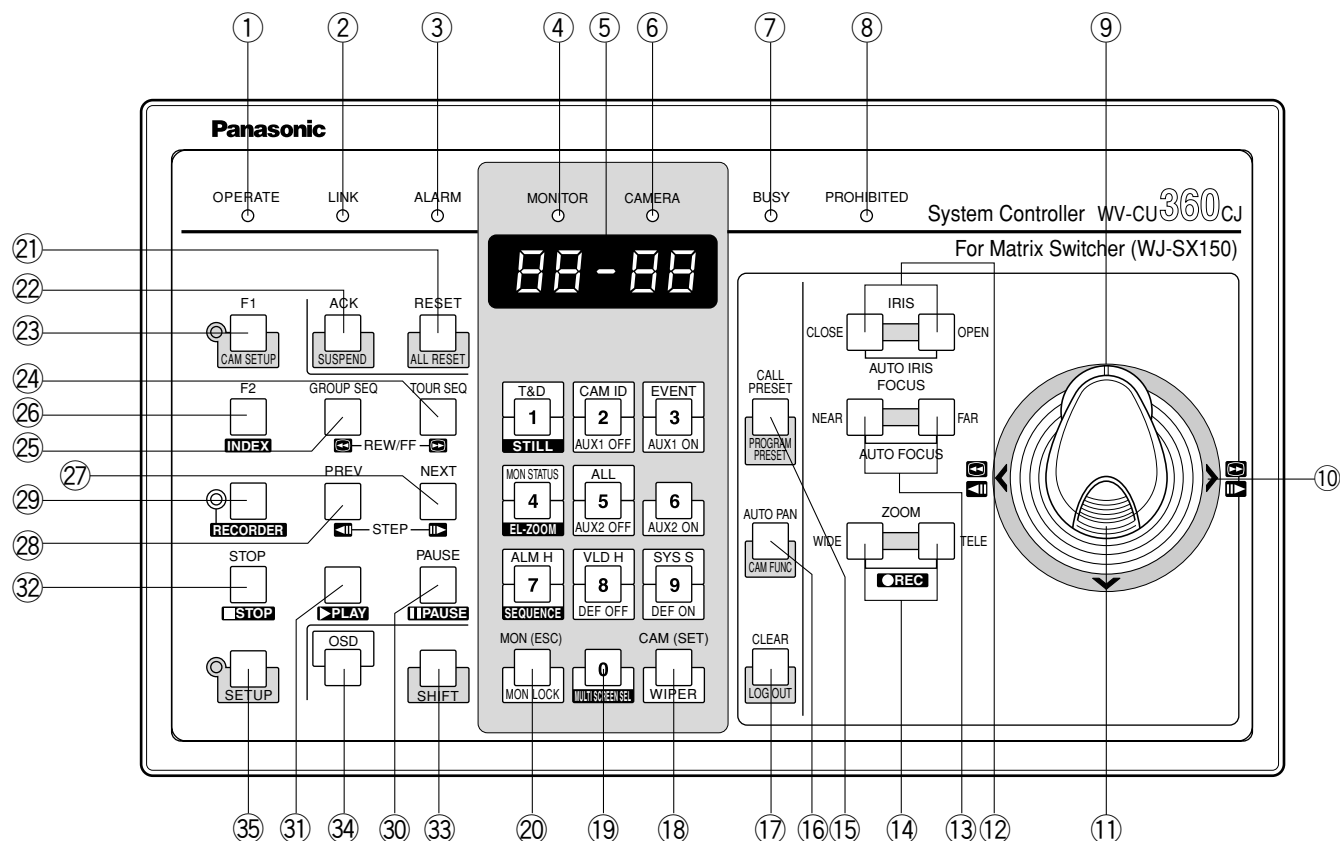
"NO USER" is displayed on the LED display.



For WJ-SX150 Matrix Switcher System

MAJOR OPERATING CONTROLS & THEIR FUNCTIONS

■ Front View (Template for WJ-SX150)



① Operation indicator (OPERATE)

Lights up when the controller's power is turned on.

② Link indicator (LINK)

Lights up when communication is established with the matrix switcher.

③ Alarm indicator (ALARM)

Lights up when an alarm condition exists.

④ Monitor indicator (MONITOR)

Lights up when the monitor number appears on the LED display.

⑤ LED Display

Displays the monitor number, camera number, numeric entry and error status, etc.

⑥ Camera indicator (CAMERA)

Lights up when the camera number appears on the LED display.

⑦ Busy indicator (BUSY)

Lights up when the higher-priority operator selects the camera or monitor you are currently operating. Operations from the system controller are disabled until this indicator goes off.

⑧ Prohibited indicator (PROHIBITED)

Blinks when an operator attempts to control a monitor (or camera) that is already used by a higher-priority operator or the operator has done the prohibited operation.

⑨ Zoom wheel controller

This control is used for zooming cameras equipped with the specific lens. Moving the control to the right will zoom in the image. Moving the control to the left will zoom out the image.

⑩ Joystick

Use this joystick to manually operate cameras, camera site accessories and a recorder, or to move the cursor in SETUP MENU on the active monitor screen.

- ▲: Up
- ▼: Down
- ◀: Left, rewind*, backward field advance*
- ▶: Right, fast-forward*, forward field advance*

*Available after pressing the RECORDER button while connecting to a recorder.

⑪ Top button

Pressing this button will automatically set the lens focus of a specified camera.

⑫ Iris buttons (IRIS CLOSE/OPEN)

Close or open the lens iris of cameras equipped with the specified lens.

Press the CLOSE and OPEN buttons simultaneously. The lens iris is reset to the factory default setting.

⑬ Focus buttons (FOCUS NEAR/FAR)

Adjust the lens focus of cameras equipped with the specified lens.

Press the NEAR and FAR buttons simultaneously. The lens focus is adjusted automatically, if the specified auto focus camera is equipped.

⑭ Zoom buttons (ZOOM WIDE/TELE)

Press these buttons to zoom the lenses equipped with the specified cameras.

Press the WIDE and TELE buttons simultaneously. The recording is started.

⑮ Call Preset button (CALL PRESET/PROGRAM PRESET)

To program the selected camera's preset position, press this button in combination with the numeric buttons. (The specified cameras support this function.)

⑯ Auto Pan button (AUTO PAN/CAM FUNC)

Activates the auto panning function of cameras equipped with this feature.

To execute camera functions, press this button in combination with the numeric buttons. (The specified cameras support this function.)

⑰ Clear button (CLEAR/LOG OUT)

Use this button to clear numeric input on the LED display, or exit from the ALARM HISTORY table, the VIDEO LOSS HISTORY table, or the SYSTEM STATUS table.

To logout of the system, press this button while holding down the SHIFT button.

⑱ Camera (Set) button [CAM (SET)/WIPER]

CAM: To select a camera, press the corresponding numeric button, followed by this button.

SET: To enter numeric input, such as operator ID and password, press this button in combination with the numeric buttons.

Also use this button to execute the currently highlighted selection and go into a submenu of SETUP MENU.

WIPER: To turn on the housing wiper of the camera, press this button while holding down the SHIFT button.

⑲ Numeric buttons

Press these buttons to enter numbers into the system such as the camera and monitor number, sequence number, preset position, etc.

- In combination with the SHIFT button, parameter selection in OSD (On-screen Display), operation of the monitor status or search in a history table become available.

- In combination with the RECORDER button, electronic zooming and multiscreen sequence are available.

⑳ Monitor (Escape) button [MON (ESC)/MON LOCK]

MON: Press this button to select a monitor.

To select a monitor, press the corresponding numeric buttons, followed by the MON (ESC) button.

ESC: Press this button to escape from the currently highlighted selection and return to the previous page of SETUP MENU.

MON LOCK: To prevent other operators from controlling the monitor, press this button while holding down the SHIFT button. To release the lock, press this button while holding down the SHIFT button again.

㉑ Alarm Reset button (RESET/ALL RESET)

RESET: To reset an alarm activated in the currently active monitor, press this RESET button.

ALL RESET: To cancel all activated alarms at a time, press this button while holding down the SHIFT button.

㉒ Alarm Acknowledge button (ACK/SUSPEND)

ACK: Acknowledges an activated alarm.

To select the alarm monitor, press the ALARM button.

To select the desired alarm action number, press the numeric buttons, then press this ACK button. "ACK" will appear on the monitor.

To reset the alarm, press the RESET button after acknowledging the alarm. "ACK" will go out.

SUSPEND: To suspend an activated alarm, press this button while holding down the SHIFT button. "ALM SUSPENDED" will appear on the monitor. To cancel the suspension, press this button while holding down the SHIFT button again.

②③ Function 1 button (F1/CAM SETUP)

Press this button while holding down the SHIFT button to open the camera's SETUP MENU on the active monitor.

The function as the F1 button is reserved for future use.

②④ Tour Sequence button (TOUR SEQ)

Press this button, in combination with the numeric buttons, to run a tour sequence on the active monitor.

②⑤ Group Sequence button (GROUP SEQ)

Press this button to select a group sequence.

To select a group, press the corresponding numeric buttons, followed by the GROUP SEQ button.

②⑥ Function 2 button (F2/INDEX)

Displays date and time entry form during the recorder mode.

②⑦ Next button (NEXT)

Moves a tour sequence one step forward from the step previously paused on the active monitor.

Also selects a camera. If the active monitor is in the spot mode, press NEXT while holding down the CAM (SET) button, to replace the currently selected camera with the next higher-numbered camera.

During the recorder mode, this button moves the playback image one step forward.

②⑧ Previous button (PREV)

Moves a tour sequence one step backward from the step previously paused on the active monitor.

Also selects a camera. If the active monitor is in spot mode, press PREV while holding down the CAM (SET) button, to replace the currently selected camera with the next lower-numbered camera.

During the recorder mode, this button moves the playback image one step forward.

②⑨ Recorder button (RECORDER)

To enter the recording mode, press this button.

Note: Only one operator can enter the recorder mode at one time.

③⑩ Pause button (PAUSE)

Pauses a tour sequence, and the playback of the recorded images* that is being run on the active monitor.

Also restarts the sequence from the next step forward, or the playback of the recorded images*.

③⑪ Play button (PLAY)

Starts the playback of the recorded images*.

③⑫ Stop button (STOP)

Ends a tour sequence, or stops the playback of the recorded images* that is being run on the active monitor.

③⑬ Shift button (SHIFT)

To activate these functions, press this button, in combination with buttons associated with special functions.

③⑭ On-screen Display button (OSD)

Toggles the currently selected display items on the active monitor.

1: Clock display (T&D)

2: Camera title display (CAM ID)

3: Event display (EVENT)

4: Monitor status display (MON STATUS)

5: All displays (ALL)

7: ALARM HISTORY table (ALM H)

8: VIDEO LOSS STATUS table (VLD H)

9: SYSTEM STATUS table (SYS S)

③⑮ Setup button (SETUP)

To display the unit's SETUP MENU, press this button while holding down the SHIFT button.

* The playback of the recorded images is possible when a recorder is connected.

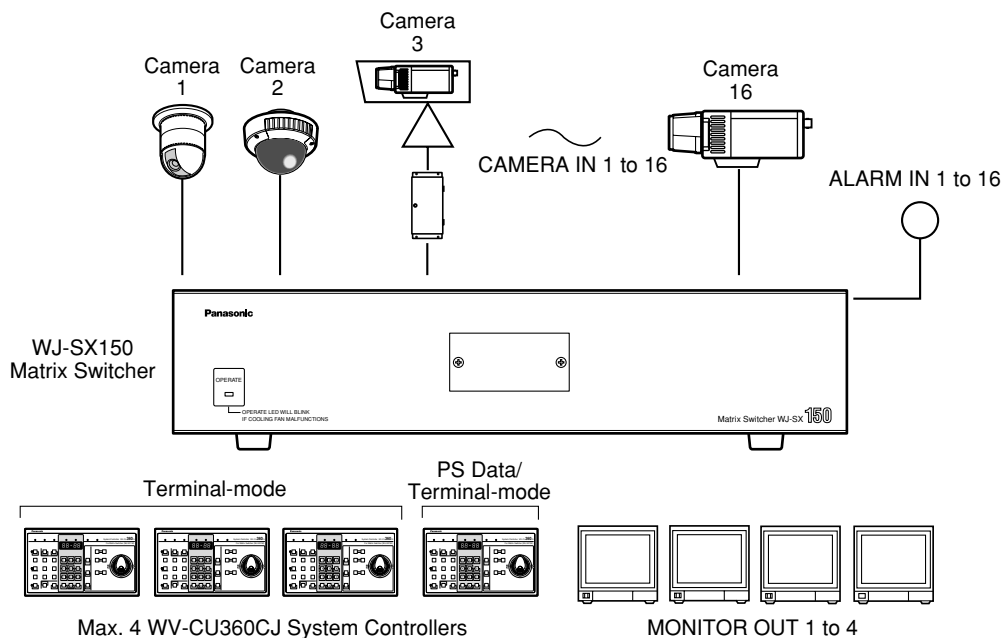
INSTALLATIONS (For WJ-SX150)

CAUTION

The installation should be made by qualified service personnel or system installers according to the following instructions.

■ System Connections

● Connection Example

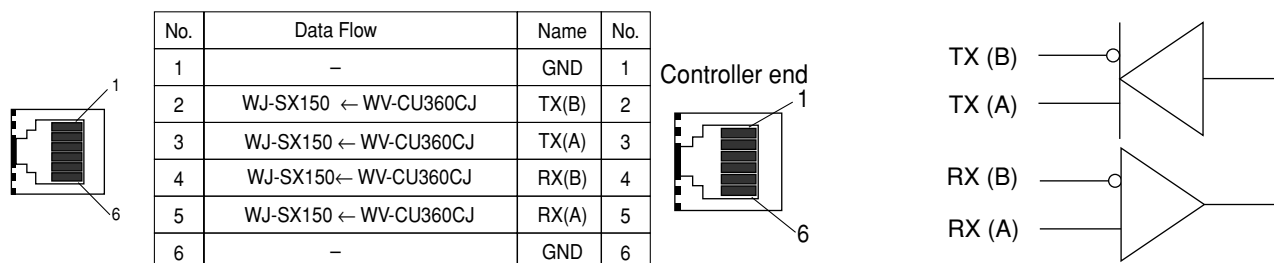


● DATA Port Connection

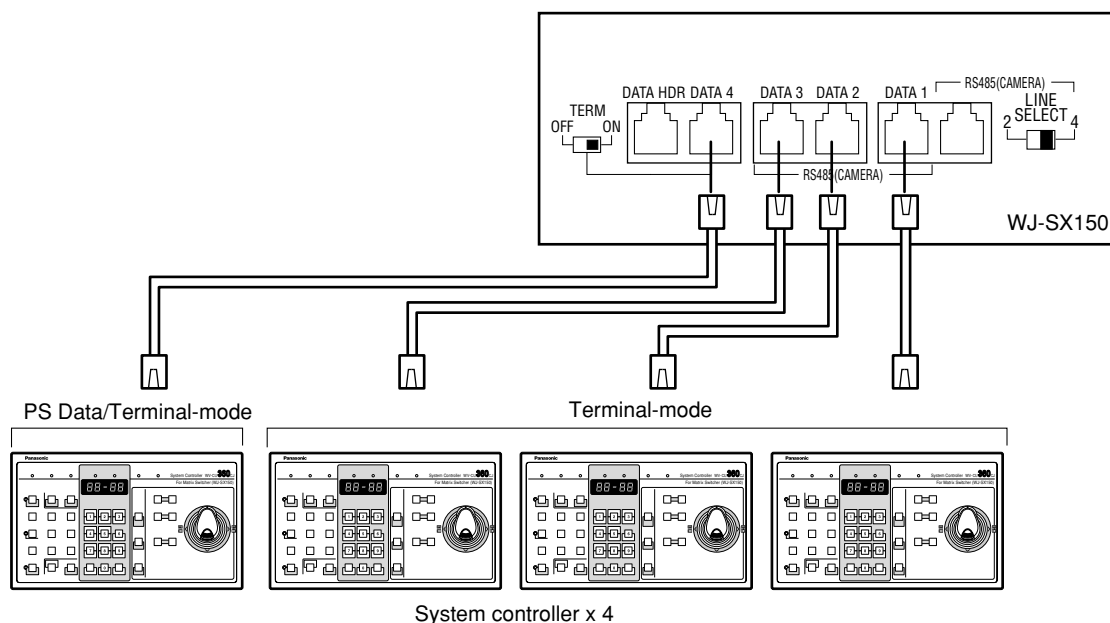
Data ports are connected with RS-485 cables among devices.

Note: When using cables other than those supplied, make sure to use shielded 4-wire twisted pair cable suitable for RS-485 communication.

• Internal Diagram



● Basic Connection

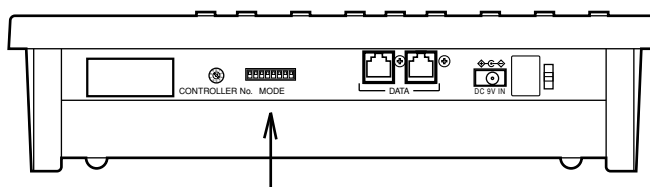


Note: The DATA 4 port is compatible with PS Data (default) or Terminal-mode protocol by setting. For setting, refer to the Operating Instructions included with the WJ-SX150.

■ DIP Switch Setting (Terminal-mode)

An 8-bit DIP switch mounted on the rear panel specifies communication mode, etc. The default position is marked with an asterisk *.

When you use PS Data, refer to page 15, DIP switch setting (PS Data).



	Function	SW position	
		OFF	ON
Bit 1	Operation mode	*	See below
Bit 2	Operation mode	*	See below
Bit 3	Operation mode	*	See below
Bit 4	Reserved	*Fixed to OFF	Not used
Bit 5	Line termination	Off	On*
Bit 6	Administrator mode	Off*	On
Bit 7	Baud Rate Selection	Not used	Fixed to ON
Bit 8	Repeat Transmissions	1 time*	3 times

■ Controller Number Setting

Set this switch always to 1 when using the System Controller with a WJ-SX150.

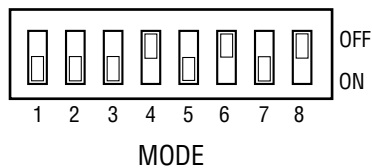


CONTROLLER No.

● Switch Setting Procedures

Set the MODE DIP switch and CONTROLLER NO. switch as follows.

1. Remove the DC plug from the rear of the controller.
2. Set the switches as follows.



- Bit 1 should be set to ON*.
- Bit 2 should be set to ON.
- Bit 3 should be set to ON*.
- Bit 4 should be set to OFF*.
- Bit 5 should be set to ON* when connecting with a WJ-SX150 in a home run (one to one) fashion.
- Bit 6 should be set to OFF* normally, or ON (Administrator mode) when setting up the controller.
- Bit 7 should be set to ON. The baud rate is selected in the controller setup.
- Bit 8 should be set to OFF* normally.

3. Connect the DC plug to the controller.

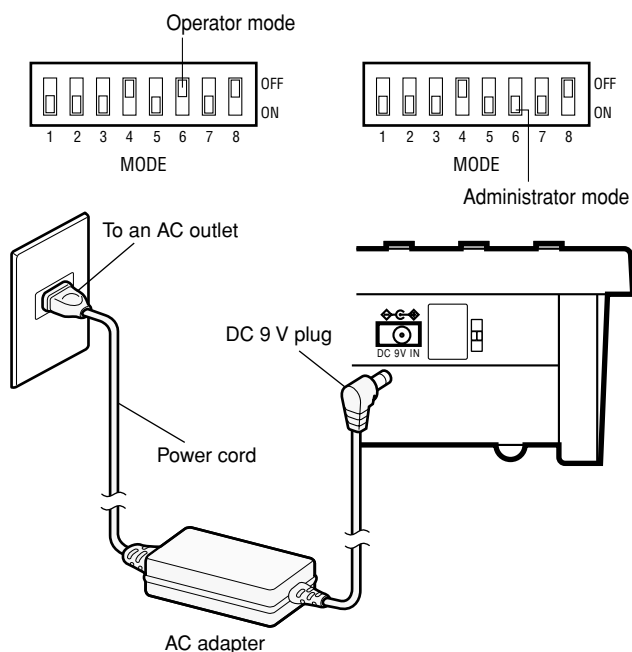
SETUP PROCEDURES (For WJ-SX150)

To display the setup menus for the WV-CU360CJ System Controller on the LED display, set the MODE switch and power up the controller as described below.

■ Prior to Setup

Do the following before entering the setup mode.

1. Confirm that all necessary connections and switch settings are complete.
2. With the power turned off, move bit #6 of the MODE switch on the rear to ON position. (administrator mode)
3. Supply power to the controller.
4. Turn on the power of cameras and other system units.
5. The LCD displays [SETUP]. The controller is ready to enter the setup mode.



When setup is completed, restore the switch to its original position.

1. With the power turned off, move bit #6 of the MODE switch on the rear to OFF position.
2. Supply the power to the controller.

■ Buttons and Controls Used for Setup

The following buttons and joystick operations are used for setup.

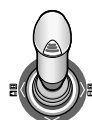
— Numeric buttons: To select a parameter



CAM (SET) button: To execute modes and parameters
To enter a submenu



MON (ESC) button: To return to the previous menu



Up: To select a setup menu



Down: To select a setup menu



Left: To move the cursor to the left



Right: To move the cursor to the right

PREV



To decrease the parameter



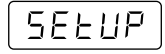
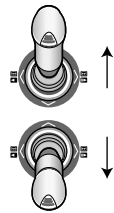
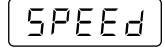
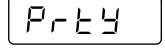
NEXT



To increase the parameter

■ Setup Procedures

Set up the baud rate and parity check mode for the controller while observing the LED on the front panel.

Menu Selection	Setup Menus				Parameter Selection (default*)
	LED Display	Reading	Function		
No  OK		Setup	Initial Display	CAM (SET)  →	LED prompts you to enter password
	 blinking	Administrator Password Prompt	Authorization		Enter a 5-digit password, press CAM (SET) (12345*) 
Move Joystick up and down to select 		Speed	Baud Rate (bps)	Press twice CAM (SET)  →	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
		Parity	Parity Check	MON (ESC)  ←	(1) None* (2) Even

● Administrator Authorization

1. Press the **CAM (SET)** button while [SEtUP] is displayed. The [- - - -] prompt appears.
2. Enter a password using the numeric buttons, then press the **CAM (SET)** button. The default setting is [12345].
3. If the password entered is valid, [SPEED] appears. If password entry failed, the menu returns to [SEtUP].

● Baud Rate

In this menu, the communication speed (bps: bits per second) is selected. The communication speed should match that of the WJ-SX150.

1. Display [SPEED], and press the **CAM (SET)** button twice.
2. Select a parameter entering a bracket-enclosed number, e.g., (3), moving the joystick. The default setting is 9 600 bps.

- (1) 2 400:** 2 400 bps
(2) 4 800: 4 800 bps
(3) 9 600: 9 600 bps
(4) 19 200: 19 200 bps

Note: Selecting a slower rate (e.g., 2 400 bps) will delay the response time (e.g., the time until an activated alarm is reset).

3. Press the **CAM (SET)** button to validate the selection.
4. Press the **MON (ESC)** button to return to the [SPEED] menu.

● Parity

In this menu, the parity check mode is selected.

1. Display [PrtY] and press the **CAM (SET)** button twice.
2. Select a parameter with the joystick. The default setting is None.
n: None
E: Even parity
3. Press the **CAM (SET)** button to validate the selection.
4. Press the **MON (ESC)** button to return to the [SPEED] menu.

Note: The baud rate and parity check mode of the WJ-SX150 and the controller must be the same, otherwise data communications will not function.

OPERATING PROCEDURES (For WJ-SX150)

Before starting the following procedures, all system components must be turned on.

The following procedures are applicable when the system controller is connected to the unit.

■ Log-in

This operation is skipped when the auto log-in is set to ON.

1. Turn on the power switches of all system components.
The OPERATE indicator will light up.
2. To turn on the power of the system controller, connect the AC adapter to the AC outlet.
The LINK indicator lights up and "NO USER" appears on the LED display of the system controller.

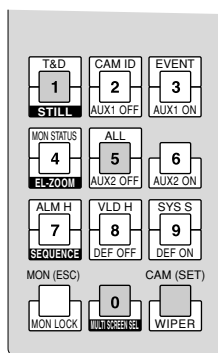
NOUSER

3. To select your registered operator ID number (1 to 16, up to 2 digits) , press the numeric buttons, then press the CAM (SET) button.

The underline appears on the LED display of the controller.

The factory default setting is 150.

150

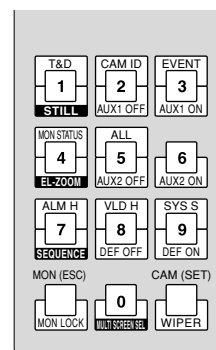


4. To select your registered password (up to 5 digits), press the numeric buttons, then press the CAM (SET) button.

The factory default setting is 150.

If the operator ID and password are correct, "READY" will appear on the LED display.

READY



Note: If an operator ID and password error occur, the PROHIBITED indicator on the controller will blink and "NO ACCESS" will blink on the LED display for about 3 seconds. Then "NO USER" appears on the LED display. Return to step 3 and select your operator ID.

READY

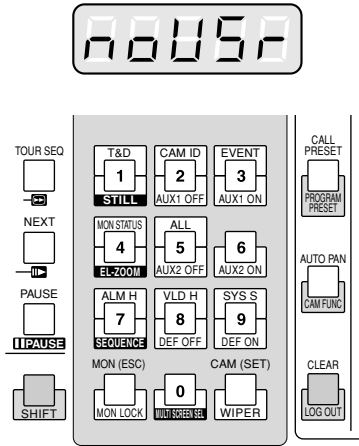
Note: If the auto log-in is set to ON, any operator can login automatically. After the controller is turned on, "AUTO" appears on the LED display for approximately 2 seconds, then "READY" automatically appears.

■ Log-out

This operation is skipped when the auto log-out is set to ON.

This function is used when an operator leaves the controller or no longer requires access to the system.

1. To log out from the system press the CLEAR button while holding down the SHIFT button.
"NO USER" appears on the LED display of the controller.



Notes:

- If you want to save the power consumption, disconnect the PC plug from the controller, and remove the AC adapter from the AC outlet.
- If the auto log-out is set to ON, any operator can logout automatically if no operation takes place for a specific time. "NO USER" automatically appears on the LED display.
- The time to logout is configurable through SX150 Admin Console.

■ Auto Log-in

If the auto log-in is set to ON, any operator can login automatically. After the controller is turned on, "AUTO" appears on the LED display for approximately 2 seconds, then "READY" automatically appears.

Auto log-in is configurable through SX150 Admin Console.



■ Auto Log-out

If the auto log-out is set to ON and no operation takes place for a specific time, any operator can logout automatically. "NO USER" automatically appears on the LED display.



Auto log-out and the time to logout are configurable through SX150 Admin Console.

Appendix

SPECIFICATIONS

<Controller>

Power Source:	9 V DC, 400 mA (Use the supplied AC Adapter only)
Data Output/Input Port:	6-conductor modular jack (RS-485, Full Duplex) x2
Switching Functions :	Camera selection, Monitor Selection/Sequence Switching of Live and Playback/Changing the Multiscreen Picture Layout/ Still/Electronic Zoom/Sequence
Controller Number	1 to 8 (Rotary Switch)
Unit Address Selection:	1 to 99 (for PS•Data), 1-16 (WJ-FS616/616C)
Monitor Number Selection:	1 to 99 (for PS•Data)
Camera Number Selection:	1 to 199 (for PS•Data)
Lens Functions:	Iris: Open/Close/Preset (only with DC control lens) Focus: Near/Far/Auto Focus Zoom: Wide/Tele Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off Manual Pan: Right/Left Manual Tilt: Up/Down Auto Pan, Auto Sort, Auto Sequence, Random Pan, Preset Position, Home Position, Camera Patrol Camera Setup Camera Function Alarm (Display/Suspend/Recall/Reset) Setup
Housing:	–10°C to +50°C (14°F - 122°F) Less than 90 %
Pan/Tilt:	300 (W) mm x 74 (H) mm x 177 (D) mm [11-13/16" (W) x 2-15/16" (H) x 6-15/16" (D)]
Other Camera Controls:	1.3 kg (2.9 lbs.)
System Operation:	
Ambient Operating Temperature:	
Ambient Operating Humidity:	
Dimensions:	
Weight:	

<AC Adapter>

Input	
Power Source:	100 V to 240 V AC, 50 Hz/60 Hz
Power Consumption:	10 W
Output	
Power Source:	9 V DC
Power Consumption:	1 A

Dimensions and weight are approximate.
Specifications are subject to change without notice.

STANDARD ACCESSORIES

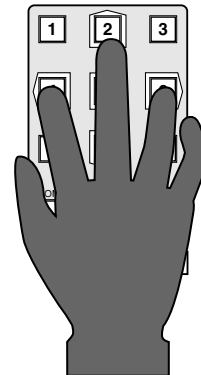
AC Adapter	1 pc	Panel Template for WJ-FS616/616C	1 pc
Power cord (For U.K.)	1 pc	Panel Template for System 850.....	1 pc
Power cord (For outside U.K.)	1 pc	Panel Template for WJ-SX150.....	1 pc
6-conductor Modular Cable Assembly	1 pc		
Palm rest	1 pc		

ALL RESET

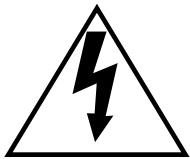
The System Controller WV-CU360CJ can be reset to the default settings.

1. Remove the DC plug of the AC adapter from the controller.
2. While pressing numeric buttons **2**, **4** and **6** simultaneously, plug in the DC plug.
3. When all indicators light up, resetting is completed.

Note: Keep the DC plug connected to the controller until the reset procedure is completed.



中 文



在正三角形中闪烁的箭头符号，用以提醒用户在本产品附近出现较大的非绝缘“危险电压”足以对人体产生触电。



在正三角形中的注意号，用以提醒用户参考有关该机的重要操作与维修的文字说明。

警告：请勿将本装置置于雨水、潮湿的环境中，以免发生火灾或触电。为防止水滴溅入，请不要将盛有液体的容器（如花瓶）放置在本装置上。

请注意：
在进行本机的接线或操作之前，请阅读底面的标签。

本产品的制造号码标示于装置的背面。
请在下面空白处填上本机的制造号码，并将此说明书妥加保存，以便万一遭窃时查核。

型号: _____ WV-CU360CJ _____

制造号码: _____

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前言

系统控制器WV-CU360CJ可用于安装在监控系统中的摄像机和其他系统设备设置和操作。

控制器初始与Panasonic安全数据(PS•Data)协议兼容，但是也提供了DIP开关以便选择与视频复用器WJ-FS 616C或者矩阵转换开关WJ-SX850一起使用方便的通讯协议。随机提供的模板可以使印在按钮上的名称适应所要控制的设备的功能。

可以通过控制器操纵整个系统。例如，选择摄像机

和监视器，观察监视器和指示灯，以及控制摇动/俯仰镜头和其他摄像机功能。

特点

主要特点

- 摄像机频道选择
- 监视器选择
- 报警(显示/挂起/再呼出/复位)
- 摄像机及系统设备设置

摄像机控制

- 镜头功能：光圈/聚焦/自动聚焦/变焦距
- 摄像机外罩：除霜/雨刷/辅助1，2
- 摇动/俯仰：慢摇动/慢俯仰/自动摇动/自动排序/自动序列/随机摇动/预置/起始/摄像机巡视
- 摇动/俯仰的单独控制，变焦距和自动聚焦功能。

在PS•Data模式或者WJ-FS616系统

- 实时与回放切换/改变多画面图象配置的数目/电子变焦距/序列
- 系统设备选择

注意事项

- 应由有资格的维修人员或系统安装人员进行与安装本产品的全部工作。
- 不要试图拆开设备。
为了避免触电，不要拆卸螺丝或机盖。
机箱内没有用户可自行维修的部件。有必要时应请有资格的维修人员进行维修。
- 小心轻放本设备。
避免冲击和振动，以免损坏设备。
- 不要将设备暴露在水或潮湿环境中，不要在潮湿地区操作设备。
设备受潮要立即采取措施。立即关断电源，并请有资格的维修人员进行维修。潮湿会损坏设备，也有造成触电的危险。

- 清洁设备表面时，不要使用过强或带有摩擦性的清洁剂。

当设备有污垢时，可用干布清洁。

当污物难以去除时，可用柔和清洁剂轻轻擦拭。

- 不要在规定温度、湿度或电源电压以上使用本设备。

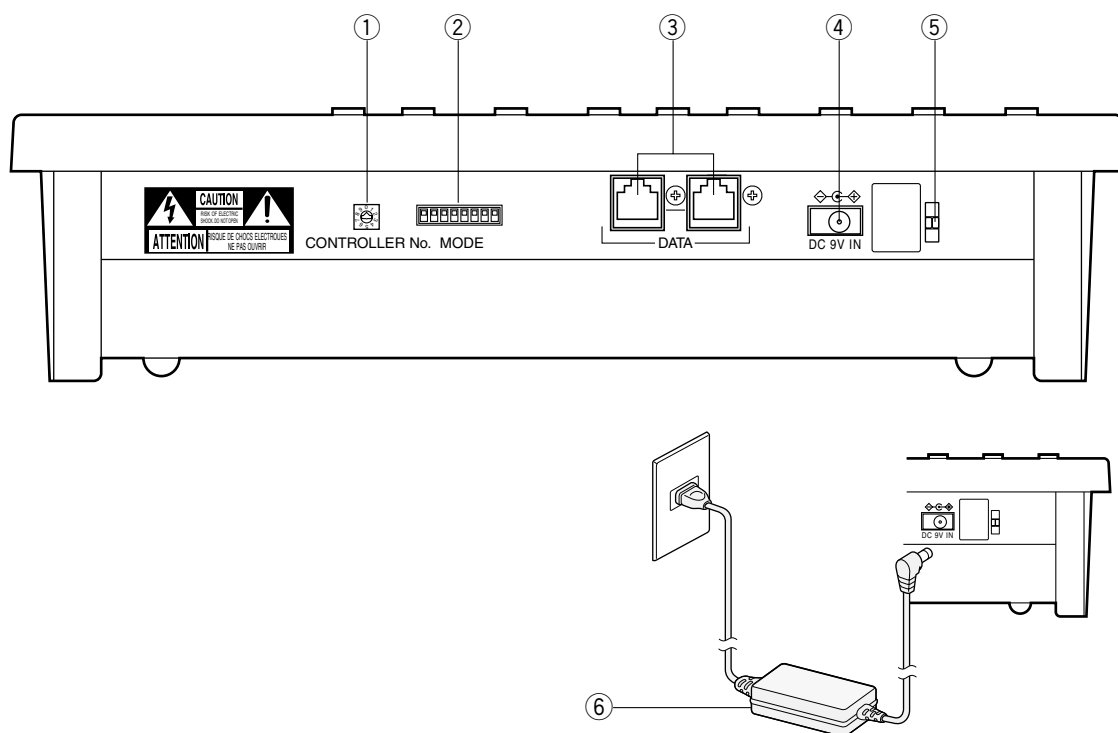
不要在有高温或高湿的极端条件下使用本设备。应在-10℃至+50℃的温度之间和90%湿度以下，使用本设备。本设备的输入电源电压是230 V至240 V，交流50 Hz，使用本机附带的交流适配器。

- 除了本机附带的交流适配器以外，不要使用其他交流适配器。

请仅使用本装置附带的电源线。请勿使用其它电源线。请勿将本装置附带的电源线用于其它装置。

主要操作控制器及其功能

■ 背面视图和交流适配器



① 控制器号码开关(CONTROLLER No.)

此开关用于在由多台系统控制器构成的系统中，设置识别系统控制器的控制器号码(见第92页)。一个系统可有多达四台系统控制器。

② 模式选择开关(MODE)

DIP开关用于设置系统控制器的通讯参数。

③ 数据端口(DATA)

这些端口用于通过随机提供的RS-485电缆与连接的系统设备交换数据。

④ 直流9 V输入插口(DC 9V IN)

连接随机提供的交流适配器的直流插头的插口。

⑤ 线卡

此线卡用于夹紧交流适配器的电源线。

⑥ 交流适配器

注意：

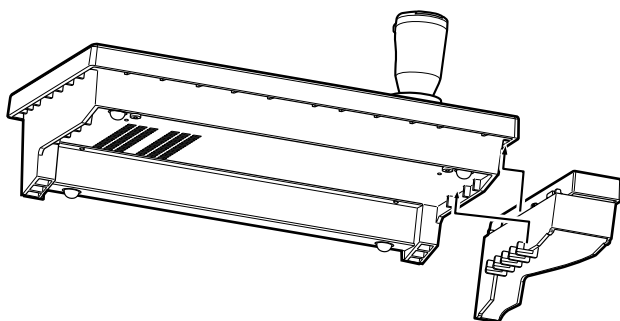
只能用随机提供的交流适配器为系统控制器提供9 V直流电。

注：在设置控制器号码开关或者模式选择开关之前从控制器上取下插头，设置完成后再插回去。电源接通时新的设置开始起作用。

安装

■ 支手板的安装

将支手板的突出部分挂在系统控制器上。

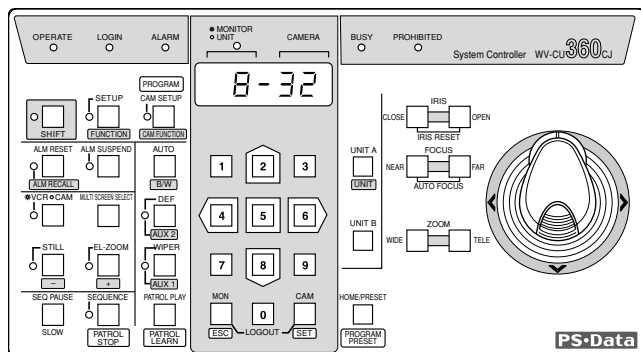


注: 此部分没有螺丝固定。用此支手板时, 应放置系统控制器在水平位置。

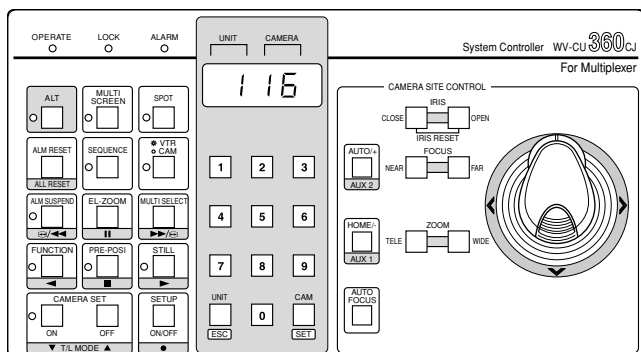
■ 模板安装

系统控制器提供四种模板, 其中供PS•Data系统用的一种模板在从工厂中运出的时候放在控制器的表面(还没有用胶带贴牢)。

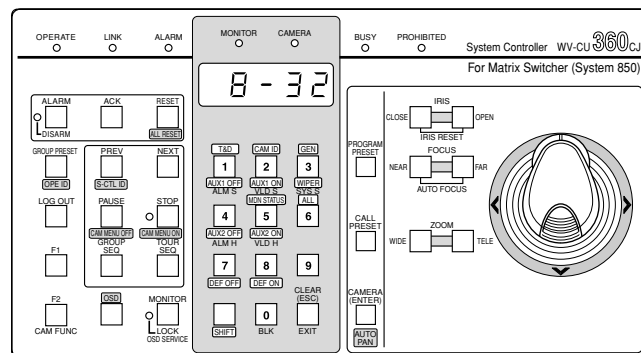
适用于PS•Data



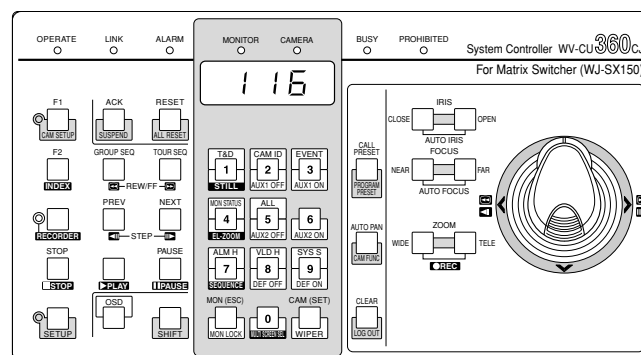
适用于FS616C



适用于SX850



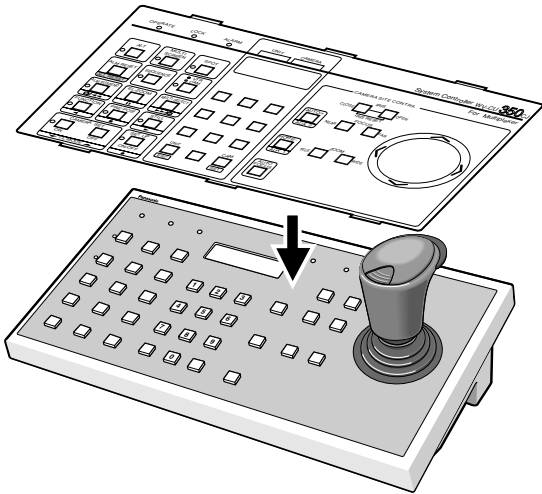
适用于SX150



1. 为系统选择正确的模板。

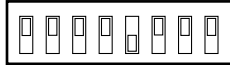
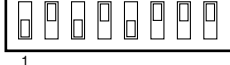
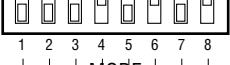
- 如果系统为下述情况之一, 则选择PS•Data模板。
视频复用器(WJ-FS309/316/409/416)
数字硬盘录像机(WJ-HD100/500A)
数据复用器(WJ-MP204C)
- 如果系统中包括WJ-FS616C视频复用器, 则选择标有“For Multiplexer”的模板。
- 如果系统中包括WJ-SX850矩阵转换开关, 则选择标有“For Matrix Switcher(系统SX850)”的模板。
- 如果系统中包括WJ-FX150矩阵转换开关, 则选择标有“For Matrix Switcher (WJ-FX150)”的模板。

2. 剥下衬条，将模板固定在控制器正面板的导引槽中。



■ 背面板开关设置(总结)

在控制器的后面有一个8位DIP开关和一个旋转开关用于指定操作模式和通讯参数。开关的设置根据系统结构而定。开关的设置位置总结如下所示。详情参见各个系统所提供的关于开关设置的描述。

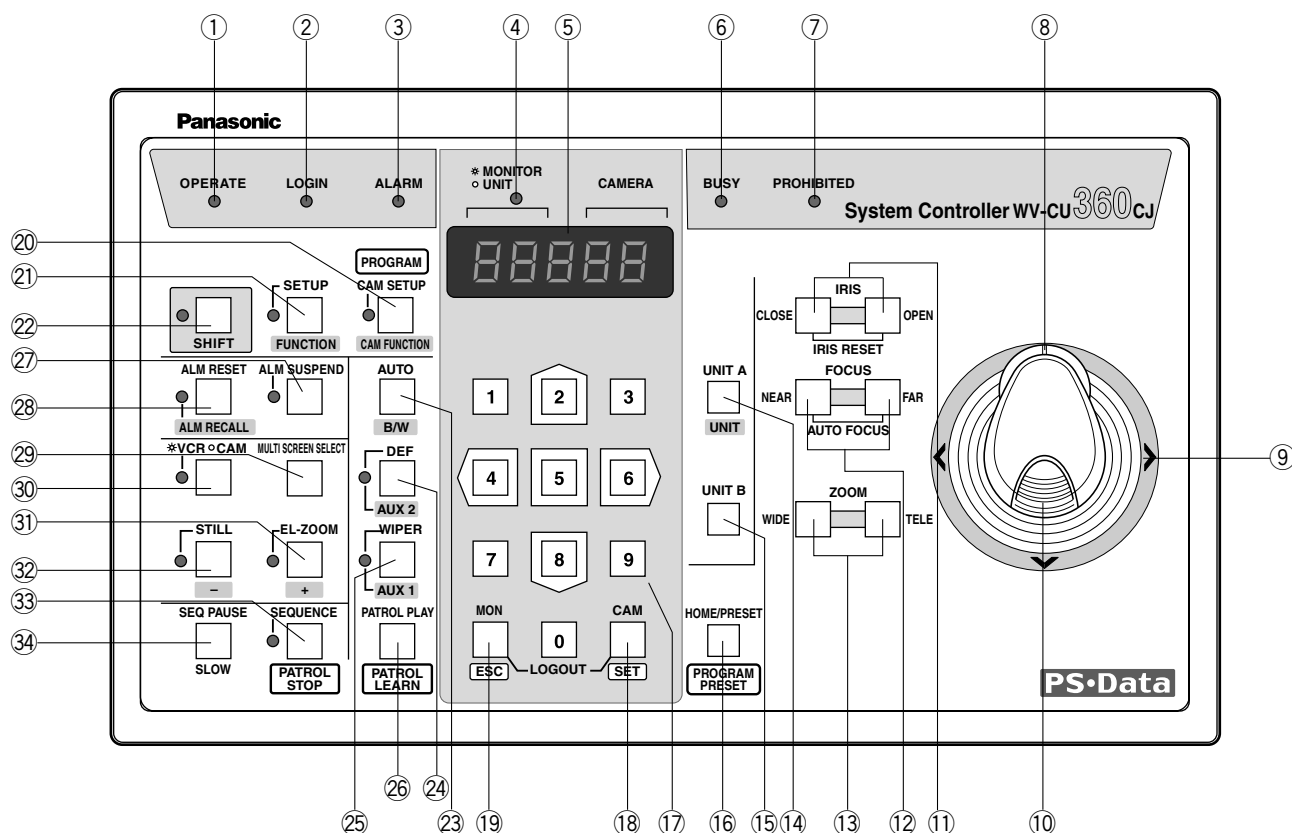
系统	控制器号码开关	MODE DIP SW
PS•Data	 见第94页 CONTROLLER No.	 OFF ON 1 2 3 4 5 6 7 8 MODE
WJ-FS616C	 #1 CONTROLLER No.	 OFF ON 1 2 3 4 5 6 7 8 MODE
WJ-FS616	 #1 CONTROLLER No.	 OFF ON 1 2 3 4 5 6 7 8 MODE
System 850 WJ-SX850 系统850	 #1 CONTROLLER No.	 OFF ON 1 2 3 4 5 6 7 8 MODE
WJ-SX150	 #1 CONTROLLER No.	 ON 1 2 3 4 5 6 7 8 MODE

	功能
位 1	操作模式
位 2	操作模式
位 3	操作模式
位 4	保留
位 5	线路终端
位 6	管理员模式
位 7	波特率选择
位 8	数据传输模式

Panasonic安全数据 (PS•Data)系统

主要操作控制器及其功能

■ 正面视图(PS•Data模板)



① 工作指示灯(OPERATE)

电源提供给系统控制器时点亮。

② 登录指示灯(LOGIN)

与PS•Data兼容系统设备的通讯建立起来时点亮。

③ 报警指示灯(ALARM)

报警激活时闪烁。
当报警自动复位时，此灯由闪烁转为稳定点亮。
按下报警复位按钮可熄灭此灯。

④ 监视器/装置指示灯(* MONITOR/○ UNIT)

当此指示灯点亮时，显示监视器号码。当它熄灭时显示设备地址。

⑤ LED显示

通过LED显示可以确认监视器或者设备的号码以及当前所控制的摄像机的号码。
它也显示数字输入和出错状态等。
当初始通讯建立起来时显示监视器或者设备的号码。

⑥ 忙指示灯(BUSY)

当试图控制某个已经由较高优先级别的操作人员所控制的系统设备或者摄像机时，或者当较高优先级别的操作人员选择了你当前所操作的系统设备或者摄像机时点亮。
在此指示灯熄灭以前不能从系统控制器进行操作。

⑦ 禁用指示(PROHIBITED)

当试图使用操作级别所禁止操作的功能时点亮。

⑧ 变焦距轮型控制器

当摄像机上装有指定镜头时，用此控制器可调节镜头变焦距。向右转动控制器将景物扩大，向左转动控制器将景物缩小。

⑨ 操作杆控制器

此操作杆用于手工操作摄像头的摇动和俯仰或在激活的监视器屏幕上的设置菜单中移动光标。

操作杆可以在8个方向上移动。

在需要的位置上保持按下操作杆，可使光标在设置菜单中持续移动。(见第95页)

▲: 向上
▼: 向下
◀: 向左
▶: 向右

⑩ 上端按钮

按下这个按钮自动地设置指定摄像机的镜头聚焦。

⑪ 光圈按钮(IRIS, CLOSE/OPEN)

这二个按钮用于关闭或打开装有指定镜头的摄像机的光圈。

当同时按下这二个按钮，镜头光圈复位到出厂时的初始值。

⑫ 聚焦按钮(FOCUS, NEAR/FAR)

这二个按钮用于调整装有指定镜头的摄像机的聚焦。

当同时按下这二个按钮，如果指定摄像机正在使用，则镜头聚焦自动设置。

⑬ 变焦距按钮(ZOOM, WIDE/TELE)

如果摄像机装备了特定镜头，此按钮可以缩放图像。

⑭ 装置A/装置按钮(UNIT A/UNIT)

在多装置系统中选择指定的系统设备。要选择一个装置，在用数字按钮输入装置号后按下此按钮。若要确认装置号码，按下SHIFT按钮后再按下此按钮。选中的设备地址出现在LED显示区。被指定为1号的装置可用按此按钮来选择。

⑮ 装置B按钮(UNIT B)

在多装置系统中选择指定的系统设备。要选择一个装置，在用数字按钮输入装置号后按下此按钮。选中的设备地址出现在LED显示区。按此按钮可以选择分配为号码1的系统设备。

⑯ 位置/预置/编程预置按钮

(HOME/PRESET/PROGRAM PRESET)

此按钮用于使指定的摄像机回到起始位置。

与数字按钮组合使用时，此按钮也用于给指定的摄像机设置一个预置位置。

按住编程/摄像机设置/摄像机功能按钮，再按下此按钮，可以对预置位置编程。

⑰ 数字按钮(0-9)

这些按钮用于输入数字，例如摄像机，监视器和装置号码以及预置位置等。

⑱ 摄像机/设置按钮(CAM/SET)

CAM: 用于选择摄像机。要选择摄像机，用数字按钮输入摄像机的号码然后按下此按钮。

SET: 在设置菜单中执行当前高亮的设置。

与MON/ESC按钮同时按下此按钮约2秒，可从系统中退出。

⑲ 监视器/退出按钮(MON/ESC)

MON: 用于监视器选择与确认。要选择监视器，用数字按钮输入监视器的号码然后按下此按钮。

所选的监视器号码出现在LED显示区。

要确认监视器号码，按下此按钮即可。

ESC: 此按钮用于退出当前高亮的选项，回到设置菜单中的前一级菜单。

与CAM/SET按钮同时按下此按钮约2秒，可从系统中退出。

⑳ 编程/摄像机设置/摄像机功能按钮

(PROGRAM/CAM SETUP/CAM FUNCTION)

对摄像机巡视学习和预置位置功能进行编程。

按下此按钮2秒钟以上，可打开摄像机设置菜单。按下转换按钮后与数字按钮一起按下此按钮，可执行摄像机功能。

摄像机设置过程中，此按钮旁边的LED显示点亮。

㉑ 设置/功能按钮(SETUP/FUNCTION)

按下此按钮2秒钟以上，可打开系统设备设置菜单。

SHIFT指示灯点亮时提供对系统设备功能的操作。用数字按钮输入一个功能号码，然后按此按钮。

设置过程中，此按钮旁边的LED显示点亮。

㉒ 转换按钮(SHIFT)

在正常与按钮下面模板上所示的半灰度打印转换模式之间转换按钮功能。在转换模式下，按钮旁边的LED显示点亮。

㉓ 自动摇动/黑白按钮(AUTO/B/W)

按下此按钮可激活提供自动摇动功能的摄像机的此项功能。在转换模式下按此按钮可以将摄像机画面从彩色转换为黑白以便对暗处看得更清楚。

AUTO PAN ON或者组合摄像机功能: 只按此按钮或者按数字按钮1然后按此按钮。

自动排序开(AUTO SORT ON): 按下此按钮后按数字按钮2。

自动序列开(AUTO SEQ ON): 按下此按钮后按数字按钮3。

随机摇动开(RANDOM PAN ON): 按下此按钮后按数字按钮4。

②4 除霜/辅助2按钮(DEF/AUX 2)

按下此按钮可激活提供此项功能的摄像机的摄像机外罩除霜功能。按下转换按钮后, 按下此按钮可打开与摄像机或系统连接的AUX 2按钮控制。选中除霜或AUX 2功能时, 此按钮旁边的LED显示点亮。

②5 雨刷/辅助1按钮(WIPER/AUX 1)

按下此按钮可激活提供此项功能的摄像机的摄像机外罩雨刷功能。按下转换按钮后, 按下此按钮可打开与摄像机或系统连接的AUX 1按钮控制。选中除霜或AUX 1功能时, 此按钮旁边的LED显示点亮。

②6 巡视回放/巡视学习按钮(PATROL PLAY/PATROL LEARN)

开始摄像机巡视操作。按住编程/摄像机设置/摄像机功能按钮, 再按下此按钮可启动摄像机巡视学习功能的编程功能。

②7 报警挂起按钮(ALM SUSPEND)

挂起或者允许报警处理。
选中报警挂起模式时, 此按钮旁边的LED显示点亮。

**②8 报警复位/报警再呼出按钮
(ALM RESET/ALM RECALL)**

在报警功能激活时复位系统报警。
按下SHIFT按钮后, 按下此按钮将再次呼出报警记录(记录过去激活的报警)。
选择监视器, 然后按此按钮在监视器屏幕上显示报警日志。再按转换按钮后按此按钮可以取消比功能。
报警再呼出模式被激活时, 此按钮旁边的LED显示点亮。

②9 多屏幕选择按钮(MULTI SCREEN SELECT)

选择在所选择的连接到视频复用器MULTI-SCREEN OUT终端的监视器上多画面的片数。

③0 录像机/摄像机选择按钮(* VCR/◉ CAM)

在多画面监视器上选择显示实时摄像机图像或者录像设备的回放图像。选择了录像机模式时, 此按钮旁边的LED显示点亮。

③1 电子变焦距/增加按钮(EL-ZOOM/+)

按下此按钮, 可使显示在多屏幕监视器的摄像机画面或录像机回放画面变焦距。

当选择了能够提供SEQ PAUSE功能的系统设备(例如, 视频复用器)时, 在转换模式下按此按钮可以将摄像机序列从先前暂停的位置正向移动一步。

当选择了与摄像机连接的系统设备(例如, 数据复用器)时, 在转换模式下按此按钮可以选择号码较高的下一个摄像机的图像在监视器上显示。选择了电子变焦距模式时, 此按钮旁边的LED显示点亮。

③2 静止/减少按钮(STILL/-)

按下此按钮, 可使显示在多屏幕监视器的摄像机画面或录像机回放画面静止。

当选择了能够提供SEQ PAUSE功能的系统设备(例如, 视频复用器)时, 在转换模式下按此按钮可以将摄像机序列从先前暂停的位置反向移动一步。

当选择了与摄像机连接的系统设备(例如, 数据复用器)时, 在转换模式下按此按钮可以选择号码较低的下一个摄像机的图像在监视器上显示。显示了静止图像时, 此按钮旁边的LED显示点亮。

**③3 序列/巡视停止按钮
(SEQUENCE/PATROL STOP)**

运行或者停止一个一系列摄像机画面按照指定时程顺序显示在监视器屏幕上的序列。按住编程/摄像机设置/摄像机功能按钮的同时, 按下此按钮将停止摄像机巡视学习功能的编程。
序列运行时按钮旁边的LED显示点亮。

③4 序列暂停/慢放按钮(SEQ PAUSE/SLOW)

此按钮用于使在选中监视器上显示的序列暂停。此模式下, 摄像机的一系列画面按照指定的时间间隔静止显示在监视器屏幕上。移动操作杆时按此按钮可以降低摇动/俯仰的速度。

安装(PS•Data)

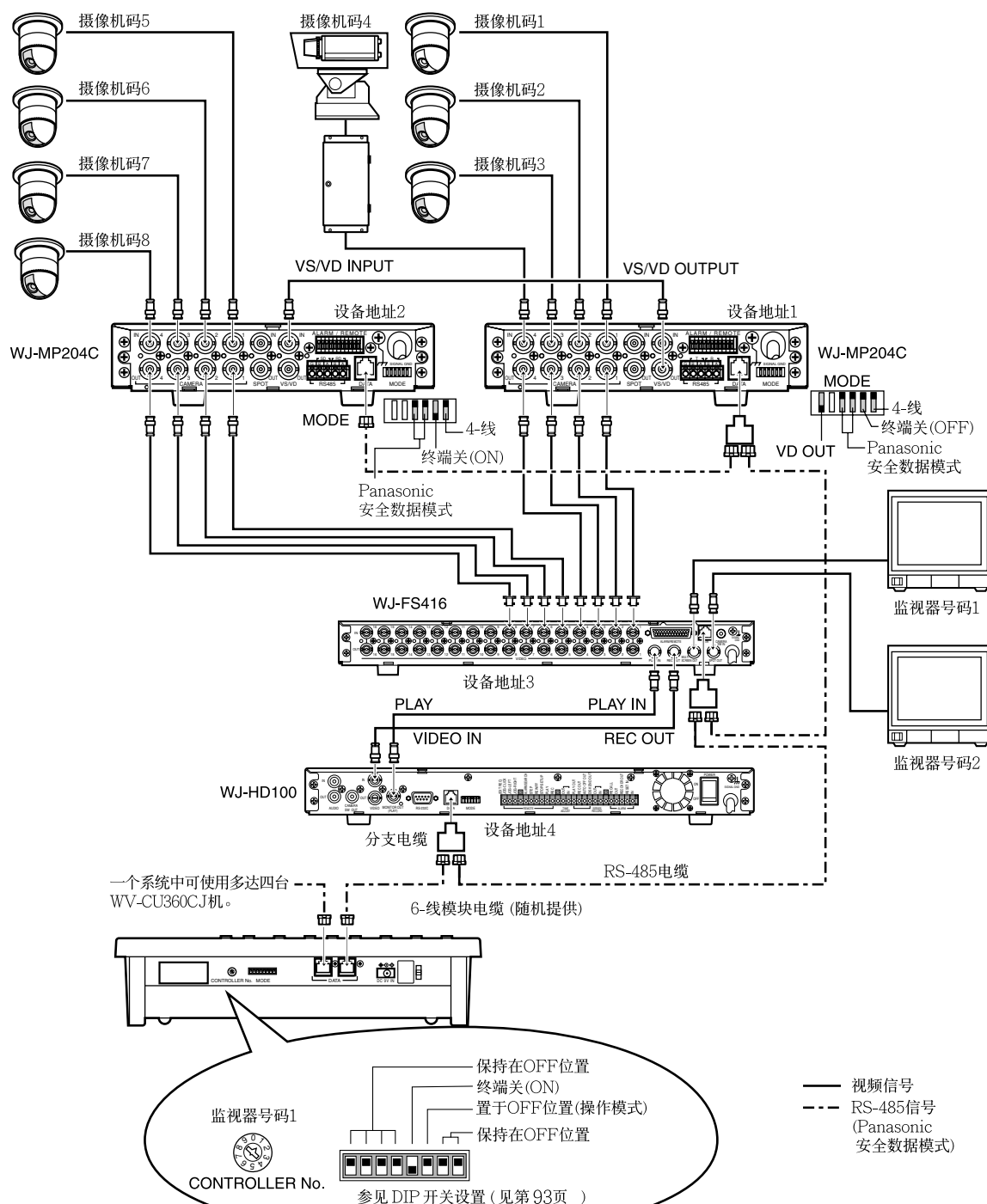
注意：

应由有资格的维修人员或系统安装人员严格按照下述说明进行有关安装工作。

■ 系统连接

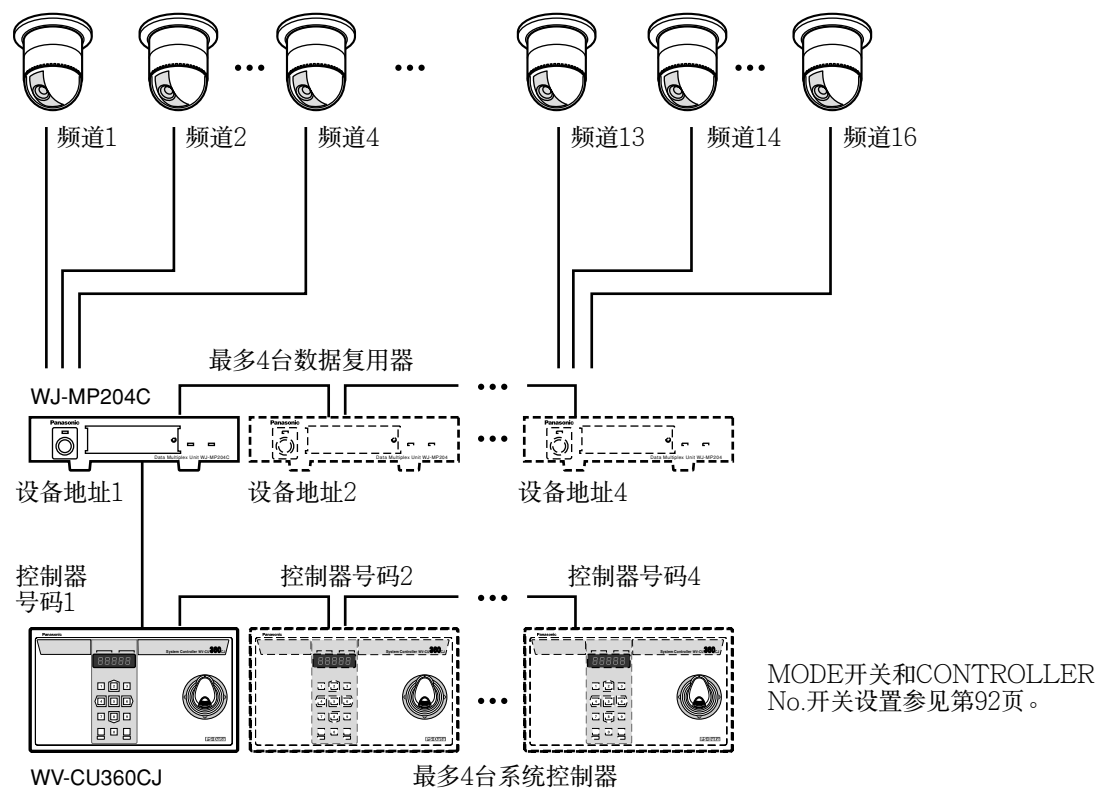
● 连接示例

例1图示8台摄像机与2台数据复用器(WJ-MP204C)，一台视频复用器(例如，WJ-FS416)，以及一台数字硬盘录像机(例如，WJ-HD100)连接的情况。WV-CU360CJ通过RS-485通讯控制这些系统设备，图像在监视器上进行观察。



例2包括4台数据复用器与16台组合摄像机，以及4台系统控制器连接的情况。

一台数据复用器可以连接4台摄像机。

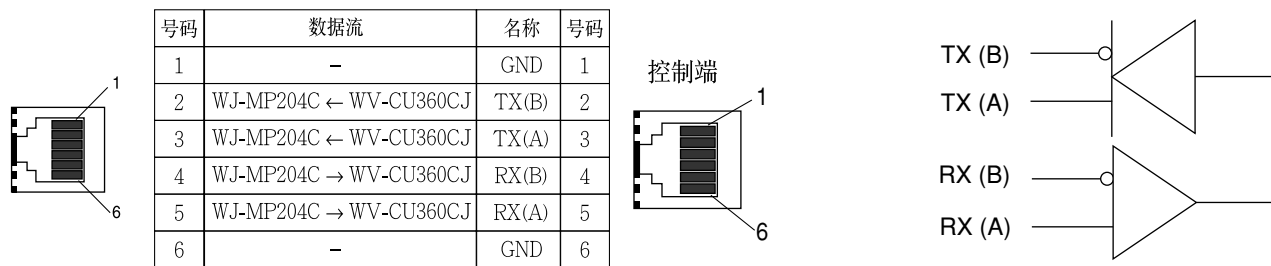


● DATA端口连接(PS•Data)

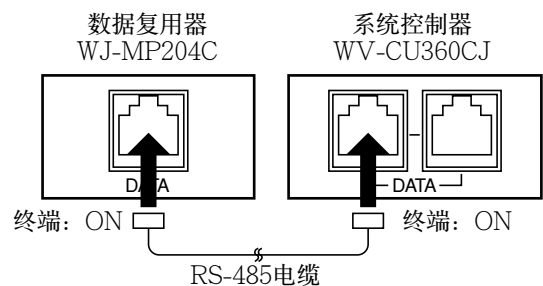
数据端口使用RS-485电缆通过PS•Data协议在各个设备之间进行连接如下。

注：使用与随机提供的不同的电缆时，要确认使用适合RS-485通讯的屏蔽4-线双绞线电缆。

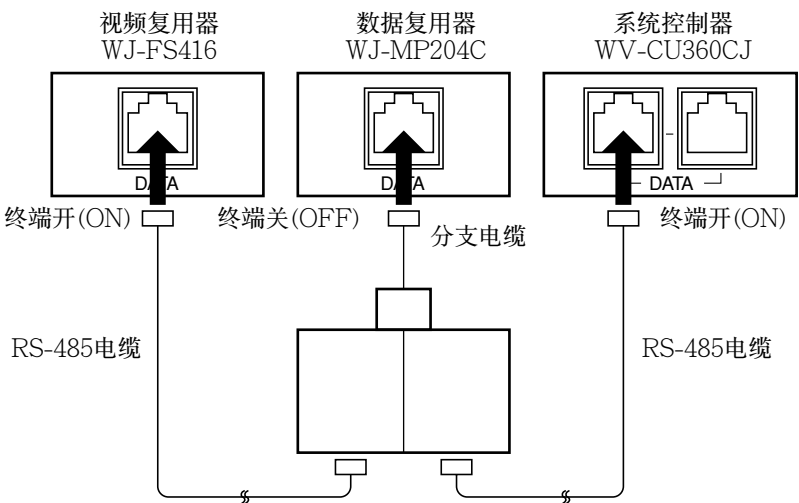
• 内部图



• 基本连接



• 菊花链连接



■ DIP开关设置(PS•Data)

安装在背面板上的一组8位DIP开关指定通讯模式等等。初始位置用星号*标出。



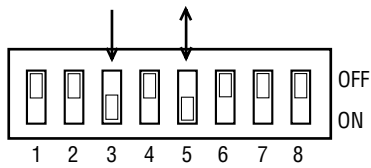
1. 从控制器的背面取下直流插头。
2. 参照附表设置开关。
3. 将直流插头接回控制器。

注：

- 位4保留。
- 位5开路或者端接通讯链。当控制器位于中间位置时，开关应当置于OFF处。
- 位6指定操作模式，操作人员或者管理员。设置控制器时，此开关应当置于ON位置。记住在完成设置后将此开关置于OFF位置。
- 位7和8置于OFF位置。

● 系统例2中的MODE开关设置

MODE开关需要在进行例2中所示的连接之前进行设置。



位3应当设置为OFF。
控制器位于中间位置时，位5应当设置为OFF，
而在终端位置上设置为ON。

■ 控制器号码设置(PS•Data)

背面的一个10位旋转开关用于指定PS•Data系统中WV-CU360CJ控制器的设备号码。

- 1. 从控制器的背面取下直流插头。
- 2. 用螺丝刀旋转开关使箭头指向所希望的号码。



CONTROLLER No.

- 3. 将直流插头接回控制器。

WV-CU360CJ的控制器号码开关	控制器号码
0	保留
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	保留

- 注：
- 系统中使用单一控制器时将开关设置于#1。
 - 系统中连接了多台控制器时为每台控制器指定不同的号码。多控制器系统中的一台控制器必须分配为1。
 - 位置#0和#9保留，不能使用。

控制器设置步骤(PS•Data)

按照下述设置MODE开关和电源，在WV-CU360CJ系统控制器的LED显示器上显示设置菜单。

■ 设置之前

进入设置模式前做以下事情。

- 1. 确认所有必要的连接和开关设置都已完成。
- 2. 电源关断条件下，将背面的MODE开关的位#6设置为ON位置。
- 3. 接通控制器的电源。
- 4. 接通摄像机和其他系统设备的电源。
- 5. LED显示屏显示[SEtUP]。控制器可以进入设置模式了。

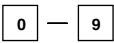
设置完成后，将开关恢复到原来的位置。

- 1. 电源关断条件下，将背面的MODE开关的位#6设置为OFF位置。
- 2. 接通控制器的电源。

■ 设置时使用的按钮和控制

下述按钮和操作杆用于设置操作。选择参数有三种方式，但下页仅叙述使用操作杆进行选择的情况。除了使用操作杆还可以用数字按钮或者按加减按钮输入括号里的数字。

数字按钮：用于选择参数
用于输入参数或者密码。



CAM/SET按钮：用于确认所选择的菜单，选择的参数，或者输入的密码接入子菜单。



MON/ESC按钮：用于回到上一级菜单



上：选择设置菜单



下：选择设置菜单



或



左：减少参数



或



右：增加参数

■ 设置菜单

有12个设置菜单如下所示。

菜单选择	设置菜单				参数选择(初始*)
	LED显示	读	功能		
否 是	SEtUP	设置	初始显示	CAM SET	LED显示提示输入密码
	• • • • • 闪烁	提示管理员密码	权限		输入一个5位密码, 按(12345*) CAM SET
上下移动操作杆进行选择。	SPEEd	速度	波特率(bps)	按两次 CAM SET	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
	PrtY	奇偶	奇偶校验	MON ESC	(1) 无* (2) 偶
	LWAIt	等待	等待时间(ms)		(1) 关* (2) 100 (3) 200 (4) 400 (5) 1 000
	CU-9r	控制器设备组			原样不动
	SU-9r	系统设备组			原样不动
	UA-no	装置A号码	设备分配给按钮A	CAM SET	
	Ub-no	装置B号码	设备分配给按钮B	MON ESC	
	USrP	用户密码			输入一个5位密码, 按(12345*) CAM SET
	SUSrP	超级用户密码	管理员密码		输入一个5位密码, 按(12345*) CAM SET
	USr-C	用户证书	用户权限		(1) 关 (2) 开*
	CLEAr	清洁	摄像机清洁		
	UtESt	装置测试	装置连接测试		

● 管理员权限

1. 显示[SEtUP]的时候按CAM/SET按钮。出现[- - - -]提示。
2. 用数字按钮输入密码，然后按CAM/SET按钮。出厂初始设置值为[12345]。
3. 正确密码输入后出现[SPEED]。如果输入的密码不正确菜单回到[- - - -]。

注：

- 我们建议为[SUSrP]注册一个与“12345”不同的新密码，然后记下所注册的密码以备日后参考。
- 同时按住数字按钮2，4，5的时候接通控制器的电源可以将密码复位为“12345”。记住此步骤也将其他所有菜单参数复位为初始设置值。

● 波特率

在这个菜单中，选择通讯速率(bps: 每秒位)。通讯速率应当与通讯链中所连接的其他设备相匹配。

1. 显示[SPEED]并且按CAM/SET按钮两次。
2. 左右移动操作杆或者按[+]和[-]按钮输入括号扩起来的数字，如(3),选择参数。
出厂初始设置值为19 200 bps。

- (1) 2 400: 2 400 bps
- (2) 4 800: 4 800 bps
- (3) 9 600: 9 600 bps
- (4) 19 200: 19 200 bps

注：选择较慢的速率(例如2 400 bps)将延迟响应时间(例如，报警激活后到复位的时间)。

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

● 奇偶

在此菜单中选择奇偶校验模式。

1. 显示[PrtY]并且按CAM/SET按钮两次。
2. 用操作杆选择参数。
出厂初始设置值为无。

n: 无
E: 偶校验

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

● 等待时间

在此菜单中选择等待时间。在指定的等待时间内如果没有响应，控制器将重新传送数据。

1. 显示[LJAit]并且按CAM/SET按钮两次。
2. 用操作杆选择参数。
出厂初始设置值为关。

- (1) OFF: 关，不重新传送数据。
- (2) 100: 100 ms
- (3) 200: 200 ms
- (4) 400: 400 ms
- (5) 500: 500 ms
- (6) 1 000: 1 s

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

以下两个菜单应当保持出厂初始状态。

● 控制器装置-组地址

[CU-gr]出现在设置菜单上，照原样保持初始设置。

● 控制器装置-组地址

[SU-gr]出现在设置菜单上，照原样保持初始设置。

● 装置A按钮定义

在此菜单中，最多9台系统设备分配给数字按钮1-9，而不管设备地址如何。

这样可以防止在连接了许多设备的大系统中两位数的地址给操作员造成混乱。

选择经常使用的系统设备可以很方便地通过按一个数字按钮再按UNIT A按钮的正常操作完成。

1. 显示[UA-no]并且按CAM/SET按钮。LED显示[A1-01]并且A背面的“1”闪动。

从A1到A9的前2位，即“A号码”，代表在正常操作中按UNIT A按钮之前要按的从1到9的数字按钮。背面的两位是通过下述步骤分配的设备地址。

出厂初始设置值如下所示。

A1-01
A2-02
A3-03
A1-04
A5-05
A6-06
A7-07
A8-08
A9-09

2. 输入一个1到9的数字，然后按CAM/SET按钮可以选择一个“A号码”。LED显示“A号码”。例如，输入数字按钮3则显示A3。

可选的A号码为：1-9

3. 按CAM/SET按钮使选择生效。LED显示[A3-03]其后两位数字闪动。
4. 输入一个希望分配给“A号码”的2位数的设备地址(例如，A3)，然后按CAM/SET按钮。例如，输入地址99后LED显示[A3-99]。

可选的地址为：01-99

5. 按CAM/SET按钮使选择生效。根据需要重复上述步骤2到5。
6. 按ESC按钮回到前一级菜单。

● 装置B按钮定义

在正常操作使用中UNIT B按钮的设置与UNIT A相同。参见上文关于设备A按钮分配部分。

● 用户密码

在此菜单中注册用户权限的5位数密码。

1. 显示[UsrP]并且按CAM/SET按钮。LED显示注册密码。
2. 用数字按钮输入一个五位数字。
出厂初始设置值为[12345]。

可选的密码为：00000-99999

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

● 管理员密码

在此菜单中注册管理员资格认证的5位数密码。

1. 显示[SUsrP]并且按CAM/SET按钮。
LED显示注册密码。
2. 用数字按钮输入一个五位数字。
出厂初始设置值为[12345]。

可选的密码为：00000-99999

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

● 用户密码认证

在此菜单中可以允许或者禁止正常操作。

1. 显示[USr-C]并且按CAM/SET按钮。LED显示[UC-on]或者[UC-oF]。
2. 用操作杆选择开或者关。
出厂初始设置值为开。

on: 开，使用密码认证。

oF: 关，自动退出登录。

3. 按下CAM/SET按钮，确认选择的值。
4. 按ESC按钮回到前一级菜单。

● 摄像机清洁

本菜单用于指定清洁连接到系统中的组合摄像机的次序。

摄像机清洁功能可以清洁机内移动摇动/俯仰头传导电信号的滑环。所有连接到系统中的组合摄像机都按照这里指定的次序进行清洁。在清洁过程中，观察通讯的功能关闭。

1. 显示[CLEAn]并且按CAM/SET按钮。LED显示[no-01]。
2. 使用数字按钮输入清洁开始的摄像机号码。
出厂初始设置值为no-01。

可选的摄像机号码为: 01-199

3. 按CAM/SET按钮开始清洁。
变化的两位数字出现在液晶显示器的左边部分，其右边的一位显示正在清洁的摄像机号码。
清洁结束后最后清洁的摄像机的号码固定显示在液晶显示器上。
4. 按ESC按钮回到前一级菜单。

● 装置连接测试

本菜单用于指定系统作为整体运行以前设备之间数据通讯测试的次序。

1. 显示[UtESt]并且按CAM/SET按钮。LED显示[01-on]或者[01-oF]。
2. 输入所希望开始的两位数设备的号码。
3. 按CAM/SET按钮开始测试。
液晶显示器的左边部分显示的一位数字显示正在测试的设备的号码，两位变化的数字出现在右边。
按CAM/SET按钮可以停止测试。
测试结束后，最后测试的摄像机的号码固定显示在液晶显示器上。
4. 按下CAM/SET按钮。输入一个两位的数字(例如，01)，然后按CAM/SET按钮。
这时可以确认指定设备的测试结果。当显示OFF时，检查系统设备的连接和开关设置等等。

01-on: 开，接入设备01。

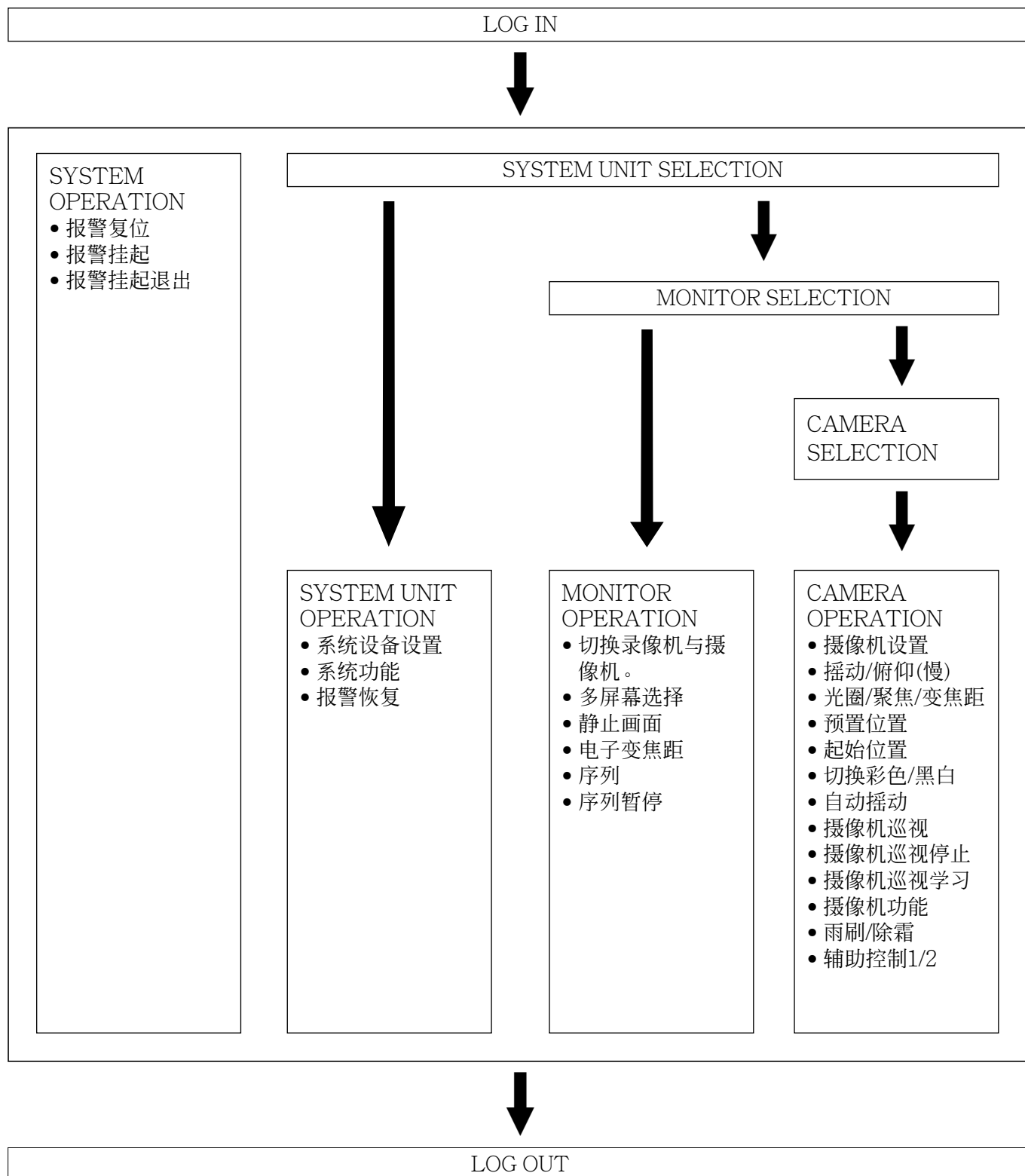
01-oF: 关，断开设备01。

5. 按ESC按钮回到前一级菜单。

操作步骤(PS•Data)

■ 基本操作流程

操作从登录步骤开始。此步骤在系统设备选择，监视器选择和摄像机选择之前。报警复位和挂起等报警操作可以进行。操作以退出登录结束。



■ 登录/退出

● 登录

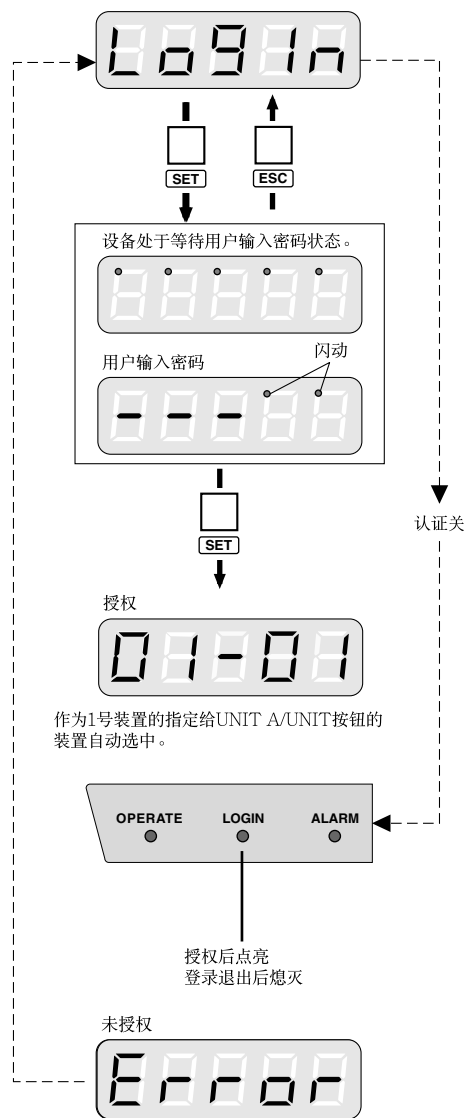
如果在设置菜单中将用户密码资格认证设置为关，电源刚接通时不输入密码也可以操作控制器。
如果设置为开，则会提示你输入注册密码。出厂初始设置的密码是“12345”，但是您需要记住系统管理员为您分配的密码。

1. 将直流插头插入直流9 V输入插座(DC 9V IN)，并将交流电源适配器插到交流电源插座上。
2. 控制器号码，软件版本，以及[LogIn]依次在LED显示上显示。
LOGIN指示灯点亮。除非密码认证功能没有启动，此时控制器就可以操作了。如果密码认证功能没有启动，按照下述步骤进行。
3. 按下CAM/SET按钮。
4. 用数字按钮输入一个五位数字。出厂初始设置为[12345]。
5. 按下CAM/SET按钮。
6. 如果用户权限的密码正确输入，LOGIN指示灯点亮。
作为1号装置的指定给UNIT A/UNIT按钮的装置自动选中。
如果密码输入失败，[Error] (错误)出现在显示器上。显示回到[LogIn] (登录)。

● 退出

1. 同时按下MON/ESC按钮和CAM/SET按钮约2秒钟。
2. [LogIn] (登录)出现在显示器上，并且登录(LOGIN)指示灯熄灭。
3. 将直流插头从控制器上拔下，并将交流电源适配器从交流电源插座上取下。

注：如果退出登录后没有关闭电源，则报警指示灯和报警挂起指示灯像正常操作时一样显示。

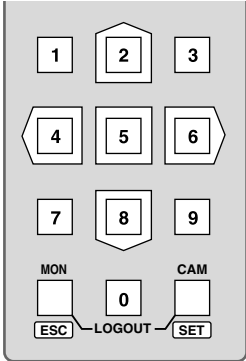


■ 系统设备选择

通过两种方式选择所连接的设备：可以通过设备号码(01-99)或者分配给UNIT A或UNIT B的一位数字(1-9) 来选择所连接的系统设备。

● 通过设备号码选择

1. 用数字按钮输入一个装置号码(01-99)。



2. 按SHIFT按钮使转换指示灯点亮，然后按UNIT A/UNIT按钮。



选中的装置号码出现在LED显示器的装置显示区。

选中的摄像机号码出现在LED显示器的摄像机显示区。

注：

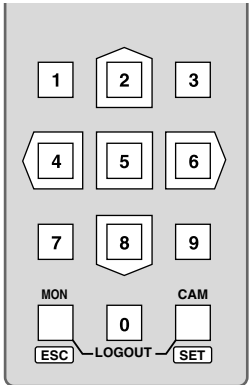
- 监视器号码出现在LED显示器的装置显示区时，要确认选择的装置号码，进行步骤2，或按下MON/ESC按钮。
- 如果没有装置连接，执行装置选择后，[Err](错误)显示数秒钟。在这种情况下确认设备地址并重复上述步骤。
- 如果某系统设备的地址未知，应向系统管理员咨询。
- 使用多台系统例如数据复用器等连接在系统控制器上，并按下UNIT A或UNIT B按钮时，控制器上的摄像机号码LED指示灯显示与监视器上的图像不一致。在这种情况下时，应按下下页的方法选择监视器和所需的摄像机。

● 通过UNIT A/UNIT B按钮选择

常用设备的设备号码(01-99)可以在设置时分配给数字按钮1-9。设备可以分为两组，一组分配给UNIT A按钮，另一组分配给UNIT B按钮。经常用到的系统设备可以通过按一个数字按钮然后按UNIT A按钮或者UNIT B按钮很方便地进行选择。

1. 输入一个一位数字(1-9)。

如果希望选择1号设备，可以省略这一步，因为初始选择这台设备。



2. SHIFT指示灯熄灭时按UNIT A或者UNIT B按钮。



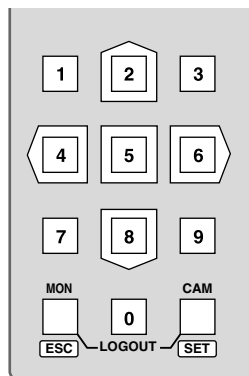
选中的设备地址出现在LED显示器的装置显示区。

选中的摄像机号码出现在LED显示器的摄像机显示区。

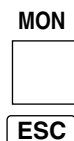
■ 监视器选择

多个监视器连接到系统设备(例如, 视频复用器)来控制多画面显示和电子变焦距等功能时选择一台监视器。

1. 选择希望控制的连接到监视器的系统设备。
2. 用数字按钮输入监视器号码。



3. 按下MON/ESC按钮。



选中的监视器号码出现在LED显示器的监视器显示区。

选中的摄像机号码出现在LED显示器的摄像机显示区。

此时该监视器就可以从系统控制器进行控制了。

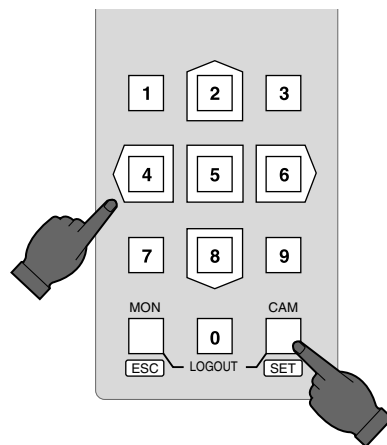
注：

- 要确认选中的监视器号码, 只要在LED显示器的监视器显示区出现监视器号码时, 进行步骤3。
- 每按一次MON/ESC按钮, LED显示器上就交替显示设备号码和监视器号码。
- 如果装置设置的监视器号码未进行编程, 该设置无效。
- 在上述情况下, 确认监视器号码后重复同样的步骤。如果您不知道监视器号码, 应向管理员咨询。
- 当[--]出现在LED显示器的监视器显示区, 说明所选择的系统设备与监视器选择不兼容。
- 进一步的信息, 请参见系统设备的操作说明书。

■ 摄像机选择

选择一台连接在系统设备中的摄像机。

1. 选择一台连接到希望观察其图像的摄像机的系统设备。
2. 用数字按钮输入摄像机号码。
输入摄像机号码出现在LED显示器上。
3. 按下CAM/SET按钮。



注：报警激活, 多画面显示, 或序列模式开的情况下, [--]出现在LED显示器的摄像机显示区。

选择摄像机后, 可执行下述功能。

- 摇动/俯仰
- 聚焦
- 变焦距
- 光圈
- 除霜开/关(ON/OFF)(摄像机外罩)
- 雨刷开/关(ON/OFF)(摄像机外罩)
- 预置位置(组合摄像机)
- 起始位置(组合摄像机)
- 在彩色和黑白图像之间切换(组合摄像机)
- 自动摇动(组合摄像机)
- 巡视学习功能(组合摄像机)
- 摄像机功能(组合摄像机)

如果系统设备装备有摄像机切换功能, 所选择的摄像机号码可以加一或者减一。

1. 按SHIFT按钮使转换指示灯点亮。
2. 按EL-ZOOM/+按钮来增加, 或者按STILL/-按钮来减少摄像机号码。

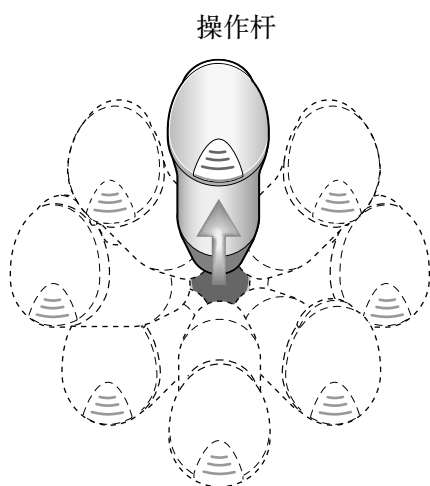
■ 摄像机控制

通过WV-CU360CJ对摄像机及其外围设备进行控制如下所示。下文如果涉及到你的系统中所没有装备的设备，其部分描述可能不起作用。
以下几页所述的操作步骤假设你已经选择了系统设备和监视器。

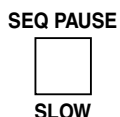
● 摇动/俯仰控制

按照下述步骤对组合摄像机或者安装在摇动/俯仰头上的普通摄像机进行控制。

1. 用操纵操作杆控制器将摇动/俯仰移动到所希望的方向。



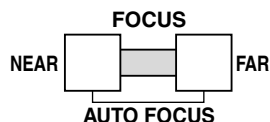
2. 要使摇动/俯仰的移动速度慢下来，在移动操作杆时按住**SLOW**按钮。



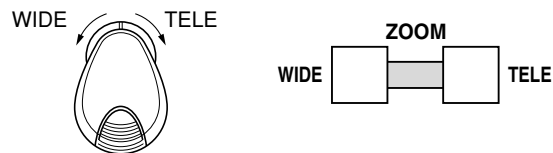
● 镜头控制

这允许您控制电动镜头。

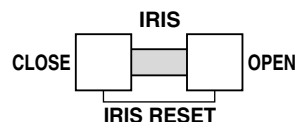
1. 如果使用带有自动聚焦功能的摄像机，可以按下操作杆顶部的按钮设置摄像机的镜头自动地聚焦。
亦可同时按下**FOCUS NEAR**和**FOCUS FAR**按钮自动地调节镜头聚焦。
如果使用没有自动聚焦功能的摄像机，则要边观看监视器边按下**FOCUS NEAR**或**FOCUS FAR**按钮手动地调节镜头聚焦。



2. 转动操作杆上的变焦距控制环，可以设置指定摄像机的镜头自动地变焦距。
向右转动控制环可拉近物体，向左转动控制环可推宽取景范围。
亦可按下**ZOOM TELE/WIDE**按钮设置变焦距。
按下**ZOOM TELE**按钮可拉近物体，按下**ZOOM WIDE**按钮可推宽取景范围。



3. 按下**IRIS CLOSE**按钮关闭光圈，按下**IRIS OPEN**按钮打开光圈。
如果同时按下**IRIS CLOSE**按钮和**IRIS OPEN**按钮，则将光圈复位成初始值。



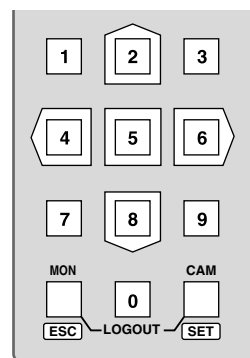
● 起始/预置位置

摄像机移动到预置位置或者回到起始位置，该位置的摄像机图像出现在监视器上。

1. 按**HOME/PRESET**按钮使摄像机回到起始位置。



2. 用数字按钮选择一个预置位置，然后按**HOME/PRESET**按钮使摄像机移动到该位置。



● 组合摄像机快捷操作

下列快捷操作可用于控制组合摄像机。进一步详情参见摄像机的使用说明书。

功能	按钮	功能	按钮
选择一个预置位置	从#1到#64	RESTART	
#1	[1] + [CAM FUNC]	开始	[1] + [0] + [0] + [CAM FUNC]
#10	[1] + [0] + [CAM FUNC]	记忆预置	从#1到#64**
#64	[6] + [4] + [CAM FUNC]	位置 #1	[1] + [0] + [1] + [CAM FUNC]
AUTO PAN		位置 #10	[1] + [1] + [0] + [CAM FUNC]
ON	[6] + [5] + [CAM FUNC]	位置 #64	[1] + [6] + [4] + [CAM FUNC]
OFF	[6] + [6] + [CAM FUNC]	PATROL	
加速	[6] + [7] + [CAM FUNC]	PLAY	[1] + [6] + [5] + [CAM FUNC]
减速	[6] + [8] + [CAM FUNC]	STOP	[1] + [6] + [6] + [CAM FUNC]
设置起始点	[6] + [9] + [CAM FUNC]	LEARN(起始)	[1] + [6] + [7] + [CAM FUNC]
设置终止点	[7] + [0] + [CAM FUNC]	IRIS	
设置反向摇动	[7] + [4] + [CAM FUNC]	打开	[1] + [6] + [9] + [CAM FUNC]
AUTO MODE		关闭	[1] + [7] + [0] + [CAM FUNC]
模式关	[7] + [1] + [CAM FUNC]	EL-SHUTTER	
序列开	[7] + [2] + [CAM FUNC]	开	[1] + [7] + [1] + [CAM FUNC]
排序开	[7] + [3] + [CAM FUNC]	关	[1] + [7] + [2] + [CAM FUNC]
ENDLESS PAN		加速	[1] + [7] + [3] + [CAM FUNC]
开	[7] + [6] + [CAM FUNC]	减速	[1] + [7] + [4] + [CAM FUNC]
关	[7] + [7] + [CAM FUNC]	AGC	
DIGITAL FLIP		开	[1] + [7] + [5] + [CAM FUNC]
开	[7] + [8] + [CAM FUNC]	关	[1] + [7] + [6] + [CAM FUNC]
关	[7] + [9] + [CAM FUNC]	SENS UP	
PROP. PAN/TILT		开	[1] + [7] + [7] + [CAM FUNC]
开	[8] + [0] + [CAM FUNC]	关	[1] + [7] + [8] + [CAM FUNC]
关	[8] + [1] + [CAM FUNC]	上	[1] + [7] + [9] + [CAM FUNC]
SUPER-D2		下	[1] + [8] + [0] + [CAM FUNC]
开	[8] + [4] + [CAM FUNC]	SENS UP AUTO	
关	[8] + [5] + [CAM FUNC]	开	[1] + [8] + [1] + [CAM FUNC]
AUTO FOCUS		关	[1] + [8] + [2] + [CAM FUNC]
STOP AF开*	[8] + [6] + [CAM FUNC]	上	[1] + [8] + [3] + [CAM FUNC]
STOP AF关*	[8] + [7] + [CAM FUNC]	下	[1] + [8] + [4] + [CAM FUNC]
AF 开(启动)	[8] + [8] + [CAM FUNC]	电源同步相位	
HOME POSITION		INC	[1] + [8] + [5] + [CAM FUNC]
移动到起始位置	[8] + [9] + [CAM FUNC]	DEC	[1] + [8] + [6] + [CAM FUNC]
黑白或彩色		PAN	
B/W 开*	[9] + [0] + [CAM FUNC]	180度旋转	[1] + [8] + [7] + [CAM FUNC]
B/W 关*	[9] + [1] + [CAM FUNC]	CLEANING	
B/W AUTO*	[9] + [2] + [CAM FUNC]	开	[1] + [8] + [8] + [CAM FUNC]
CAMERA ID		关	[1] + [8] + [9] + [CAM FUNC]
开	[9] + [3] + [CAM FUNC]	BW SW AUTO	
关	[9] + [4] + [CAM FUNC]	30秒	[1] + [9] + [0] + [CAM FUNC]
AREA TITLE		60秒	[1] + [9] + [1] + [CAM FUNC]
NESW开	[9] + [5] + [CAM FUNC]	300秒	[1] + [9] + [2] + [CAM FUNC]
USER开	[9] + [6] + [CAM FUNC]	600秒	[1] + [9] + [3] + [CAM FUNC]
TITLE关	[9] + [7] + [CAM FUNC]		
EL-ZOOM			
开	[9] + [8] + [CAM FUNC]		
关	[9] + [9] + [CAM FUNC]		

注：

- 标有*号的快捷操作只改变参数设置。当符合改变设置的条件时，实际操作就发生了。
- 当输入标有**标志的快捷操作时，“NO REGS. ; FLIP ON”字样会出现在监视器上。再输入快捷操作。
- 进行PAN/TILT, ZOOM 或者FOCUS操作时，会忽略快捷操作。
- 巡视学习只能并存在 [1]到[6]+[4], [1]+[6]+[9]和 [1]+[7]+[0]存储器中。
- 输入除了 [1]+[6]+[9]或者 [1]+[7]+[0]以外的快捷操作时，巡视执行停止。

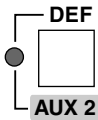
● 机舱/辅助控制

当系统包括摄像机机舱时，可以控制其除霜器和雨刷器。

系统中安装了接收器时，其上连接的蜂鸣器或者灯等辅助设备也可以控制。

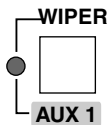
● 除霜器

按下DEF/AUX 2按钮，来操纵选定摄像机的除霜器。操作过程中按钮旁边的DEF/AUX 2指示灯点亮。



● 雨刷器

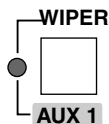
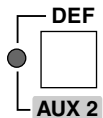
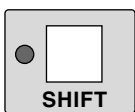
按下WIPER/AUX 1按钮，来操纵选定摄像机的雨刷器。操作过程中按钮旁边的WIPER/AUX 1指示灯点亮。



注：为了防止雨刷器过早磨损，确认在不必要使用雨刷器或选用另外一个摄像机之前，应将雨刷器关断。

● 辅助1/2

1. 按SHIFT按钮使SHIFT指示灯点亮。
2. 按WIPER/AUX 1或者DEF/AUX 2按钮打开或者关闭所选择的摄像机的辅助功能。操作过程中按钮旁边对应的指示灯点亮。



注：变焦，聚焦，或者摇动/俯仰操作过程中，辅助控制会被忽略。

■ 数据复用器控制

在第90页中系统连接范例2所示的不只一台数据复用器与控制器连接的情况下，可以用摄像机号码直接选择摄像机，而不必输入系统设备地址。

● 设置

摄像机号码由UNIT开关或者在WJ-MP204C的设置菜单中指定。

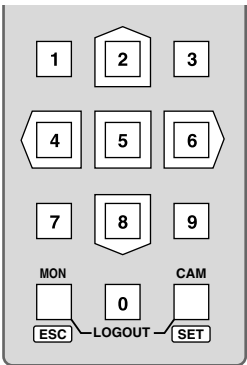
进一步的详情参见数据复用器的使用说明书。

WJ-MP204C 的设备地址	摄像机号码
1	1, 2, 3, 4
2	5, 6, 7, 8
3	9, 10, 11, 12
4	13, 14, 15, 16

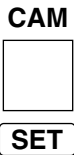
系统中连接了不只一台控制器的情况下，要记住需要对MODE DIP开关和CONTROLLER No.开关进行设置，如第94页所述。

● 摄像机选择

1. 用数字按钮输入摄像机号码。



2. 按下CAM/SET按钮。



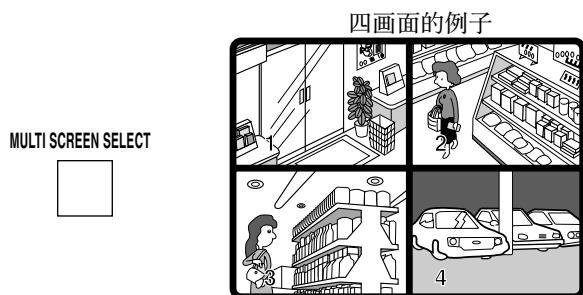
■ 视频复用器控制

视频复用器所装备的一些功能可以通过系统控制器进行遥控。进一步的详情参见视频复用器的使用说明书。

以下几页所述的操作步骤假设您已经选择了系统设备和监视器。

● 多屏幕选择

1. 按下MULTISCREEN SELECT按钮。所选择的多画面接收器显示分格的屏幕。



2. 重复按该按钮来选择所希望的多画面显示的分格数目。根据所输入的数字(16或者9)不同，每次按该按钮数目变化如下。

16-输入: 4 → 9 → 16 → 4画面分格

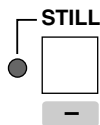
9-输入: 4 → 9 → 4画面分格

● 静止画面

有两种方式使多画面屏幕显示静止图像。

● 指定摄像机静止图像

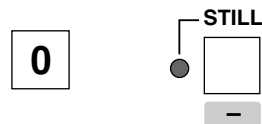
1. 用数字按钮选择一个摄像机号码，然后按STILL/-按钮。STILL/-指示灯点亮时，所选择的摄像机图像静止在多画面屏幕上。



2. 按STILL/-按钮取消静止显示模式。

● 所有摄像机静止图像

1. 用数字按钮输入0，然后按STILL/-按钮。STILL/-指示灯点亮时，所有摄像机图像静止在多画面屏幕上。

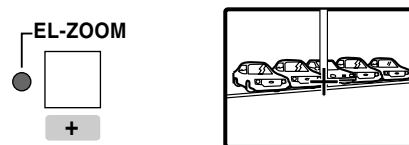


2. 按STILL/-按钮取消静止显示模式。

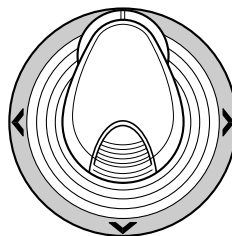
● 电子变焦距

显示在接收器上的图像可以进行电子变焦，而且放大的区域可以用操作杆在图像上移动。

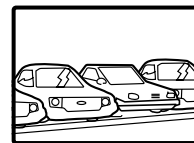
1. 按下EL ZOOM/+按钮。EL ZOOM/+指示灯点亮，并且[+]号出现在监视器屏幕的中央。



2. 用操作杆控制器将[+]标记移动到变焦距区域内。



3. 再次按下EL ZOOM/+按钮进行变焦距。



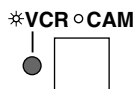
可以用操作杆将放大的区域在图像上移动。

4. 再次按下EL ZOOM/+按钮进行变焦距模式。EL ZOOM/+指示灯熄灭。

● 观察回放图像

录像机的回放图像显示在所选择的点监视器或者多画面监视器上。

1. 所连接的录像机处于回放模式时，按**VCR/CAM**按钮使VCR指示灯点亮。回放图像显示在所选择的监视器上。



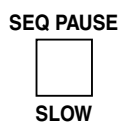
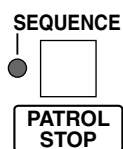
2. 再按**VCR/CAM**按钮取消观察回放。VCR指示灯熄灭。

注：视频复用器的PLAYBACK AUTO参数设置成ON，并且回放信号提供给视频复用器时，此功能是自动的。如果希望手动进行上述操作，将PLAYBACK AUTO参数设置为OFF。

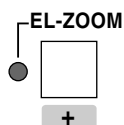
● 序列控制

一个预置序列显示在所选择的单画面监视器或者多画面监视器上。暂停的画面可以向前或者向后移动一帧。

1. 按下**SEQUENCE**按钮。**SEQUENCE**指示灯点亮时，序列显示在监视器上。

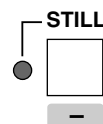


2. 要暂停序列。按下**SEQ PAUSE**按钮。

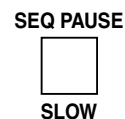


3. 要将序列向前移动一步，按下**EL ZOOM/+**按钮。

4. 要将序列向后移动一步，按下**STILL/-**按钮。



5. 按下**SEQ PAUSE**按钮可以清除序列暂停。



■ 数字硬盘录像机控制

使用分配给数字按钮的快捷操作从系统控制器控制数字硬盘录像机。

进一步的详情参见数字硬盘录像机的使用说明书。

以下几页所述的操作步骤假设你已经选择了系统设备和监视器。

● WJ-HD100快捷操作

下列快捷操作可以用于控制数字硬盘录像机。进一步的详情参见数字硬盘录像机的使用说明书。

项目	WJ-HD100	WV-CU360CJ	注
显示/隐藏设置菜单	按住2秒钟 	按住2秒钟 	打开设置菜单将自动释放按钮锁定。
设置项目选择	 	 	
参数选择		 	
将关闭向回移动一步			
显示/隐藏报警历史	操作液晶显示屏按钮。	 → 	
搜寻报警历史		 	
回放/停止所选择的报警记录	 	 	
录像		 →  → 	
停止		 →  → 	
停止回放		 →  → 	仅用于停止回放。
停止记录		 →   → 	仅用于停止记录。
回放		 →  → 	
暂停		 →  → 	
步进前向回放。		 →  → 	
步进反向回放。		 →  → 	
前向跳过回放。		 →   → 	
反向跳过回放。		 →   → 	
跳到最后记录。	 → 按穿梭	 →  → 	到达跳到最后记录的顶部。
跳到最旧记录。	 → 按穿梭	 →  → 	到达跳到最旧记录的顶部。

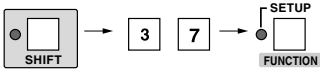
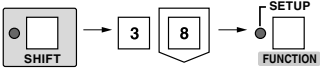
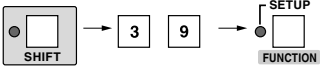
项目	WJ-HD100	WV-CU360CJ	注
白天保留		 → 1 → 3 →  	
定时记录模式选择	操作液晶显示屏按钮。	 → 1 →  →  	可选择OFF，INT，或EXT
按钮锁定OFF(关)	操作液晶显示屏按钮。	 → 3 → 0 →  	
按钮锁定ON(开)	操作液晶显示屏按钮。	 → 3 → 1 →  	

● WJ-HD500A快捷操作

下列快捷操作可以用于控制数字硬盘录像机。进一步的详情参见数字硬盘录像机的使用说明书。

项目	控制器操作	注
步进前向回放	 → 1 →  	
步进反向回放	 →  →  	
暂停	 →  →  	
回放	 →  →  	
录像	 →  →  	与REC按钮同等
停止	 →  →  	用于手动录像和回放
停止回放	 → 9 →  	仅用于停止回放
停止记录	 → 1 → 0 →  	仅用于停止记录
报警搜寻OFF(关)	 → 3 →  →  	
报警搜寻ON(开)	 → 3 → 3 →  	
按钮锁定OFF(关)	 → 3 → 0 →  	
按钮锁定ON(开)	 → 3 → 1 →  	
白天保留ON(开)/OFF(关)	 → 1 → 3 →  	
定时模式选择	 → 1 →  →  	内部，外部，关
记录清单显示ON(开)/OFF(关)	 → 1 →  →  	索引
记录搜寻窗ON(开)	 → 1 →  →  	索引/穿梭

项目	控制器操作	注
屏幕显示ON(开)/OFF(关)	 → 1 → 9 →  FUNCTION	
组选择	 → 2 → 2 →  FUNCTION	
显示/隐藏报警记录	 →  ALM RECALL	
前向跳过回放。	 → 1 → 1 →  FUNCTION	速度转换 1/2, 1, 2, 5
反向跳过回放。	 → 1 → 2 →  FUNCTION	速度转换 1/2, 1, 2, 5
记录清单向上1行	 → 2 → 3 →  FUNCTION	
记录清单向下1行	 → 2 → 4 →  FUNCTION	
记录清单转下页	 → 2 → 5 →  FUNCTION	
记录清单转前页	 → 2 → 6 →  FUNCTION	
回放所选择的录像	 → 2 → 7 →  FUNCTION	记录清单
在窗中快倒搜寻	 → 2 → 8 →  FUNCTION	记录清单
在窗中快进搜寻	 → 2 → 9 →  FUNCTION	记录清单
在窗中增加参数	 → 3 → 4 →  FUNCTION	记录清单
在窗中减少参数	 → 3 → 5 →  FUNCTION	记录清单
搜寻窗显示ON(开)/OFF(关)	 → 3 → 6 →  FUNCTION	记录清单
报警日志向上1行		
报警日志向下1行		
回放所选择的报警记录	 →  SET	报警记录
在窗中快倒搜寻		报警记录
在窗中快进搜寻		报警记录
在窗中增加参数	 →  +	报警记录
在窗中减少参数	 →  -	报警记录
搜寻窗显示选择	 →  ESC	时间及日期，报警频道CH，OFF

项目	控制器操作	注
复制于DVD		
取消复制		
DVD复制记录显示		与EL-ZOOM同等

■ 报警操作

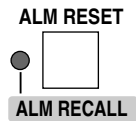
当WV-CU360CJ从系统设备收到一个报警信号，控制器上的报警指示灯闪烁。

当报警自动复位时，报警指示灯从闪烁转为稳定点亮。

摄像机号码[---]出现在LED显示器的摄像机区。

● 报警复位

- 按下ALM RESET/ALM RECALL按钮。



控制器上的报警指示灯熄灭。

注：

- 报警复位操作包括自动复位不仅对所选择的一台设备而是对所有系统设备起作用。
- 报警复位时，报警复位模式依与WV-CU360C连接的系统设备不同而有所不同。
- 确认SHIFT按钮未被按下。

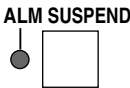
● 报警挂起

报警挂起模式启动或者关闭。如果不希望被报警输入打扰，例如在设置操作的时候，可以使用这个功能。

- 按下ALARM SUSPEND按钮。ALARM SUSPEND指示灯点亮。
指示灯点亮的时候，忽略报警输入。



- 再次按下ALARM SUSPEND按钮，可以清除报警挂起。

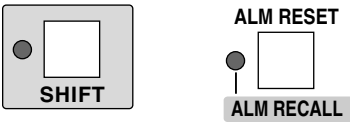


注：报警挂起不仅对所选择的一台设备而是对所有系统设备起作用。

● 报警恢复

将报警事件日志调出，显示在监视器上。

- 选择所希望的系统设备和监视器。
- SHIFT指示灯点亮时，按下ALM RESET/ALM RECALL按钮。ALM RECALL指示灯点亮。报警日志显示在监视器上。



- SHIFT指示灯点亮时，按下ALM RESET/ALM RECALL按钮，可以清除报警恢复功能。

设备和摄像机的遥控设置

您可以用此控制器的设置菜单来设置系统设备和摄像机。

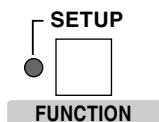
可以使用控制器设置系统设备和摄像机。

本节描述主要遥控设置步骤。如果你的系统中没有装备所提到的设备，一些描述会不起作用。

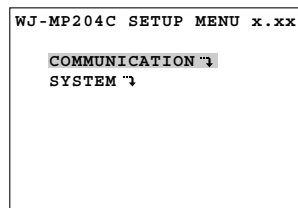
关于出厂初始设置和操作步骤的进一步详情参见各个设备的使用说明书。

■ 系统设备设置

1. 选择所希望的与Panasonic安全数据模式兼容的系统设备。
2. 按下**SETUP/FUNCTION**按钮2秒钟以上。
SETUP指示灯点亮。
系统设备的设置菜单出现在监视器上。



WJ-MP204C设置菜单的例子



3. 要完成设置，按下**SETUP/FUNCTION**按钮2秒钟以上。
SETUP指示灯熄灭。

注：如果您改变了波特率或奇偶校验的初始设置，系统设备的设置功能失效。

系统设备设置使用的按钮



用于移动光标



用于选择参数



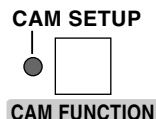
执行参数或者
接入子菜单。



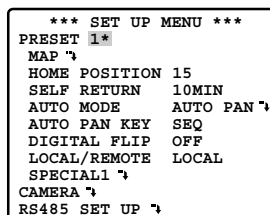
用于回到上一级菜单

■ 摄像机设置

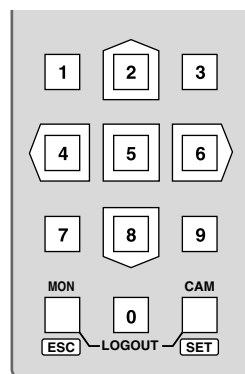
1. 选择所希望的摄像机。
2. 按下**CAM SETUP/CAM FUNCTION**按钮2秒钟以上，进入摄像机设置菜单。**CAM SETUP**指示灯点亮。



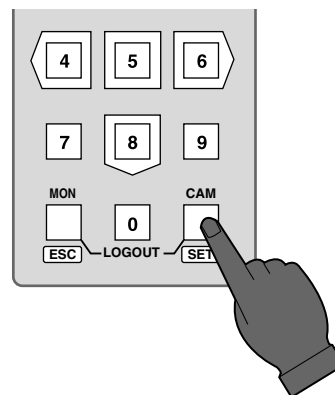
(摄像机设置菜单的例子)



3. 用数字按钮2(上)或者8(下)移动光标，然后用数字按钮6(右)或者4(左)选择参数。



4. 按下**CAM/SET**按钮，执行参数或进入下一级子菜单。



5. 按下**MON/ESC**按钮，回到上一级菜单。

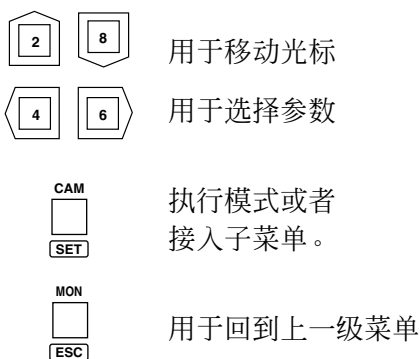
- 按下**CAM SETUP/CAM FUNCTION**按钮2秒钟以上，完成摄像机设置。
- 将光标在设置菜单中移动到[SPECIAL](特殊)项目，并同时按下数字按钮**4**和**6**两秒钟以上，来显示特殊菜单。
- 将光标在设置菜单中移动到[CAMERA RESET](摄像机复位)* 项目，并同时按下数字按钮**4**、**5**和**6**两秒钟以上，来将所有的功能复位成初始值。

* 不同的摄像机复位摄像机功能的菜单不同。
在WV-CS650中是[SPECIAL](特殊)，在WV-CS854中是[SPECIAL 2](特殊2)，在固定摄像机等中是[END](结束)。

注：

- 如果摄像机设置是用摄像机上的按钮开始的，所有背面的设置操作都必须用摄像机上的按钮进行。
- 如果摄像机设置是用系统控制器开始的，所有背面的设置操作都必须用同一台控制器进行。
- 进一步的信息，请参见选定摄像机操作说明书。

摄像机设置菜单中用到的键



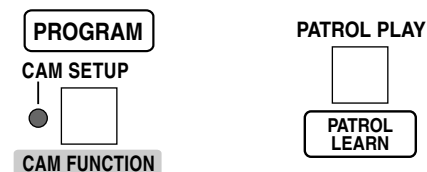
■ 摄像机巡视学习

有两种方法设置摄像机巡视学习。

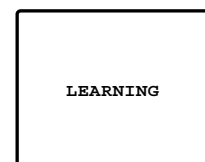
一种是使用摄像机设置菜单，另外一种是通过操作摄像机。

按照下述步骤在操作组合摄像机时进行设置。

- 选择所希望的系统设备、监视器和组合摄像机。
- 按住**PROGRAM/CAM SETUP/CAM FUNCTION**按钮时，按下**PATROL PLAY/PATROL LEARN**按钮。



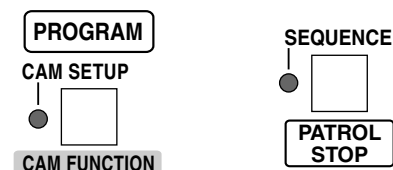
[LEARNING](学习)出现在监视器上。



- 使用下述控制操作摄像机使之按照最经常的巡视路径运行。巡视学习可以为以后的巡视执行进行30秒编程。
 - 摇动/俯仰(操作杆)
 - 光圈(开放/关闭)
 - 聚焦(远/近)
 - 变焦距(望远/广角)
 - 预置位置

注：根据摄像机型号的不同，所记忆的参数会有所不同。参见摄像机的说明书。

- 按住**PROGRAM/CAM SETUP/CAM FUNCTION**按钮时，按下**SEQUENCE/PATROL STOP**按钮，使学习过程停止。



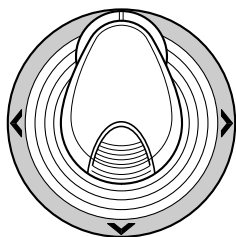
[LEARNING](学习)从监视器上消失。

■ 摄像机预置位置

有两种方法设置摄像机预置位置。

一种是使用组合摄像机的摄像机设置菜单，另外一种是通过操作系统控制器如下所示。

1. 选择所希望的系统设备，监视器和摄像机。
2. 用操作杆将摄像机移动到所希望的预置位置。

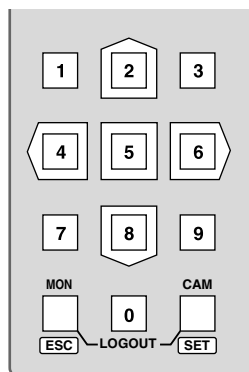


用下述按钮调整图像。

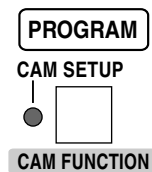
- 光圈(开放/关闭)
- 聚焦(远/近)
- 变焦距(望远/广角)

注：根据摄像机型号的不同，所记忆的参数会有所不同。参见摄像机的说明书。

3. 用数字按钮为预置位置按钮入一个数字。摄像机号码出现在LED显示器的CAMERA区。



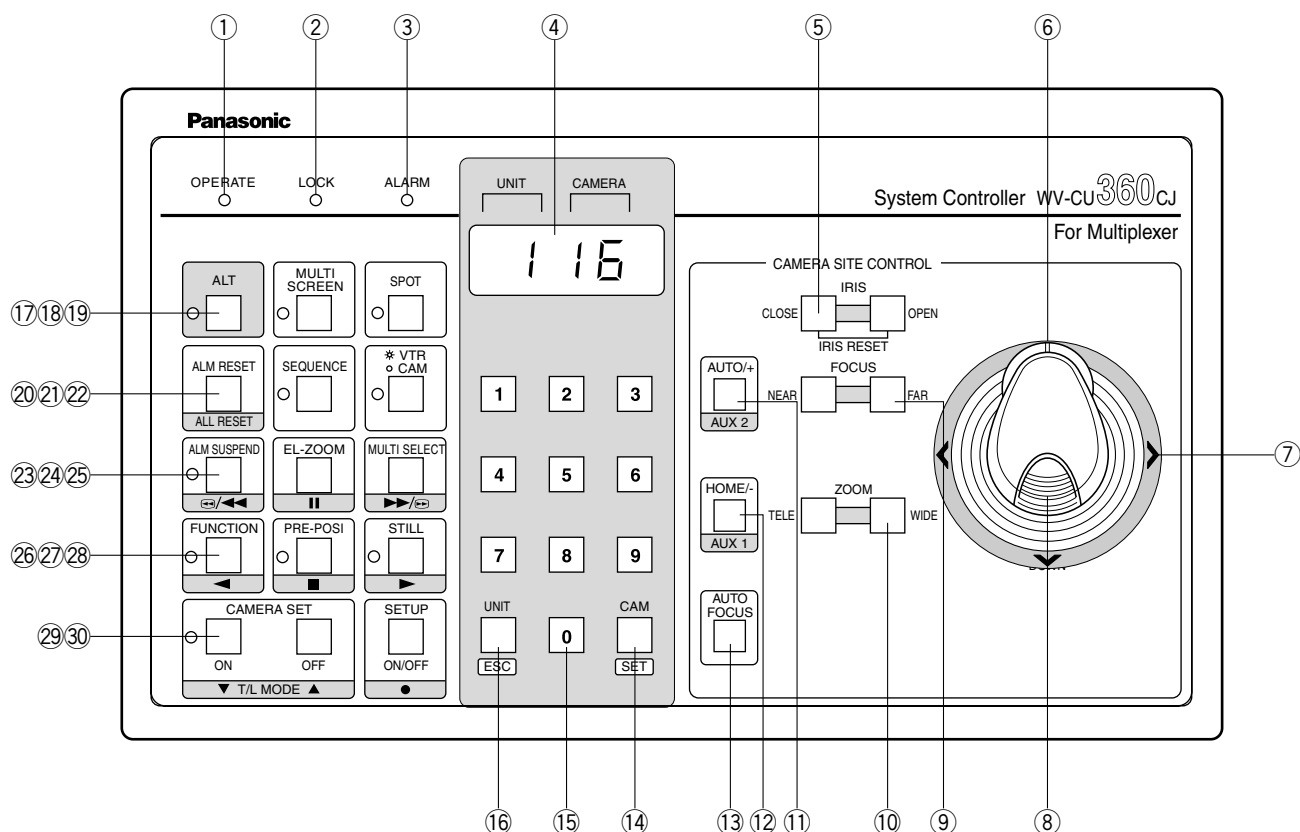
4. 按住PROGRAM/CAM SETUP/CAM FUNCTION按钮时，按下HOME/PRESET/PROGRAM PRESET按钮。位置及其号码会被记忆下来供以后调出使用。



WJ-FS616C 视频复用器系统

主要操作控制器及其功能

■ 正面视图(WJ-FS616C视频复用器模板)



① 工作指示灯(OPERATE)

电源提供给系统控制器时点亮。

② 锁定指示灯(LOCK)

当系统控制器和WJ-FS616C操作被所连接的计算机禁止的时候该指示灯点亮。锁定可以从计算机传送的命令释放。

③ 报警指示灯(ALARM)

报警激活时闪烁。当报警自动复位时，此灯由闪烁转为稳定点亮。
按ALM RESET按钮可使这个指示灯熄灭。

④ LED显示(UNIT CAMERA)

LED显示帮助您确认系统设备和正在工作的摄像机的号码。在多画面或者序列模式下操作时，CAMERA选择将显示“-”。

⑤ 光圈按钮(IRIS, CLOSE/OPEN)

这二个按钮用于关闭或打开装有指定镜头的摄像机的光圈。

如果同时按下这二个按钮，镜头光圈复位为出厂初始设置值。

⑥ 变焦距轮型控制器

当摄像机上装有指定镜头时，用此控制器可调节镜头变焦距。向右转动控制器将景物扩大，向左转动控制器将景物缩小。

⑦ 操作杆控制器

用于手动操作摇动/俯仰，或者在视频复用器的设置菜单中将光标移动到所希望的位置。

^: 向上
 v: 向下
 <: 向左
 >: 向右

⑧ 上端按钮

按下这个按钮自动地设置指定摄像机的镜头聚焦。

- ⑨ **聚焦按钮(FOCUS, NEAR/FAR)**
这二个按钮用于调整装有指定镜头的摄像机的聚焦。
- ⑩ **变焦距按钮(ZOOM, TELE/WIDE)**
这二个按钮用于调整装有指定镜头的摄像机的变焦距。
- ⑪ **自动/增加按钮(AUTO/+)**
启动自动摇动功能。
设置时，此按钮用于在设置菜单中选择所希望的参数。
- ⑫ **起始位置/增加按钮(HOME/-)**
将摄像机移动到起始位置。
设置时，此按钮用于在设置菜单中选择所希望的参数。
- ⑬ **自动聚焦按钮(AUTO FOCUS)**
选择了具有自动聚焦功能的特定摄像机后启动自动聚焦功能。
- ⑭ **摄像机/设置按钮(CAM/SET)**
CAM: 选择一台摄像机。用数字按钮输入一个摄像机号码，然后按CAM/SET按钮。
SET: 在设置菜单中执行当前高亮的设置。
- ⑮ **数字按钮(0 - 9)**
这些按钮用于向系统输入数字，例如希望选择的摄像机号码等。
- ⑯ **装置/退出按钮(UNIT/ESC)**
UNIT: 选择一台WJ-FS616C设备。用数字按钮输入一个设备号码，然后按UNIT/ESC按钮。
ESC: 从当前高亮的选择项退出并且回到前一级设置菜单窗口。
- ⑰ **替换按钮(ALT)**
与其他按钮一起使用，实现特定功能。
例如，与ALM SUSPEND，EL-ZOOM或者MULTI SELECT按钮一起使用，对录像机进行控制。
- ⑱ **多屏幕监视器按钮(MULTI SCREEN)**
此按钮用于操作连接在视频复用器的多画面输出(MULTISCREEN OUT)的多画面监视器。
选择了多画面监视器时，该指示灯点亮。
注: 视频复用器的REC OUT端子用作连接多画面监视器2的端子时，本按钮可以交替选择多画面监视器或者多画面监视器2。
选择了多画面监视器2的时候指示灯闪动。
- ⑲ **点监视器按钮(SPOT)**
选择连接到视频复用器的SPOT OUT端子的单画面监视器。
选择了单画面监视器的时候指示灯点亮。
- ⑳ **报警复位按钮(ALM RESET)**
取消被激活的报警。
报警功能激活的时候按此按钮复位当前选择的设备的报警并且将系统恢复到报警功能激活前的状态。
与ALT按钮一起按此按钮复位所有的报警。
- ㉑ **序列按钮(SEQUENCE)**
启动序列功能。此模式下，摄像机的一系列画面按照指定的时间间隔顺序显示在监视器屏幕上。
选择了这个功能后该指示灯点亮。
- ㉒ **录像机/摄像机选择按钮(VTR/CAM)**
选择显示在多画面监视器上的摄像机图像或者录像机回放图像。
选择了录像机模式的时候，该指示灯点亮。
注: 除非用MULTISCREEN按钮选择了多画面监视器，上述操作不起作用。
- ㉓ **报警挂起按钮(ALM SUSPEND)**
按此按钮2秒钟以上，挂起激活的报警而不改变当前的报警模式设置。
选择了报警挂起模式的时候该指示灯点亮。
- ㉔ **电子变焦按钮(EL-ZOOM)**
缩放当前显示在多画面监视器上的图像。
- ㉕ **多画面选择按钮(MULTI SELECT)**
选择在多画面监视器上监视摄像机图像或者录像机回放图像时显示的多画面格式。
除非按此按钮可转换屏幕格式如下所示：
摄像机图像：
4 → 7 → 9 → 10 → 13 → 16 → 4画面分格
录像机回放图像：
4 → 9 → 16 → 4画面分格
- ㉖ **功能按钮(FUNCTION)**
在多画面监视器上一起显示录像机回放图像和摄像机图像。
选择了组合模式时该指示灯点亮，选择了回放图像的时候该指示灯熄灭。
设置的时候此按钮用于选择下一页。
- ㉗ **预置位置按钮(PRE-POS)**
与数字按钮和CAM (SET)按钮一起，将摄像机移动到希望的预置位置。

②⑧ **静止按钮(STILL)**

静止在多画面监视器上的图像。

选择了静止模式的时候该指示灯点亮。

②⑨ **摄像机设置按钮(CAMERA SET ON/OFF)**

在监视器屏幕上打开或者关闭摄像机设置菜单。

ON: 如果可以的话，在监视器上打开所选择的摄像机的设置菜单。

显示摄像机设置菜单的时候该指示灯点亮。

OFF: 关闭摄像机设置菜单。

③⑩ **设置按钮(SET UP ON/OFF)**

在监视器屏幕上打开或者关闭WJ-FS616/FS616C的设置菜单。

安装(适用于WJ-FS616/FS616C)

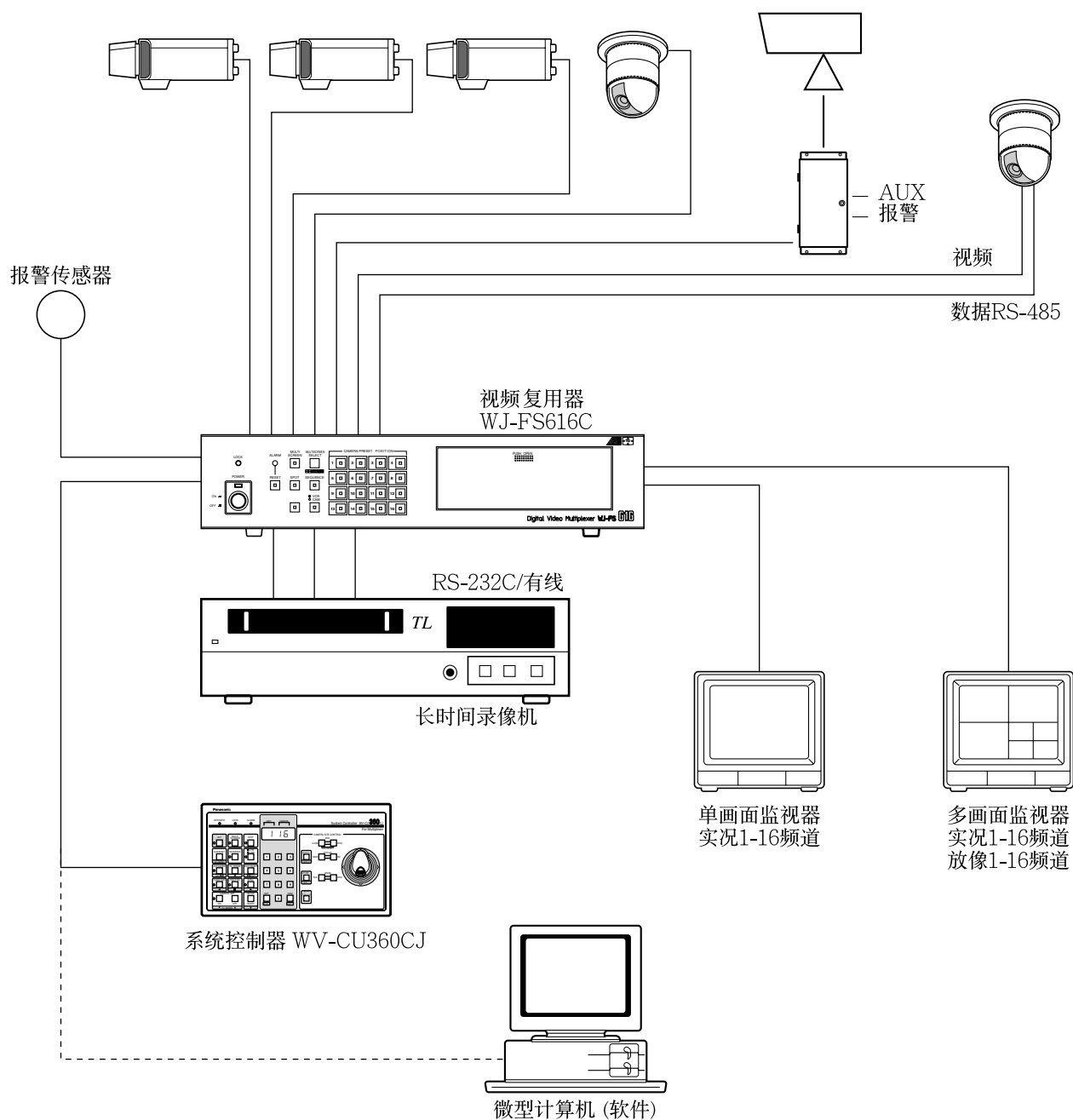
注意

应由有资格的维修人员或系统安装人员严格按照下述说明进行有关安装工作。

■ 系统连接

● 连接示例

本连接示例图示摄像机和报警传感器与视频复用器连接的情况。长时录像机将图像记录下来供日后回放。单画面监视器和多画面监视器显示实时和回放图像。这些设备通过系统控制器WV-CU360CJ进行操作。

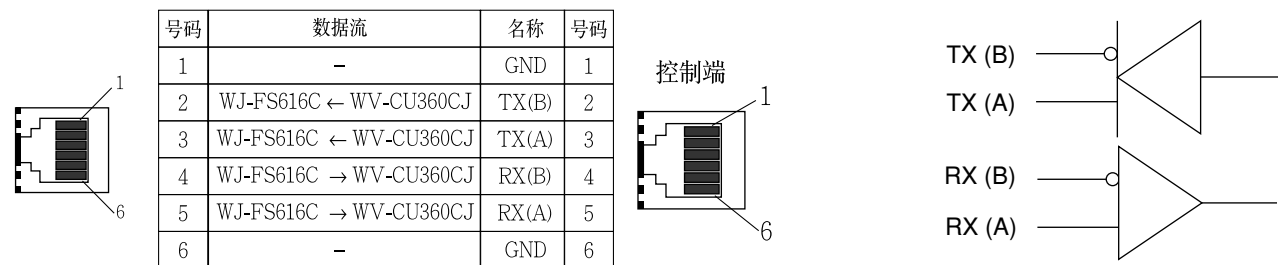


● 数据端口连接(视频复用器)

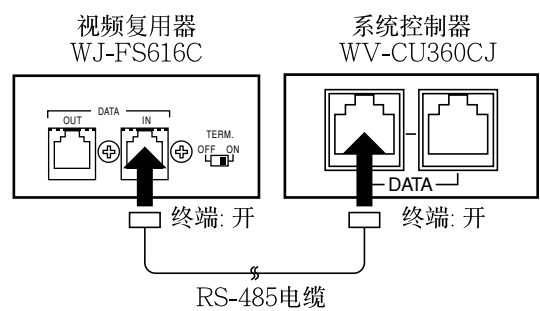
数据端口通过摄像机通讯协议用RS-485电缆连接如下所示。

注：如果使用随机提供的以外的电缆，务必要使用适合RS-485通讯的屏蔽双绞线电缆。

• 内部电路

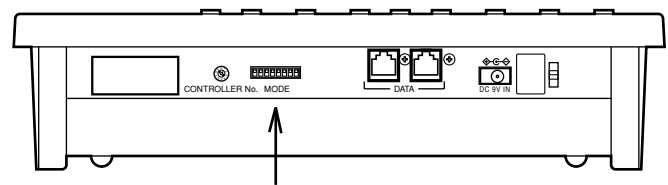


• 基本连接



■ DIP开关设置(视频复用器)

用安装在背面板上的一组8位DIP开关可以指定通讯模式等。出厂初始设置用星号*标出。

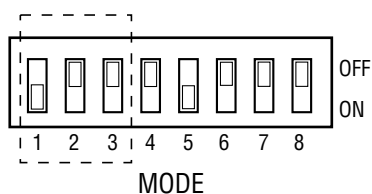


	功能	开关位置	
		OFF	ON
位 1	操作模式	参阅设备版本*	
位 2	操作模式	参阅设备版本*	
位 3	操作模式	参阅设备版本*	
位 4	保留	固定在OFF*	未使用
位 5	线终端	关	开*
位 6	管理员模式	关*	开
位 7	保留	固定在OFF*	未使用
位 8	数据通讯模式	固定在OFF*	未使用

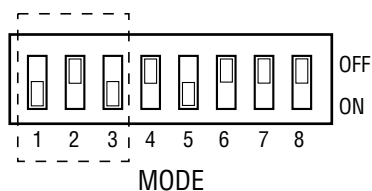
● 设备版本

根据安装在设备上的软件版本，设备识别码由前3位来定义。

• WJ-FS616



• WJ-FS616C



■ 控制器号码设置

在包括视频复用器WJ-FS616/FS616C的系统中使用系统控制器的时候，总要将这个开关设置为1。



CONTROLLER No.

● 开关设置步骤

1. 将直流电源插头从控制器的背面取下。
2. MODE开关的设置参见附表。
 - 第#1位到第#3位开关应当设置在与安装在系统中的视频复用器的版本匹配的位置。
 - 第5位开路或者端接通讯链。当控制器位于通讯链中间的时候此开关应当设置为OFF。
 - 第6位将管理员模式指定为操作员或者管理员。设置控制器时应将其设置成为管理员。
 - 第4，7和8位保留。
3. 将CONTROLLER No.开关设置为1。
4. 将直流电源插头连接到控制器上。

设置步骤(适用于WJ-FS616/FS616C)

将模式开关按照下述设置并且接通控制器电源可以在LED显示器上显示WV-CU360CJ系统控制器的设置菜单。

■ 设置之前

进入设置模式前做以下事情。

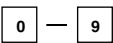
- 1. 确认所有必要的连接和开关设置都已完成。
- 2. 电源关断条件下，将背面的MODE开关的位#6设置为ON(管理员)位置。
- 3. 接通控制器的电源。
- 4. 接通摄像机和其他系统设备的电源。
- 5. 液晶显示屏显示[SEtUP]。控制器可以进入设置模式了。

设置完成后，将开关恢复到原来的位置。

- 1. 电源关断条件下，将背面的MODE开关的位#6设置为OFF(操作员)位置。
- 2. 接通控制器的电源。

■ 设置时使用的按钮和控制

下述按钮和操作杆用于设置。



数字按钮：用于选择参数



CAM/SET按钮：执行模式和参数接入子菜单。



UNIT/ESC按钮：用于回到前一级菜单



上：选择设置菜单



下：选择设置菜单



或



左：减少参数



或



右：增加参数

■ 控制器设置

一边观察正面板上的LED显示一边为控制器设置波特率奇偶校验模式。

菜单选择	设置菜单				参数选择(初始*)
	LED显示	读	功能		
否 是	SEtUP	设置	初始显示	CAM [] → SET	LED显示提示输入密码
	• • • • • 闪烁	提示管理员 密码	权限		输入一个5位密码, 按(12345*) CAM [] SET
上下移动操作杆 进行选择。  	SPEEd	速度	波特率(bps)	按两次 CAM [] → SET	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
	PrtY	奇偶	奇偶校验	← [] ESC	(1) 无 (2) 偶*

● 管理员权限

- 显示[SEtUP]的时候按CAM/SET按钮。出现[- - - -]提示。
- 用数字按钮输入一个密码，然后按CAM/SET按钮。
出厂初始设置值为[12345]。
- 如果输入的密码有效，显示[SPEEd]字样。如果输入的密码不正确菜单回到[SEtUP]。

● 波特率

在此菜单中，选择通讯速率(bps: 每秒位)。通讯速率要与WJ-FS616/FS616C匹配。

- 显示[SPEEd]并且按CAM/SET按钮两次。
- 左右移动操作杆或者按[+]和[-]按钮输入括号扩起来的数字，如(3),选择参数。
出厂初始设置值为9 600 bps。

- (1) 2 400: 2 400 bps
- (2) 4 800: 4 800 bps
- (3) 9 600: 9 600 bps
- (4) 19 200: 19 200 bps

注：选择较慢的速率(例如2 400 bps)将延迟响应时间(例如，报警激活后到复位的时间)。

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

● 奇偶

在此菜单中选择奇偶校验模式。

1. 显示[PrtY]并且按CAM/SET按钮两次。
2. 用操作杆选择一个参数。
出厂初始设置值为偶。

n: 无

E: 偶校验

3. 按CAM/SET按钮使选择生效。
4. 按ESC按钮回到前一级菜单。

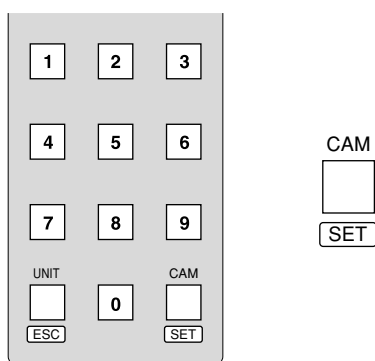
操作步骤(适用于WJ-FS616/FS616C系统)

注：控制器与WJ-FS616/FS616C的共同操作参见WJ-FS616/FS616C随机附带的说明书。以下几页仅叙述与WJ-FS616/FS616C不同的操作。

■ 摄像机选择

选择到一台连接到系统设备的摄像机。

1. 用数字按钮输入摄像机号码。
号码出现在LED显示器上。
2. 按下CAM/SET按钮。



注：报警激活，多画面显示，或序列模式开的情况下，[--]出现在LED显示器的摄像机显示区。

可以控制以下摄像机功能。

- 摇动/俯仰
- 聚焦
- 变焦距
- 光圈
- 除霜开/关(ON/OFF)(摄像机外罩)
- 雨刷开/关(ON/OFF)(摄像机外罩)
- 预置位置(组合摄像机)
- 起始位置(组合摄像机)
- 自动摇动(组合摄像机)

使用WV-CS854或者较新型号的摄像机的时候可以控制以下附加功能。

- 在彩色图像和黑白图像之间切换(组合摄像机)
- 巡视学习功能(组合摄像机)
- 摄像机功能(组合摄像机)

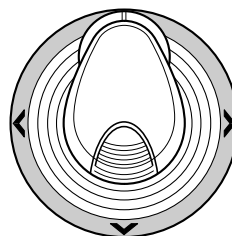
■ 摄像机控制

通过WV-CU360CJ对摄像机及其外围设备进行控制如下所示。下文如果涉及到你的系统中所没有装备的设备，其部分描述可能不起作用。

● 摇动/俯仰控制

按照下述步骤以手动或者自动摇动模式控制安装在摇动/俯仰头上的普通摄像机或者组合摄像机。

1. 用操作杆控制器将摇动/俯仰移动到所希望的方向。



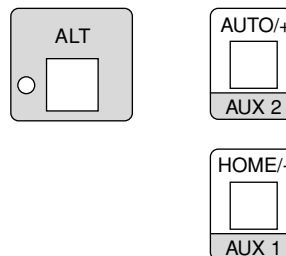
2. 按AUTO/+按钮激活预置的自动摇动。

● 辅助控制

此项帮助您控制例如蜂鸣器或者灯等连接到接收器或者组合摄像机上的辅助设备。

● 辅助1/2

1. 按ALT按钮使ALT指示灯点亮。



2. 按AUX 1或者AUX 2按钮操作或者取下所选择的摄像机的辅助功能。

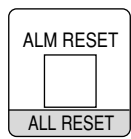
注：在变焦、聚焦、或者摇动/俯仰操作时辅助控制会被忽略。

报警操作

当WV-CU360CJ从WJ-FS616/FS616C收到一个报警信号，报警指示灯闪烁。当报警自动复位时，报警指示灯从闪烁转为稳定点亮。摄像机号码出现在LED显示器的摄像机区。

报警复位

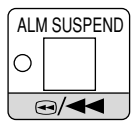
1. ALT指示灯没有点亮时按**ALM RESET**按钮。激活的报警被复位，并且控制器上的报警指示灯熄灭。



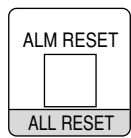
2. 按**ALT**按钮，然后按**ALM RESET**按钮可以复位全部连接在菊花链上的视频复用器发出的报警。

报警挂起

1. 按**ALM SUSPEND**按钮2秒钟以上将挂起报警。**ALARM SUSPEND**指示灯点亮。



2. 按**ALM RESET**按钮复位报警挂起。**ALM SUSPEND**指示灯熄灭。



录像机控制

在ALT指示灯点亮的时候，可以从控制器使用下列按钮对连接到视频复用器的录像机进行控制。

功能	图标	注
快倒带		
暂停		
快进		
倒回放		
停止		
回放		
T/L(长时间)模式关		例如，从72H模式到24H模式的改变。
上		例如，从24H模式到72H模式的改变。
记录		

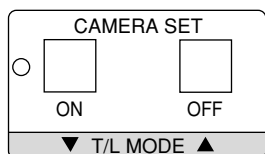
■ 摄像机设置

从控制器对连接到WJ-FS616/FS616C的摄像机进行设置。

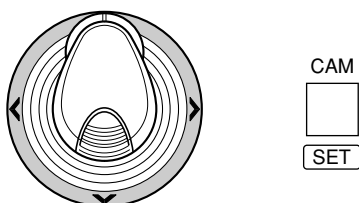
注：确认将视频复用器与控制器设置为相同的通讯参数。

● 一般设置

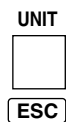
1. 按数字按钮选择一台摄像机，然后按**CAM/SET**按钮。
2. 按下**CAMERA SET ON**按钮。CAMERA SET UP MENU菜单显示在监视器上时，ON指示灯点亮。



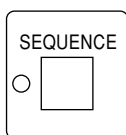
3. 上下移动操作杆选择一个设置项目。左右移动操作杆选择一个参数，然后按**CAM/SET**按钮使选择生效或者进入下一级子菜单。



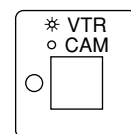
4. 按**UNIT/ESC**按钮执行选择并且回到高一层菜单。



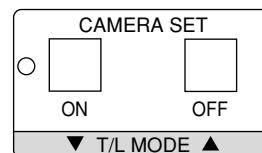
5. 按**SEQUENCE**按钮进入SPECIAL菜单。



6. 按**VTR/CAM**按钮将所有功能复位为初始值，或者按**SEQUENCE**按钮复位所选择的功能。



7. 按**CAMERA SET OFF**按钮关闭摄像机设置菜单。



● 预置位置设置的快捷方法

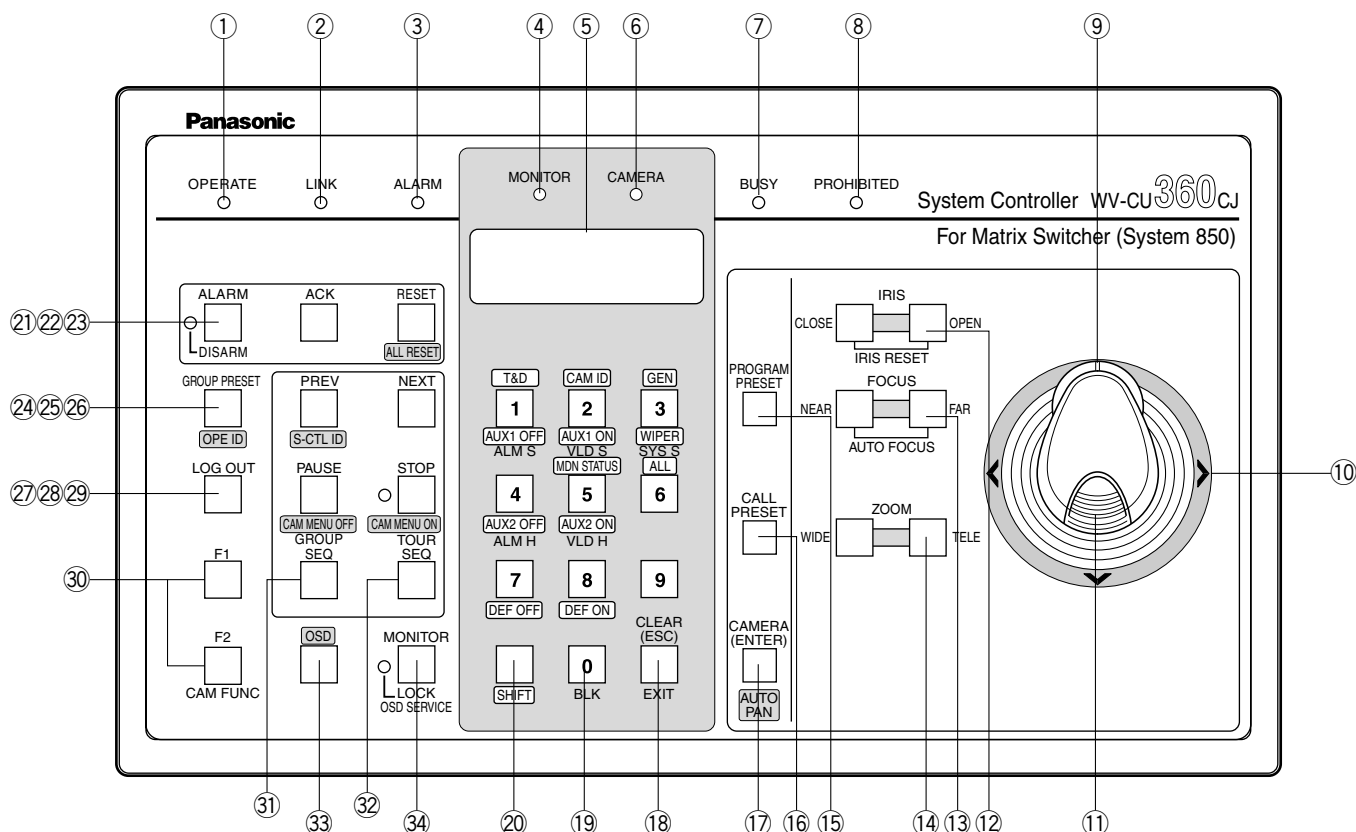
可以为摄像机位置设置一个快捷方法而不必经过全部预置过程。快捷方法只对有预置功能的摄像机有效。

1. 打开摄像机的PRESET菜单。
2. 显示设置菜单的时候按**ALT**按钮。
3. 用操作杆将摄像机移动到所希望的预置位置。
4. 用**IRIS**, **FOCUS**和**ZOOM**按钮调整图像。
5. 再按**ALT**按钮。预置条件注册后，操作杆转变为移动光标功能。

系统850
WJ-SX850
矩阵转换开关系统

主要操作控制器及其功能

■ 正面视图(系统850矩阵转换开关模板)



- ① 工作指示灯(OPERATE)
电源提供给系统控制器时点亮。
- ② 连接指示灯(LINK)
与主CPU建立起通讯后该指示灯点亮。
- ③ 报警指示灯(ALARM)
报警激活时，此灯点亮。使用数字按钮选择报警号码，然后按ALARM和RESET按钮使指示灯熄灭。
- ④ 监视器指示灯(MONITOR)
监视器号码显示在LED显示器上时该指示灯点亮。
- ⑤ LED显示
显示当前控制的监视器和摄像机的号码。它也显示数字输入和出错状态等。
- ⑥ 摄像机指示灯(CAMERA)
摄像机号码显示在LED显示器上时该指示灯点亮。
- ⑦ 忙指示灯(BUSY)
当试图控制某个已经由较高优先级别的操作人员所控制的监视器或者摄像机时，或者当较高优先级别的操作人员选择了你当前所操作的监视器或者摄像机时点亮。
在此指示灯熄灭以前不能从系统控制器进行操作。
- ⑧ 禁用指示(PROHIBITED)
当试图进行权限所不允许的功能操作时此指示灯点亮3秒钟。
- ⑨ 变焦距轮型控制器
当摄像机上装有指定镜头时，用此控制器可调节镜头变焦距。向右转动控制器将景物扩大，向左转动控制器将景物缩小。

⑩ 操作杆控制器

此操作杆用于手工操作摄像头的摇动和俯仰或在激活的监视器屏幕上的摄像机菜单中移动光标。

▲: 向上
▼: 向下
◀: 向左
▶: 向右

⑪ 上端按钮

按下这个按钮自动地设置指定摄像机的镜头聚焦。

⑫ 光圈按钮(IRIS, CLOSE/OPEN)

这二个按钮用于关闭或打开装有指定镜头的摄像机光圈。

如果同时按下这二个按钮, 镜头光圈将复位为出厂初始值。

⑬ 聚焦按钮(FOCUS, NEAR/FAR)

这二个按钮用于关闭或打开装有指定镜头的摄像机光圈。

同时按下这二个按钮, 如果指定摄像机装备了自动聚焦功能, 则镜头聚焦会自动设置。

⑭ 变焦距按钮(ZOOM, WIDE/TELE)

如果摄像机装备了特定镜头, 此按钮可以缩放图像。

⑮ 编程预置按钮(PROGRAM PRESET)

与数字按钮和CAMERA(ENTER)按钮一起在装备了指定摄像机的系统中保存摄像机的预置位置。

将摄像机移动到所希望的预置位置, 按数字按钮选择一个预置号码, 即可保存预置位置。按住PROGRAM PRESET按钮然后按CAMERA(ENTER)按钮。

⑯ 调出预置位置按钮(CALL PRESET)

在装备了指定摄像机的系统中与数字按钮一起将所选择的摄像机的摇动/俯仰头移动到预置位置。

⑰ 摄像机/输入按钮[CAMERA (ENTER)]

CAMERA: 用于选择摄像机。按CAMERA(ENTER)按钮后按相应数字按钮可以选择一台摄像机。

ENTER: 与数字按钮一起用于输入数字, 例如操作员识别码和密码等等。

它也用于执行当前高亮的选择项目以及进入摄像机菜单的下一级子菜单。

按住SHIFT按钮的同时按CAMERA (ENTER)按钮可以激活所选择摄像机的自动摇动功能(AUTO PAN)。

⑲ 清除/退出按钮[CLEAR (ESC)]

清除: 从LED显示上清除数字输入。

退出: 从当前高亮的选择项目退出或者回到摄像机菜单的前一页。

此按钮也用于从报警选择模式退出到正常操作模式。

⑲ 数字按钮(0 - 9)

用于向系统输入数字, 例如摄像机号码, 监视器号码, 序列号码, 预置位置等等。

按住SHIFT按钮的同时按数字按钮可以选择特定功能如下所示。

1: 关断接收器用户辅助开关1(AUX1 OFF)

2: 接通接收器用户辅助开关1(AUX1 ON)

3: 这些按钮释放后接通摄像机机舱雨刷器(WIPER)

4: 关断接收器用户辅助开关2(AUX2 OFF)

5: 接通接收器用户辅助开关2(AUX2 ON)

7: 关断摄像机机舱除霜器(DEF OFF)

8: 接通摄像机机舱除霜器(DEF ON)

⑳ 转换按钮(SHIFT)

与指定特殊功能的按钮组合按下此按钮, 可激活这些功能。

㉑ 报警按钮(ALARM), 消除报警指示灯(DISARM)

与数字按钮一起使用选择报警。按ALARM按钮后按数字按钮选择一个激活的报警。

按此按钮可以启动或者停止分配给报警的摄像机和监视器的报警响应。

当关闭报警响应后按钮旁边的DISARM指示灯点亮。

㉒ 报警应答按钮(ACK)

应答激活的报警。按ALARM按钮后按数字按钮选择一个报警。按数字按钮选择一个希望的报警处理行动, 然后按ACK按钮。ACK指示灯点亮。应答报警后, 按RESET按钮将报警复位。ACK指示灯将熄灭。

㉓ 报警复位按钮(RESET)

取消激活的报警。

按此按钮复位当前激活设备上的激活的报警。

按住SHIFT按钮的同时按此按钮可以一次复位当前所有激活的报警(ALL RESET)。

在摄像机菜单中按RESET按钮可以复位所选择项目的参数或者在光标位于菜单中SPECIAL位置时打开摄像机特殊菜单。按住SHIFT按钮的同时按此按钮可以恢复所有出厂初始设置值。

②4 组预置按钮(GROUP PRESET)

与数字按钮一起激活事先编程的组预置功能。
按住SHIFT按钮的同时按此按钮可以在LED显示器上显示操作员识别码(OPE ID)3秒钟。

②5 后退按钮(PREV)

将先前用PAUSE按钮暂停在激活的监视器上的巡视序列倒退移动一步。
此按钮也用于选择摄像机。如果激活的监视器处于点监视器模式，按住CAMERA (ENTER)按钮的同时按PREV按钮可以将当前选择的摄像机转换为号码较小的下一台摄像机。
类似地，按住MONITOR按钮的同时按PREV按钮可以将当前选择的监视器转换为号码较小的下一台监视器。
选择报警时，按住ALARM按钮的同时按PREV按钮可以选择前一个报警。
按住SHIFT按钮的同时按此按钮可以在LED显示器上显示控制器识别码(S-CTL ID)3秒钟。

②6 向前按钮(NEXT)

将先前用PAUSE按钮暂停在激活的监视器上的巡视序列向前移动一步。
此按钮也用于选择摄像机。如果激活的监视器处于点监视器模式，按住CAMERA (ENTER)按钮的同时按NEXT按钮可以将当前选择的摄像机转换为号码较大的下一台摄像机。
类似地，按住MONITOR按钮的同时按PREV按钮可以将当前选择的监视器转换为号码较大的下一台监视器。
选择报警时，按住ALARM按钮的同时按NEXT按钮可以选择下一个报警。

②7 退出登录按钮(LOG OUT)

与CAMERA (ENTER)按钮一起按此按钮，可以从系统登录中退出。
为了避免意外退出，按住LOG OUT按钮的同时按CAMERA (ENTER)按钮。

②8 暂停按钮(PAUSE)

暂停正在激活监视器上运行的巡视组序列。
按住SHIFT按钮的同时按PAUSE按钮可以在激活的监视器上关闭摄像机菜单。STOP指示灯熄灭(CAM MENU OFF)。

②9 停止按钮(STOP)

停止正在激活监视器上运行的巡视组序列。
选择正在巡视所选择的序列的监视器然后按此按钮可以停止组序列。
按住SHIFT按钮的同时按STOP按钮可以在激活的监视器上打开摄像机菜单。STOP指示灯点亮(CAM MENU ON)。

③0 功能按钮(F1, F2)

提供对摄像机属性和操作功能的控制。

F1：保留给以后使用。

F2：按此按钮可以选择对所选择摄像机功能(CAM FUNC)的控制模式。

③1 组序列按钮(GROUP SEQ)

与数字按钮一起使用，在所分配的监视器上运行组序列。
按GROUP SEQ按钮将先前用PAUSE按钮暂停在激活的监视器上的巡视序列从下一步开始向前运行。

③2 巡视序列按钮(TOUR SEQ)

与数字按钮一起使用，在所分配的监视器上运行巡视序列。
按TOUR SEQ按钮将先前用PAUSE按钮暂停的序列从下一步重新开始向前运行。

③3 OSD(屏幕显示)按钮(OSD)

在所选择的监视器上显示或者隐藏信息。按数字按钮如下所示，然后按OSD按钮。

1: 时钟显示(T&D)

2: 摄像机标题显示(CAM ID)

3: 一般状态显示(GEN)

5: 监视器状态显示(MON STATUS)

6: 除了时钟以外的信息显示(ALL)

③④ 监视器/监视器锁/是OSD服务按钮
(MONITOR/OSD SERVICE), 锁定指示灯
(LOCK)

要选择监视器, 用数字按钮输入监视器的号码然后按下此按钮。

按住SHIFT按钮的同时按此按钮可以锁定或者释放当前选择的监视器。LOCK指示灯点亮时, 其他通过监视器的操作都不能进行。

按数字按钮如下所示然后按此按钮, 可以进行OSD服务。

- 1: ALMS, 报警状态
- 2: VLDS, 视频丢失检测状态
- 3: SYS S, 系统状态
- 4: ALM H, 报警历史
- 5: VLDH, 视频丢失检测历史

安装(适用于系统850)

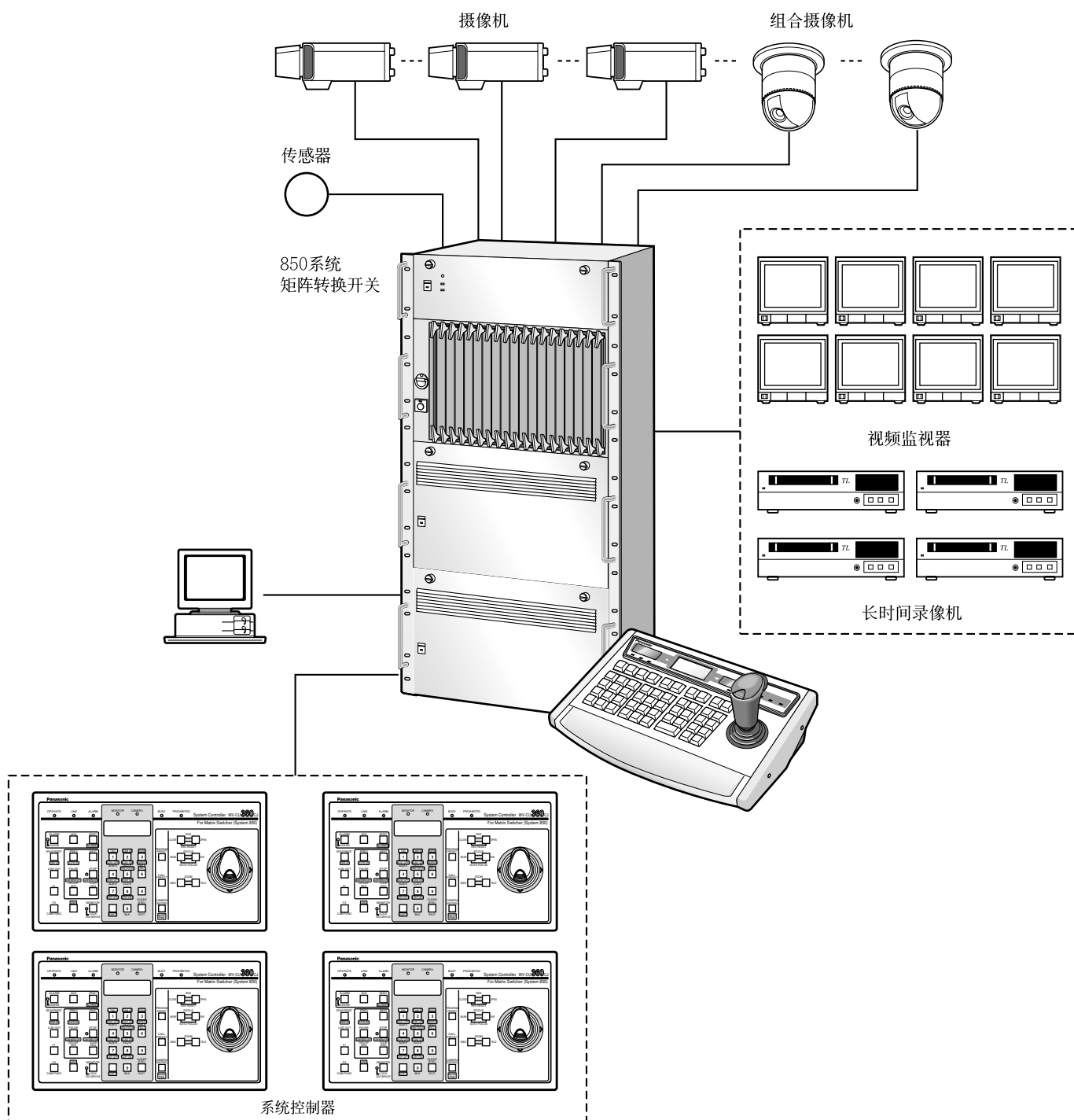
注意

应由有资格的维修人员或系统安装人员严格按照下述说明进行有关安装工作。

■ 系统连接

● 连接范例

本连接范例显示包括多数摄像机，报警传感器，监视器等等与系统850矩阵转换开关连接的大规模系统的情况。系统控制器WV-CU360CJ提供控制系统的主要操作功能。

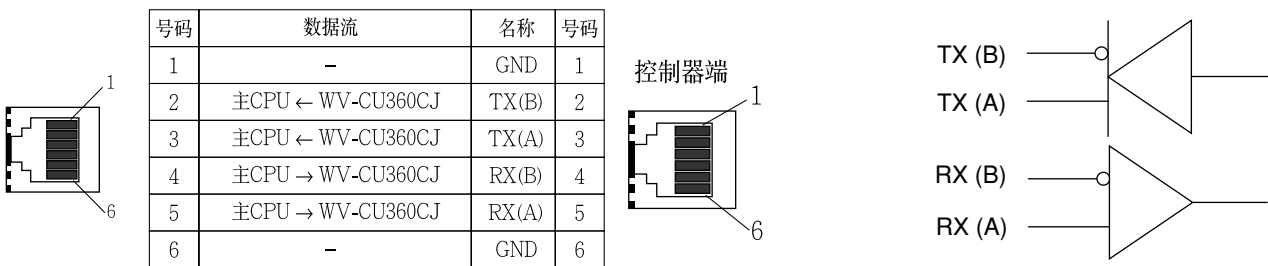


● 数据端口连接

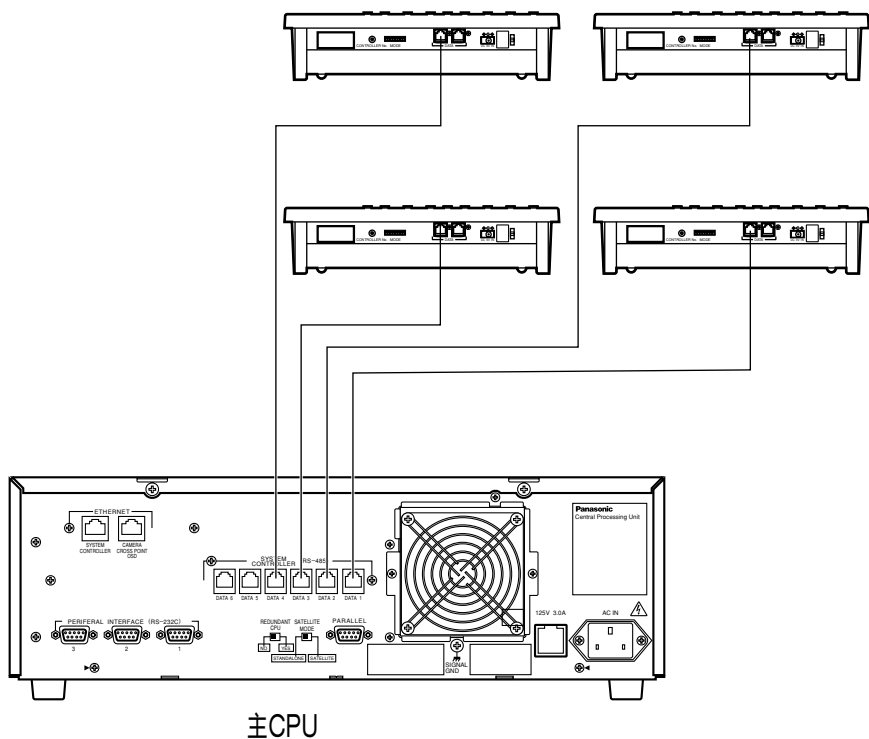
数据端口通过摄像机通讯协议用RS-485电缆连接如下所示。

注：如果使用随机提供的以外的电缆，务必要使用适合RS-485通讯的屏蔽双绞线电缆。

● 内部电路

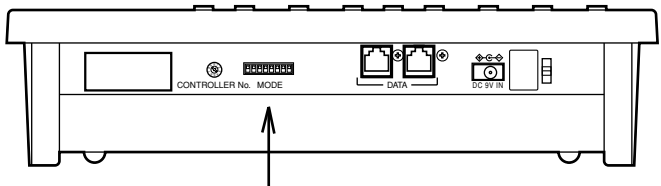


● 基本连接



DIP开关设置

用安装在背面板上的一组8位DIP开关可以指定通讯模式等。出厂初始设置用星号*标出。



	功能	开关位置	
		OFF	ON
位 1	操作模式	*	见下文
位 2	操作模式	*	见下文
位 3	操作模式	*	见下文
位 4	保留	*	未使用
位 5	线终端	关	开*
位 6	管理员模式	关*	开
位 7	波特率选择	未使用	固定在ON
位 8	重复传送	一次*	三次

控制器号码设置

在系统850中使用系统控制器的时候，总要将这个开关设置为1。

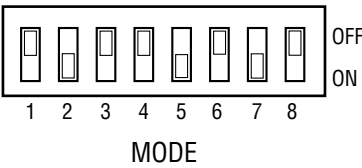


CONTROLLER No.

开关设置步骤

对MODE DIP开关和CONTROLLER No.开关进行设置如下。

1. 将直流电源插头从控制器的背面取下。
2. 开关的设置如下所示。



- 位1应当设置为OFF*。
- 位2应当设置为ON。
- 位3应当设置为OFF*。
- 位4应当设置为OFF*。
- 系统850工作于基本运行(一对一)方式时位5应当设置为ON*。
- 正常情况下位6应当设置为OFF*，而在对控制器进行设置的时候应当设置为ON(管理员模式)。
- 位7应当设置为ON。在控制器设置时选择波特率
- 正常情况下位8应当设置为OFF*。

3. 将直流对于插头连接到控制器。

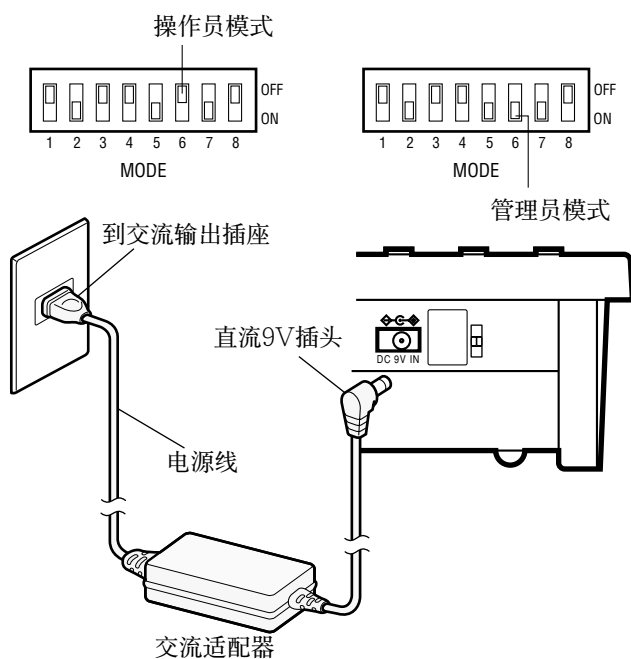
设置步骤(适用于系统850)

按照下述设置MODE开关和电源，在WV-CU360CJ系统控制器的LED显示器上显示设置菜单。

■ 设置之前

进入设置模式前做以下事情。

1. 确认所有必要的连接和开关设置都已完成。
2. 电源关断条件下，将背面的MODE开关的位#6设置为ON位置。(管理员模式)
3. 接通控制器的电源。
4. 接通摄像机和其他系统设备的电源。
5. 液晶显示屏显示[SEtUP]。控制器可以进入设置模式了。

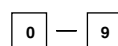


设置完成后，将开关恢复到原来的位置。

1. 电源关断条件下，将背面的MODE开关的位#6设置为OFF位置。
2. 接通控制器的电源。

■ 设置时使用的按钮和控制

下述按钮和操作杆用于设置。



数字按钮：用于选择参数



CAM (ENTER)按钮：执行模式和参数接入子菜单。



CLEAR (ESC)按钮：用于回到前一级菜单



上：选择设置菜单



下：选择设置菜单



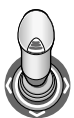
左：减少参数



右：增加参数

■ 设置步骤

一边观察正面板上的LED显示一边为控制器设置波特率奇偶校验模式。

菜单选择	设置菜单				参数选择(初始*)
	LED显示	读	功能		
否 是	SEtUP	设置	初始显示	CAM [] SET	LED显示提示输入密码
	• • • • • 闪烁	提示管理员 密码	权限		输入一个5位密码, 按(12345*)
上下移动操作杆 进行选择。  	SPEED	速度	波特率(bps)	按两次 CAM [] SET	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
	PrtY	奇偶	奇偶校验	MON [] ESC	(1) 无* (2) 偶

● 管理员权限

- 显示[SEtUP]的时候按**CAM(ENTER)**按钮。出现
[----]提示。
- 用数字按钮输入一个密码，然后按**CAM(ENTER)**按钮。
出厂初始设置值为[12345]。
- 如果输入的密码有效，显示[SPEED]字样。如果输入的密码不正确菜单回到显示[SEtUP]。

● 波特率

在此菜单中选择通讯速率(bps:位每秒)。通讯速率应当与WJ-SX850的通讯速率匹配。

- 显示[SPEED]并且按**CAMERA(ENTER)**按钮两次。
- 移动操作杆选择一个参数输入一个括在括号中的数字，如(3)。
出厂初始设置值为9 600 bps。

- (1) 2 400: 2 400 bps
(2) 4 800: 4 800 bps
(3) 9 600: 9 600 bps
(4) 19 200: 19 200 bps

注：选择较慢的速率(例如2 400 bps)将延迟响应时间(例如，报警激活后到复位的时间)。

- 按**CAM(ENTER)**按钮使选择生效。
- 按**CLEAR(ESC)**按钮回到[SPEED]菜单。

● 奇偶

在此菜单中选择奇偶校验模式。

- 显示[PrtY]并且按**CAM(ENTER)**按钮两次。
- 用操作杆选择一个参数。
出厂初始设置值为无。
- 按**CAM(ENTER)**按钮使选择生效。
- 按**CLEAR(ESC)**按钮回到[SPEED]菜单。

注：WJ-SX850与控制器的波特率和奇偶校验模式必须相同，否则通讯不能进行。

操作步骤(适用于系统850)

注：本节仅叙述登录，退出登录等重要操作以及与从系统850面板是进行操作所不同的部分。关于摄像机选择和监视器选择等的进一步信息请参阅系统850随机提供的说明书。

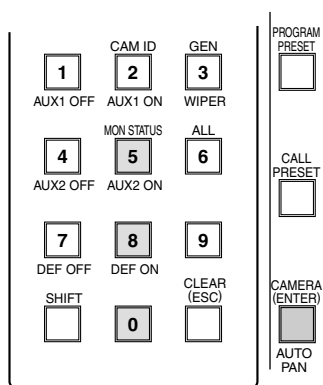
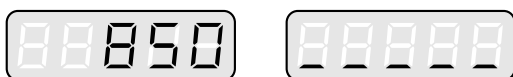
■ 登录与退出登录

● 登录

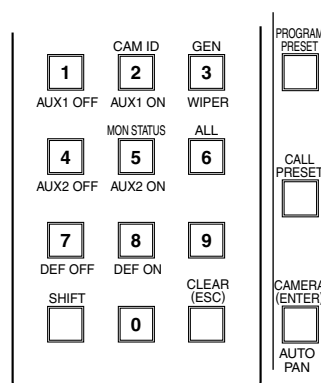
1. 接通系统中所有设备的电源开关。
2. 将WV-CU360CJ系统控制器的交流附件插入电源插座以接通其电源。
OPERATE指示灯点亮并且“NO USER”字样显示在系统控制器的LED显示器上。



3. 使用数字按钮输入你的操作员识别码(最多5位数)，然后按[CAMERA (ENTER)]按钮。LED显示器显示下划线。



4. 使用数字按钮输入你的注册密码(最多5位数)，然后按[CAMERA (ENTER)]按钮。
如果输入的操作员识别码和密码有效LED显示器显示“READY”字样。



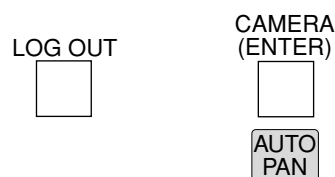
注：如果登录失败(操作员号码或者密码错误)，控制器上的PROHIBITED指示灯将点亮，并且“NO ACCESS”字样会在LED显示器上闪动3秒钟。然后登录过程回到开始状态。



● 退出

1. 按住LOG OUT按钮的同时按[CAMERA (ENTER)]按钮。

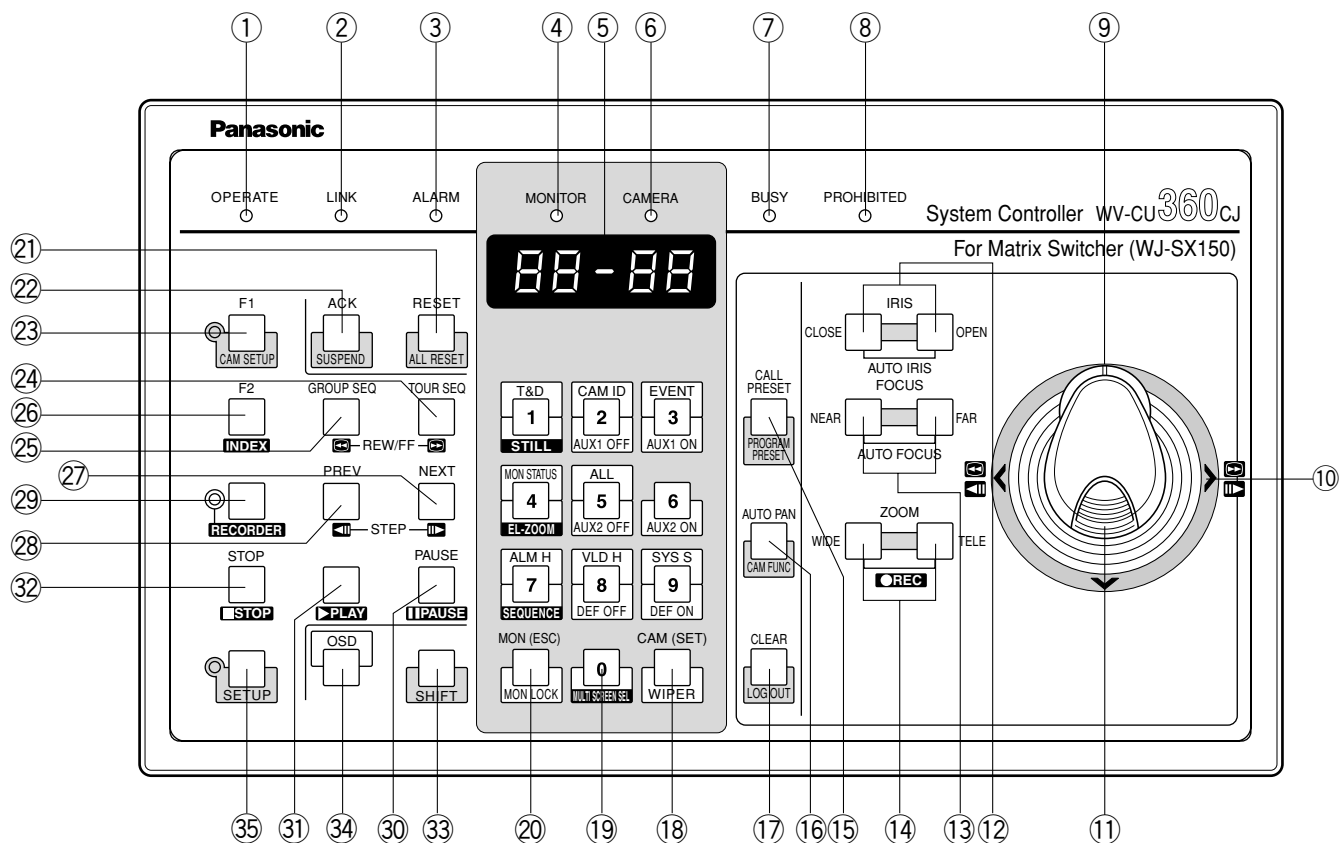
“NO USER”字样显示在LED显示器上。



WJ-SX150 矩阵转换开关系统

主要操作控制器及其功能

■ 正面视图(WJ-SX150模板)



① 工作指示灯(OPERATE)

当系统控制器的电源接通时，此灯点亮。

② 连接指示灯(LINK)

当与矩阵开关的通讯建立起来时，此灯点亮。

③ 报警指示灯(ALARM)

存在报警条件时，此灯点亮。

④ 监视器指示灯(MONITOR)

监视器编号出现在发光二极管显示器上时，此指示灯点亮。

⑤ 发光二极管显示

显示监视器编号，摄像机编号，输入的数字，和错误状态等。

⑥ 摄像机指示灯(CAMERA)

摄像机编号出现在发光二极管显示器上时，此指示灯点亮。

⑦ 忙指示灯(BUSY)

当优先级别较高的操作员选择了你当前正在使用的摄像机或者监视器时，此灯点亮。
在此灯熄灭前，从系统控制器进行的操作失效。

⑧ 禁用指示(PROHIBITED)

当操作员试图控制一个已经由优先级别较高的操作员使用的摄像机或者监视器时，或者操作员进行了被禁用的操作时，此灯点亮。

⑨ 变焦距轮型控制器

当摄像机上装有指定镜头时，用此控制器可调节镜头变焦距。向右转动控制器将景物扩大，向左转动控制器将景物缩小。

⑩ 操纵杆

此操纵杆用于手工操作摄像机，摄像机机位附件，以及录像机，或者在启动的监视器屏幕上的设置菜单中移动光标。

- ∧： 向上
- ∨： 向下
- <： 向左，倒带*，退后一帧*
- >： 向右，快进*，前进一帧*

* 连接了录像机并且按下RECORDER按钮以后生效。

⑪ 上端按钮

按下这个按钮自动地设置指定摄像机的镜头聚焦。

⑫ 光圈按钮(IRIS CLOSE/OPEN)

这些键用于关闭或打开装有指定镜头的镜头光圈。

当同时按下CLOSE和OPEN按钮，镜头光圈恢复到出厂时的初始设置值。

⑬ 聚焦按钮(FOCUS NEAR/FAR)

这些按钮用于调整装有指定镜头的摄像机的聚焦。

当同时按下这NEAR和FAR按钮，如果指定摄像机装有自动聚焦功能，则镜头聚焦自动设置。

⑭ 变焦距按钮(ZOOM WIDE/TELE)

这些按钮用于调整装有指定镜头的摄像机的变焦距。

当同时按下WIDE和TELE按钮，则开始录象。

⑮ 调用预置按钮(CALL PRESET/PROGRAM PRESET)

与数字按钮一起按此按钮，可以对所选择的摄像机的预置位置进行编程。(所指定的摄像机支持此功能的条件下)

⑯ 自动摇动按钮(AUTO PAN/CAM FUNC)

启动装有自动摇动功能的摄像机的该功能。

与数字按钮一起按此按钮，可以执行摄像机功能。(所指定的摄像机须支持此功能)

⑰ 清除按钮(CLEAR/LOG OUT)

使用此按钮清除在发光二极管上显示的数字输入，或者从ALARM HISTORY表，VIDEO LOSS HISTORY表，或SYSTEM STATUS表中退出。

按住SHIFT按钮同时按此按钮可以从系统登录中退出。

⑱ 摄像机(设置)按钮[CAM(SET)/WIPER]

CAM：按对应数字按钮然后按此按钮可以选择摄像机。

SET：与数字按钮同时按此按钮可以输入例如操作员编号和密码等数字。

还可以使用此按钮执行当前高亮的选择，或者在SETUP MENU菜单中进入下一级子菜单。

WIPER：按住SHIFT按钮同时按此按钮可以启动摄像机仓的雨刷器。

⑲ 数字按钮

按这些按钮可以向系统输入数字，例如摄像机和监视器的号码，序列号码，以及预置位置等。

- 与SHIFT按钮一起可以在OSD(屏幕显示)中选择参数，进行监视器状态操作，或者在历史列表中进行搜寻。
- 与RECORDER按钮一起可以进行电子变焦距和多屏幕序列操作。

⑳ 监视器(退出)按钮[MOM(ESC)/MON LOCK]

MON：按此按钮选择监视器。

按MOM(ESC)按钮后按对应数字按钮可以选择监视器。

ESC：按此按钮可以从当前高亮选择中退出并且回到SETUP MENU菜单的前一页。

MON LOCK：按住SHIFT按钮同时按此按钮可以防止其他操作员控制监视器。再次按住SHIFT按钮同时按此按钮可以解除锁定。

㉑ 报警重置按钮(RESET/ALL RESET)

RESET：按此RESET按钮可以在当前监视器上重置启动的报警。

ALL RESET：按住SHIFT按钮同时按此按钮可以一次清除全部启动的报警。

㉒ 报警应答按钮(ACK/SUSPEND)

ACK：应答启动的报警。

按ALARM按钮选择报警监视器。

按数字按钮，然后按此ACK按钮，可以选择所希望的报警动作号码。ACK字样会出现在监视器上。

应答报警后按RESET按钮可以重置报警。

ACK字样消失。

SUSPEND：按住SHIFT按钮同时按此按钮可以挂起启动的报警。ALM SUSPENDED字样会出现在监视器上。再次按住SHIFT按钮同时按此按钮可以清除挂起。

- ②③ **功能1按钮(F1/CAM SETUP)**
按住SHIFT按钮同时按此按钮可以在当前监视器上打开摄像机的SETUP MENU菜单。
F1按钮的功能保留给将来使用。
- ②④ **序列巡视按钮(TOUR SEQ)**
与数字按钮同时按此按钮可以在当前监视器上运行序列巡视。
- ②⑤ **组序列按钮(GROUP SEQ)**
按此按钮可以选择组序列。
按GROUP SEQ按钮然后按对应数字按钮可以选择组。
- ②⑥ **功能2按钮(F2/INDEX)**
在记录模式下显示日期和时间输入表。
- ②⑦ **下一个按钮(NEXT)**
在当前监视器上将先前暂停的巡视序列向前移动一步。
也可以用于选择摄像机。如果当前监视器是处于点模式，按住CAM(SET)按钮的同时按NEXT按钮，可以将当前选择的摄像机替换成下一个号码较高的摄像机。
在记录模式下，此按钮可以将回放图象向前移动一步。
- ②⑧ **前一个按钮(PREV)**
在当前监视器上将先前暂停的巡视序列向后移动一步。
也可以用于选择摄像机。如果当前监视器是处于点模式，按住CAM(SET)按钮的同时按PREV按钮，可以将当前选择的摄像机替换成下一个号码较低的摄像机。
在记录模式下，此按钮可以将回放图象向前移动一步。
- ②⑨ **记录按钮(RECORDER)**
按此按钮进入记录模式。
注：同时只能有一个操作员进入记录模式。
- ③⑩ **暂停按钮(PAUSE)**
暂停在当前监视器上进行的巡视序列，回放，或者记录图象。
还用于从巡视序列向前的下一步重新开始或者重新开始回放所记录图象。
- ③⑪ **回放按钮(PLAY)**
开始回放所记录图象。
- ③⑫ **停止按钮(STOP)**
结束在当前监视器上运行的巡视序列，停止在当前监视器上回放所记录图象。
- ③⑬ **转换按钮(SHIFT)**
与特殊功能相关的按钮一起按此按钮可以启动那些功能。
- ③⑭ **屏幕显示按钮(OSD)**
在当前监视器上切换当前选择的项目。
1：显示时钟(T&D)
2：显示摄像机标题(CAM ID)
3：显示事件(EVENT)
4：显示监视器状态(MON STATUS)
5：全部显示(ALL)
7：报警历史列表(ALM H)
8：视频丢失状态列表(VLD H)
9：系统状态列表(SYS S)
- ③⑮ **设置按钮(SETUP)**
按住SHIFT按钮的同时按此按钮可以显示设备的SETUP MENU菜单。
* 连接了录像机时，亦可以回放所录制的图像。

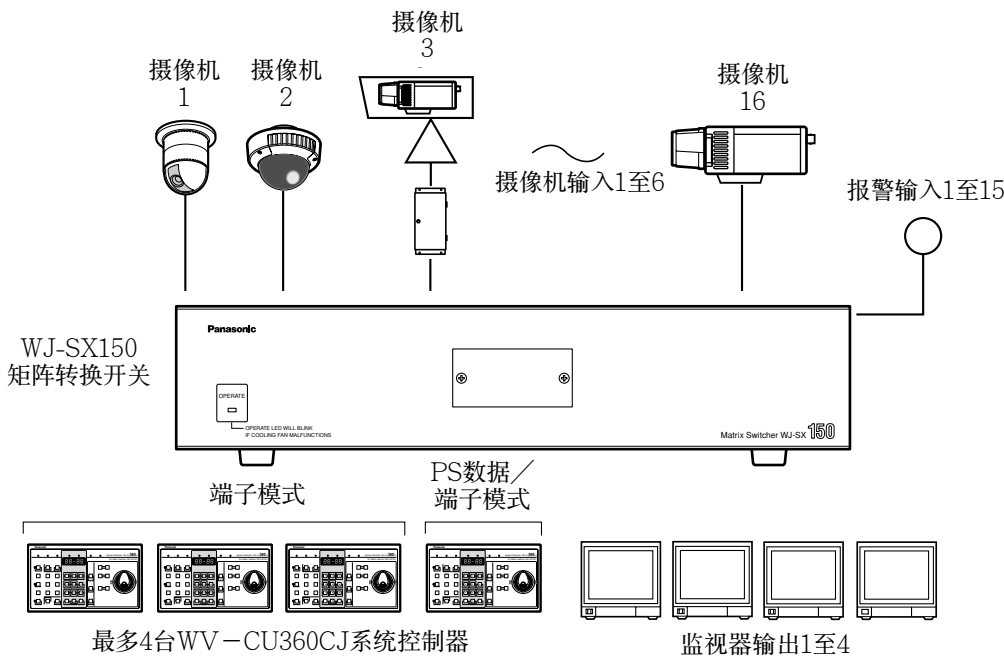
安装 (WJ-SX150)

注意

安装工作应当由有资格的维修人员或者系统安装人员按照以下说明进行。

■ 系统连接

● 连接示例

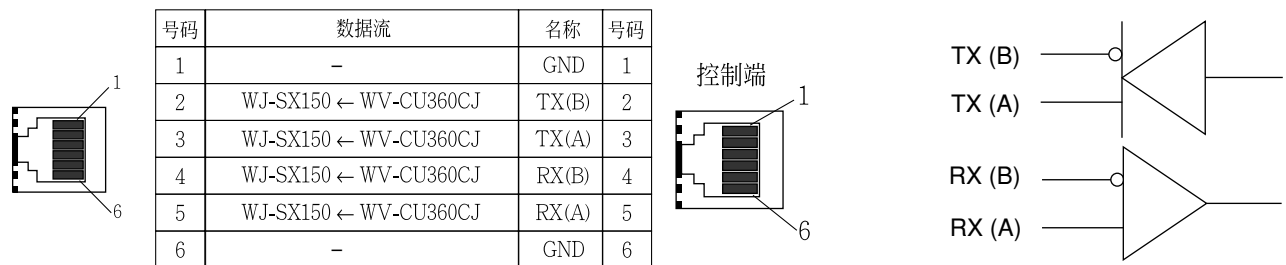


● 数据端口连接

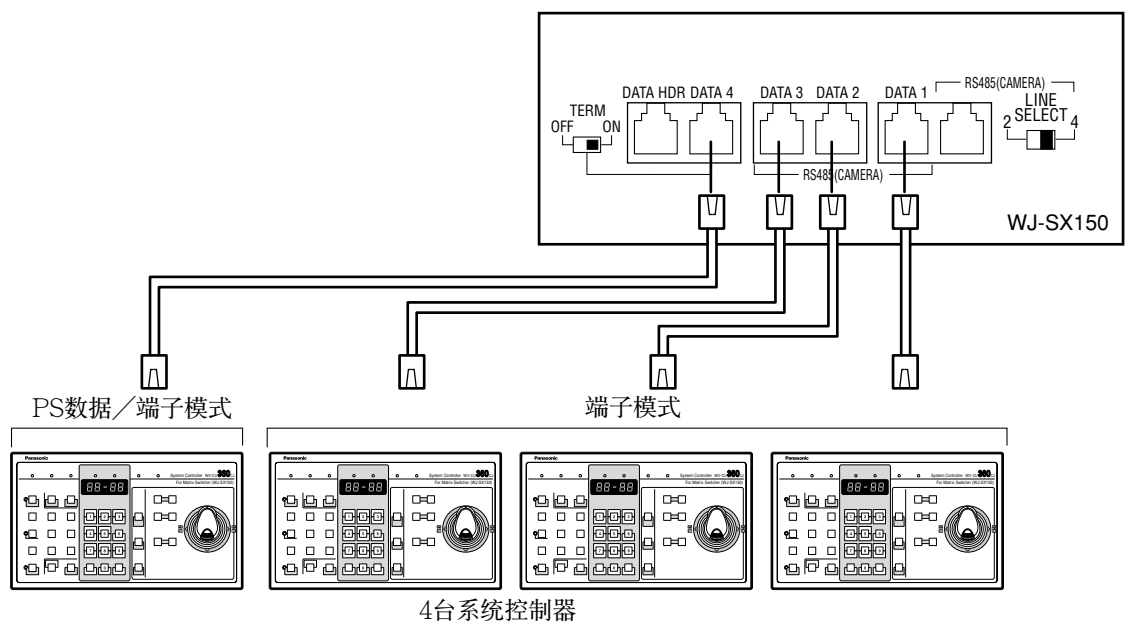
设备的数据端口之间用RS-485电缆连接。

注：如果不使用随机提供的电缆，则应当确认所使用的电缆为适合RS-485通讯的屏蔽4芯双绞线。

• 内部图



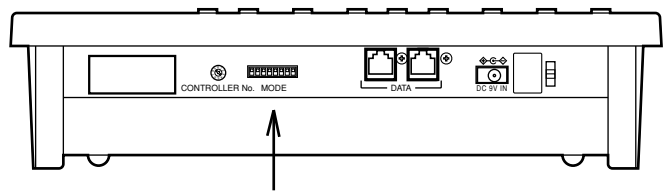
● 基本连接



注：DATA4插孔通过设置与PS数据（默认）或端子模式协议兼容。关于设置，请参看随WJ-SX150附送的使用说明书。

■ DIP开关设置 (端子模式)

安装在背面板上的8位DIP开关用于设置通讯模式等。出厂初始设置位置用星号标出。
使用PS数据时，请参看第91页DIP开关设置（PS数据）。



	功能	开关位置	
		OFF	ON
位 1	操作模式	*	见下文
位 2	操作模式	*	见下文
位 3	操作模式	*	见下文
位 4	保留	*	未使用
位 5	线终端	关	开*
位 6	管理员模式	关*	开
位 7	波特率选择	未使用	固定在ON
位 8	重复传送	一次*	三次

■ 控制器号码设置

与WJ-SX150一起使用系统控制器时总将此开关设置为1。

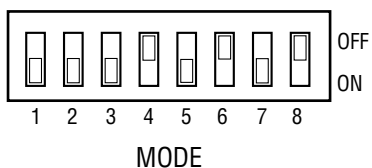


CONTROLLER No.

● 开关设置步骤

MODE DIP开关和CONTROLLER NO开关设置步骤如下。

1. 从背面板上将DC插头取下。
2. 设置开关如下



- 第1位应当设置为ON。
 - 第2位应当设置为ON。
 - 第3位应当设置为ON。
 - 第4位应当设置为OFF。
 - 当与WJ-SX150为直接（一对一）方式连接时，第5位应当设置为ON。
 - 通常第6位应当设置为OFF。而当对控制器进行设置时(管理员模式)应当设置为ON。
 - 第7位应当设置为ON。波特率在设置控制器时进行选择。
 - 通常第8位应当设置为OFF。
3. 将DC插头插回控制器。

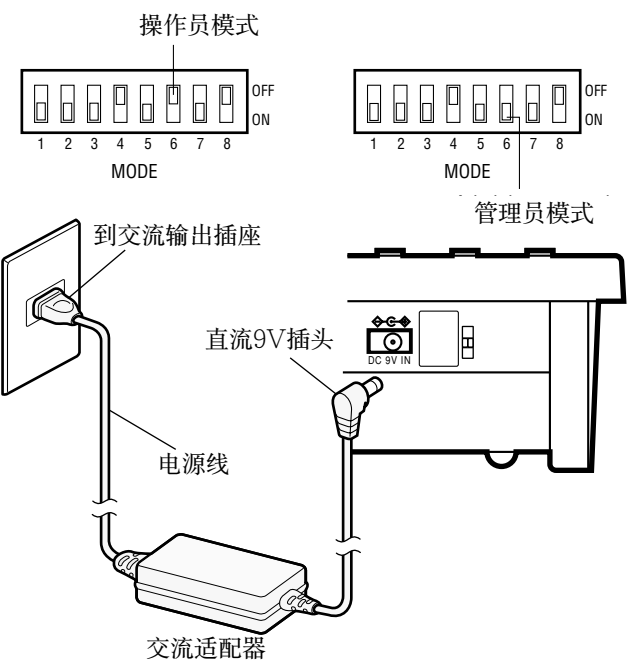
设置步骤 (WJ-SX150)

按照下述设置MODE开关，并且接通控制器的电源可以在发光二极管显示器上显示WV-CU360系统控制器的设置菜单。

■ 设置之前

进入设置模式前完成下列步骤。

1. 确认所有连接和开关设置均已完成。
2. 在关闭电源的情况下将背面板上MODE开关的第6位设置到ON位置(管理员模式)。
3. 接通控制器的电源。
4. 接通摄像机和其他系统设备的电源。
5. 发光二极管显示器显示[SETUP]。此时控制器可以进入设置模式了。

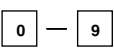


完成设置后，将开关恢复成原来的位置。

1. 在关闭电源的情况下将背面板上MODE开关的第6位设置到OFF位置。
2. 接通控制器的电源。

■ 设置时使用的按钮和控制

设置时使用下列按按钮和操作杆操作。



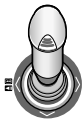
数字按钮：选择参数



CAM(SET)按钮：执行模式和参数，进入子菜单



MON(ESC)按钮：回到前一级菜单



上：选择设置菜单



下：选择设置菜单



左：将光标移至左边



右：将光标移至右边

PREV



减小参数

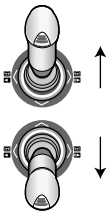
NEXT



增加参数

■ 设置步骤

一边观察前面板上的发光二极管显示器一边为控制器设置波特率和奇偶校验模式。

菜单选择	设置菜单				参数选择(初始*)
	LED显示	读	功能		
否 是	SETUP	设置	初始显示	CAM (SET) [] →	LED显示提示输入密码
	[] 闪烁	提示管理员 密码	权限		输入一个5位密码, 按 CAM (SET) (12345*) []
上下移动操作杆 进行选择。 	SPEED	速度	波特率(bps)	按两次 CAM (SET) [] →	(1) 2 400 (2) 4 800 (3) 9 600* (4) 19 200
	PTY	奇偶	奇偶校验	MON (ESC) ← []	(1) 无* (2) 偶

● 管理员授权

- 显示[SETUP]时按CAM(SET)按钮。出现[----]提示。
- 用数字按钮输入密码，然后按CAM(SET)按钮。
初始设置为[12345]。
- 如果输入的密码有效，出现[SPEED]。如果输入密码失败，菜单回到[SETUP]。

注：选择较慢的速度(如2400bps)可造成响应时间(如重置启动报警的时间)延迟。

- 按CAM(SET)按钮使选择生效。
- 按MON(ESC)按钮回到[SPEED]菜单。

● 波特率

在此菜单中选择通讯速度(bps：每秒位数)。通讯速度应当与WJ-SX150相匹配。

- 显示[SPEED]，按CAM(SET)按钮两次。
- 移动操作杆输入用括号括起来的数字，如(3)，选择参数。
初始设置为9600 bps。

(1) 2400：2400 bps
(2) 4800：4800 bps
(3) 9600：9600 bps
(4) 19200：19200 bps

● 奇偶校验

在此菜单中选择奇偶校验模式。

- 显示[PTY]，按CAM(SET)按钮两次。
- 用操作杆选择参数。
初始设置为无。
n：无
E：偶校验
- 按CAM(SET)按钮使选择生效。
- 按MON(ESC)按钮回到[SPEED]菜单。

注：WJ-SX150与控制器的波特率和奇偶校验模式必须相同，否则数据通讯不能进行。

操作步骤(WJ-SX150)

在进行下述步骤前必须先接通系统中所有设备的电源。

当系统控制器与本设备联接时可以进行以下步骤。

■ 登录

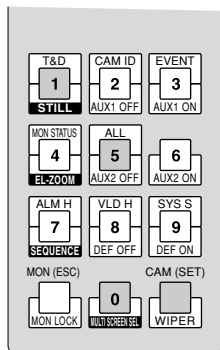
如果将自动登录设置为ON，将跳过此步骤。

1. 将系统中所有设备的电源开关接通。
OPERATE指示灯会点亮。
2. 将交流供电附件连接到交流电源上，可以接通系统控制器的电源。
LINK指示灯点亮并且系统控制器的发光二极管显示器上出现NO USER字样。

NO USER

3. 按数字按钮，然后按CAM(SET)键，注册操作员识别号码。
控制器的发光二极管显示器上出现下划线。
出厂初始设置为150。

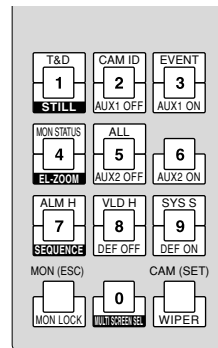
150



4. 按数字按钮然后按CAM(SET)按钮，可以选择注册密码(最多5位)。
出厂初始设置为150。
如果输入的识别号码和密码正确，发光二极管显示器上出现READY字样。

150

READY



注：如果输入的识别号码和密码发生错误，控制器上的PROHIBITED指示灯会闪动，并且NO ACCESS字样会在发光二极管显示器上出现大约3秒钟。然后NO USER字样会在发光二极管显示器上出现。回到步骤3重新选择操作员识别号码。

150

150

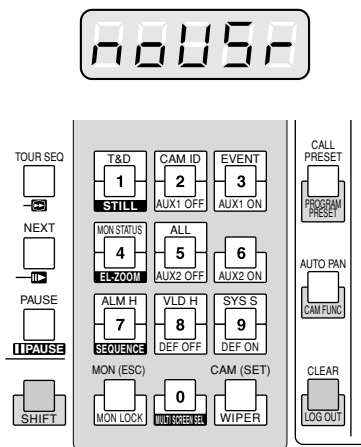
注：如果自动登录设置为ON，操作员能够自动登录进入系统。控制器的电源接通以后，AUTO字样会在发光二极管显示器上出现大约2秒钟，然后READY字样会自动出现。

■ 退出登录

如果将自动退出登录设置为ON，将跳过此步骤。

本功能在操作员离开控制器或者不再需要对系统进行操作时使用。

1. 按住SHIFT按钮的同时按CLEAR按钮可以从系统中退出登录。
控制器的发光二极管显示器上出现NO USER字样。



■ 自动登录

如果自动登录设置为ON，任何操作员都能够自动登录进入系统。控制器的电源接通以后，AUTO字样会在发光二极管显示器上出现大约2秒钟，然后READY字样会自动出现。
自动登录可以通过SX-150的管理控制台进行设置。



■ 自动退出登录

如果将自动退出登录设置为ON，在规定的时间内如果没有任何操作，任何操作员都会自动退出登录。
发光二极管显示器上自动出现NO USER字样。



自动退出和自动退出登录的时间可以通过SX-150的管理控制台进行设置。

注：

- 如果希望节省功率消耗，可以从控制器上取下PC插头，并且将交流电源附件从交流电源上拔下。
- 如果将自动退出登录设置为ON，在规定的时间内如果没有任何操作，任何操作员都会自动退出登录。发光二极管显示器上自动出现NO USER字样。
- 自动退出登录的时间可以通过SX-150的管理控制台进行设置。

附录

规格

<控制器>

电 源：	直流 9 V，400 mA(仅可使用附属的交流适配器)
数据输出/输入端口：	6芯模块插头(RS-485，全双工)×2
开关功能：	摄像机选择/监视器选择/现场回放序列转换/多屏幕画面改变/ 静止画面/电子变焦距/序列
控制器号码：	1至8(转动开关)
设备地址选择：	1至99(PS•Data)，1-16(WJ-FS616/616C)
监视器号码选择：	1至99(PS•Data)
摄像机号码选择：	1至199(PS•Data)
镜头功能：	光圈：开放/关闭/预置(仅直流控制镜头)
聚焦：	近/远/自动聚焦
变焦距：	广角/望远
摄像机外罩：	除霜：开/关 雨刷：开/关 辅助1：开/关 辅助2：开/关
摇动/俯仰：	手动摇动：右/左 手动俯仰：上/下 自动摇动，自动排序，自动序列，随机摇动，预置位置，起始位 置，摄像机巡视
其他摄像机控制：	摄像机设置 摄像机功能 报警(显示/挂起/再呼出/复位) 设置
系统操作：	-10℃至+50℃
操作环境温度：	低于90 %
操作环境湿度：	300(宽)mm×74(高)mm×177(厚)mm
尺 寸：	1.3公斤
重 量：	

<交流适配器>

输入	
电 源：	交流 100 V至240 V，50 Hz/60 Hz
耗电：	10 W
输出	
电 源：	直流 9 V
耗电：	1 A

尺寸和重量为约略值。
规格如有改变时，恕不另行通知。

标准配件

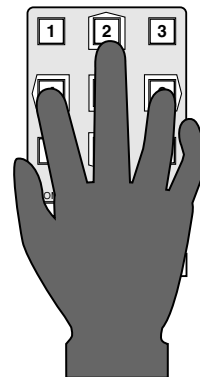
交流电源适配器	1个	WJ-FS616/616C用面板模板	1件
电源线(用于英国)	1条	系统850用面板模板	1件
电源线(用于英国以外)	1条	WJ-SX150用面板模板	1件
6芯模块电缆组件	1个		
支手板	1个		

完全复位

系统控制器WV-CU360CJ可以用方法完全复位为初始设置。

1. 从控制器上取下交流适配器的直流插头。
2. 同时按住数字按钮**2**，**4**，和**6**的时候插上直流插头。
3. 当所有的指示灯点亮后，完全复位完成。

注：在复位进程完成前保持直流插头插在控制器上。



Panasonic Corporation

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Importer's name and address to follow EU rules:

Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg F.R.Germany