Panasonic ideas for life





Matrix System 650 uses simple components to give you fully integrated control of up to 256 cameras and 32 monitors.

Matrix System 650 from Panasonic is the new, easier way to configure mid-sized to large surveillance systems. This remarkable new system makes it simple to fully integrate up to 256 cameras, 32 monitors, and 60 registered users.* Adding WJ-HD300A Series Digital Disk Recorders delivers the high image quality and high storage capacity that state-of-the-art surveillance requires.

Matrix System 650's simple, flexible architecture makes it ideal for a wide range of applications including

shopping malls, multipurpose complexes, office buildings and banks. *1 of the 60 users is reserved for recorder control.



Major Features and Functions

C a m e r a s • Supports up to 256 cameras (using 8 Video Input Boards).

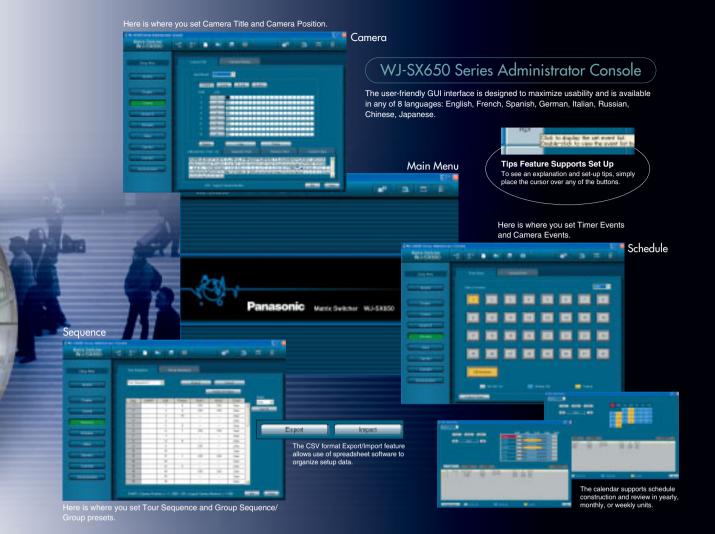
- All 256 channels are coaxial, multiplex cables, reducing the number of cables required and simplifying installation.
- Supports up to 256 RS-485, remote-controlled cameras.
- Pan, tilt and other lens motions can be controlled either by multiplex data over coaxial cable or RS-485 remote-control signals.
- Cables can be up to 900 m (3,000 feet) long (RG59/U coaxial cable, Belden 9259 or equivalent).

- S y s t e m The maximum size (256 camera x 32 monitor) system requires four WJ-SX650/SX650U units.
 - Set up is simple with the Video Input and Video Output Boards, each composed of a front-access Main Board and rear-access Rear Boards.
 - Front access for Main Board and Power Supply maintenance.
 - Rich array of sequence, alarm, and scheduling features meets every surveillance need.
 - Supports up to 1,024 alarm inputs (Terminal/Camera/Recorder/Serial/Video Loss) and up to 64 alarm outputs (and also 1,024 Serial Alarm Out).
 - Storage for up to 10,000 alarms, with alarm histories downloadable to PC to facilitate management.
 - The Set-up Menu and WJ-SX650 Series Administrator Console make set up easy.
 - Fine tune management of up to 60 users* with individual level and priority settings.

- Monitors Output support for up to 32 monitors (using 2 Video Output Boards).
 - Character displays show date, time, camera number, camera title and event information.
 - Set-up menus are available in seven languages: English, French, Spanish, German, Italian, Russian, and Japanese.
 - Alarm history display shows up to most recent 1,000 alarms.

- Recorders Supports connection of up to 16 WJ-HD300A Series recorders (using 2 Video Output Boards).
 - Use of WJ-HD300A Series network features allows remote surveillance from a PC.

- Controllers Supports simultaneous use of up to 16 WV-CU650 System Controllers + personal computer (PC).
 - Supports use of PS•Data (With DATA1 port set to PS•Data).



MATRIX SYSTEM650



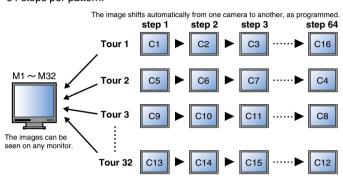
A Rich Array of Features for More Reliable and Efficient Surveillance

Three Sequencing Features for More Efficient Monitoring

These features allow you to determine the sequence in which you seem images from multiple cameras. System Controller buttons make monitoring more efficient by enabling instant selection of the pattern of your choice.

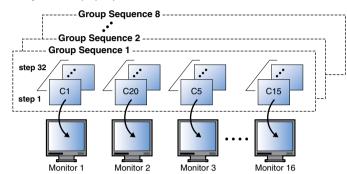
Tour Sequence

Automatically switches camera images in preset sequences on the monitor you select. You can preset up to 32 patterns with as many as 64 steps per pattern.



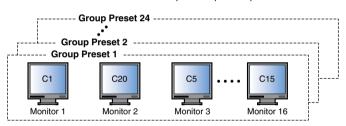
Group Sequence

Automatically switches camera images in preset sequences on up to 16 pre-selected monitors at once. You can preset up to 8 patterns with as many as 32 steps per pattern.



Group Preset

Allows instant spot display of selected camera images on up to 16 preselected monitors at once. You can preset up to 24 patterns.



Set switching interval and other parameters for each step

Setting	Content	Note
Camera Number*	001 - 999	Your choice for up to 256 cameras
Preset*	001 - 256	Preset positions for combination cameras
AUX. 1/2	ON/OFF	To operate buzzers or other external devices
Dwell Time**	0 - 30 sec.	Image switching interval

* Can also be set using pre-registered camera position numbers
** Not available for Group Preset since switching is occurs once.

Up to 1,024 Alarm Events Ensure That You Capture Vital Scenes

Preset camera positions, sequences and recording can be automatically activated by all types of alarm signals (Terminal, Camera, Recorder, Serial, Video Loss). Register up to 1,024 Alarm Events.

For example: Terminal Alarm Event No.256

	Biopiay inouc	Camera Number	Preset	monnoro	Source	Alami Gatpat
256	SPOT	100	1	5	10	50
Camera	Preset Position (Zoom in to Entr	n 1 rance 1)		WJ-SX650	Alarm Outpu	Buzzer/Light Records the image of Camera 10 (Recording follows the command alarm setting and event recording setting of recorder.) D300A PC

Alarm Schedule for up to 64 Alarms

Used to schedule pre-registered alarm events (ON/OFF, daily, weekly, monthly).

Four Display Modes

Alarm events can be displayed in Spot, Tour Sequence, Group Sequence or Group preset modes.

Three Alarm Modes (Spot Display Only)

Choose any of three ways to display multiple alarm event images in Spot display mode.

Sequence mode — Alarm event images displayed on monitor in the sequence in which they occurred.

Latest mode ——— Show latest alarm event image (Hold Last) **Earliest mode** ——Show earliest alarm event image (Hold First). (When alarms occur with Tour Sequence or Group Sequence/Group Preset set, earlier alarms are reset on that monitor.)

Log Up to 10,000 Alarms

Matrix System 650 can store up to 10,000 alarm events. Alarm histories can downloaded to a PC for analysis and management. The latest 1,000 alarm events can be viewed from a surveillance monitor.

Schedules for Simple, Certain Operation

Monitors and cameras can be automatically activated at preset dates and times using Daily, Weekly, and Monthly modes.

Timer Events

PROGRAM ACTIVE PERIOD DESIGNATION

Spot, Tour Sequence and Group Sequence/Group Preset features can be automatically activated on designated monitors, following preset schedules. Up to 128 timer events can be registered and assigned priorities.

scriedules.	υp ι	0 128 Cam	era e
Timer Event		Camera Event	
ACTION MONIT	OR	PRIORITY	Т
TOUR SEQ 1 ~ 3	2	1 ~ 99	t
GROUP SEQ 1 ~ 3	2	1 ~ 99	0
CAMERA CLEANING —		_	
(411 0414504)			ı

Camera Events

Designated cameras can be set for automatic tracking*, B/W switching and scene switching [PATROL(S)]*, and cleaning, following preset schedules. Up to 128 camera events can be registered.

* For WV-CS954 cameras only

			Timer	Event	Camera Event	
ACTIVE PERIOD DESIGNATION	TIME	SCHEDULE MODE	ACTION	MONITOR	PRIORITY	1
JUL.19.2005 ~ JUL.23.2005	9:00 ~ 16:00	DAILY	TOUR SEQ	1 ~ 32	1 ~ 99	t
Always Active	10:00 ~ 17:00	WEEKLY (SUN)	GROUP SEQ	1 ~ 32	1 ~ 99	(
JAN.1.2005 ~ DEC.1.2005	22:00 ~ 01:00	MONTHLY (1)	CAMERA CLEANING	_	_	
			(ALL CAMERA)			
DEC.1.2005 ~ DEC.23.2005	12:00 ~ 17:00	MONTHLY (1)	GROUP PRESET	1 ~ 32	1 ~ 99	

he Camera You Need Take Full Advantage **Camera Events**

> Super Dynamic III Color Dome Camera **WV-CS954**



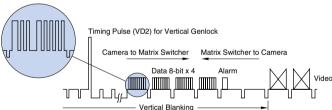
All 256 channels with multiplex data over coaxial cable

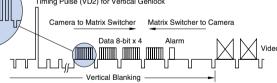
To simplify installation and for smoother system expansion, video signals, control data, synchronous signals (VD2) and alarm signals are all transmitted over the same coaxial cable. Cables can be up to 900 m (3,000 feet) long (RG59/U coaxial cable, Belden 9259 or equivalent).

VD2 Compatible Panasonic Camera List

B/W Camera	WV-BP330 Series
Color Camera	WV-CW484 Series, WV-CW244 Series,
	WV-CF324, WV-CF284/294 Series,
	WV-CP480 Series, WV-CW384, WV-CL930 Series,
	WV-CP254H, WV-CP280 Series
Integrated Dome Camera	WV-CS954, WV-CW964/974, WV-CS574

Since 1988, most of Panasonic cameras have been designed and manufactured to accept VD2 signal for system integration





High image quality and high capacity storage

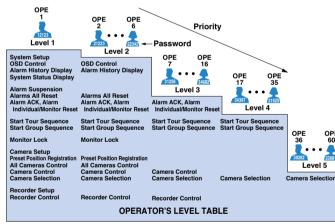
When connected to the Panasonic WJ-HD300A Series Digital Disk Recorder, Matrix System 650 can be used to construct surveillance systems that offer both high image quality and high capacity image storage. WJ-HD300A Series Digital Disk Recorders can be operated seamlessly from Matrix System 650's WV-CU650 System Controller, to support multi-screen live monitoring and high-speed Filtered Search. These digital disk recorders' networking features also allow remote control from a PC.



Preventing unauthorized access

Up to 60 users* can be registered with individual user IDs and passwords. Security can be fine-tuned with individual level, priority and camera/recorder display and operation restrictions. to guard against unauthorized access and unauthorized changes in settings. * 1 of the 60 users is reserved for recorder contro

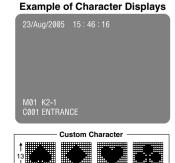
Operator Registration



Rich array of display options

Use of a newly developed LSI allows you to choose from any of seven languages (English, French, Spanish, German,

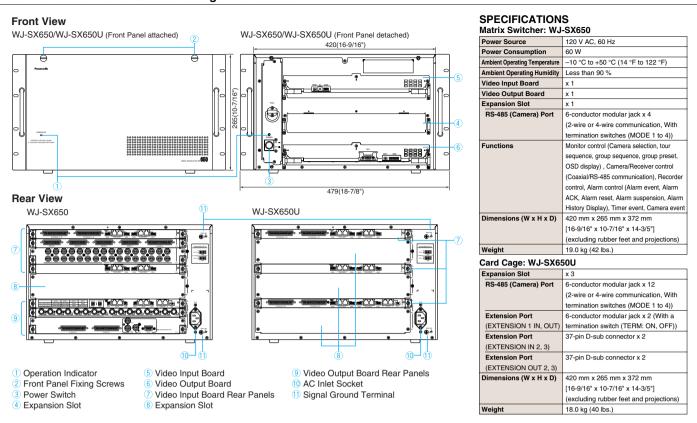
Italian, Russian, or Japanese) when setting up a system. When monitoring date and time, camera title, monitor status, and event information can all be displayed. Camera titles can include roman alphabet, special alphabet (German or Russian), numbers, symbols, and Chinese and Japanese characters (approx. 1,000)



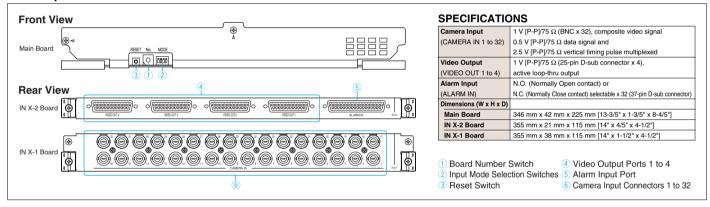
You can create up to 32 your custom characters

PRODUCT CONFIGURATION

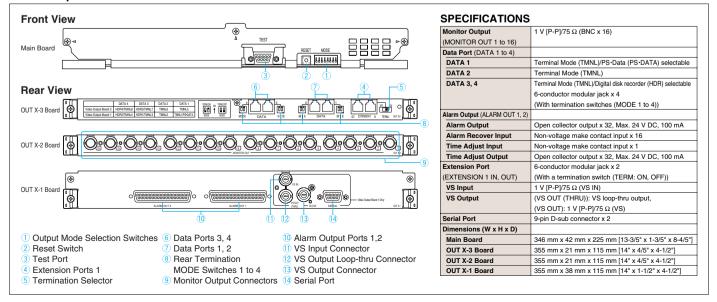
Matrix Switcher: WJ-SX650 / Card Cage: WJ-SX650U

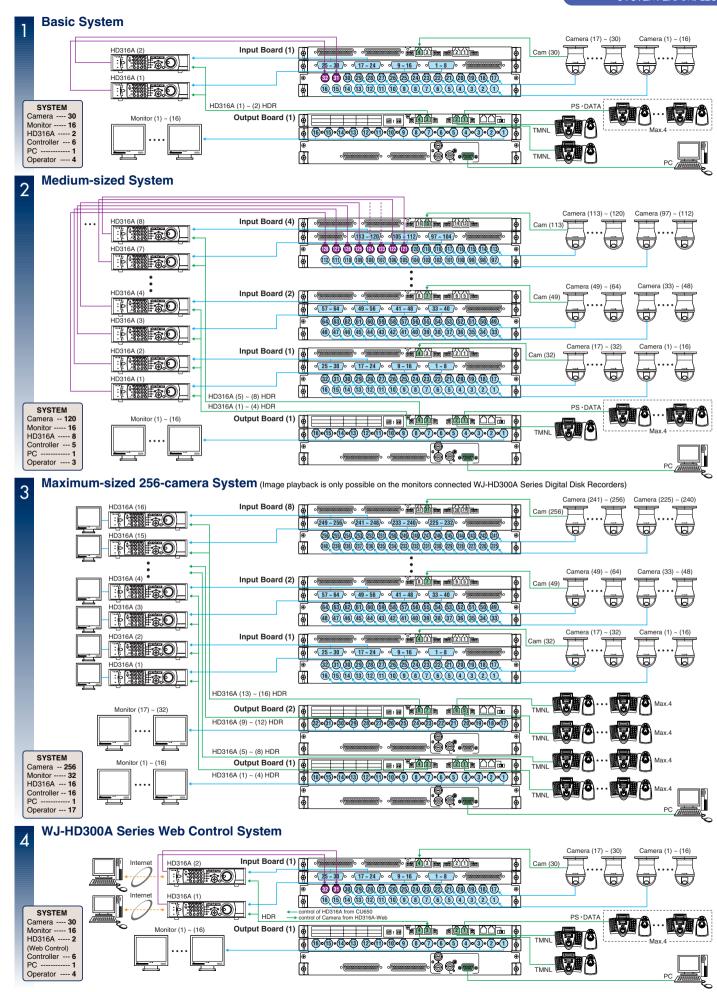


Video Input Board: WJ-PB65C32



Video Output Board: WJ-PB65M16





VIDEO INPUT/OUTPUT BOARD COMBINATION



ype i		
Input Board (1)		
Not used		
Output Board (1)		

32 In x 16 Out

Input Board (1) Output Board (2) Output Board (1) 32 In x 32 Out

Input Board (2) Input Board (1) Output Board (1)

64 In x 16 Out



64 In x 32 Out



Input Board (1) Output Board (1) 96 In x 16 Out

Not used Input Board (3) Input Board (2) Input Board (1) Output Board (2)

Type 6

Output Board (1) 96 In x 32 Out



Output Board (1) 128 In x 16 Out



128 In x 32 Out

	Not used
	Not used
	Input Board (8)
H	
	Input Board (7)
	Input Board (6)
	Input Board (5)
\vdash	
	Input Board (4)
	Input Board (3)
	Input Board (2)
н	
	Input Board (1)
ш	Output Board (2)

Type 16

Type 9 Input Board (5) Input Board (4) Input Board (3) Input Board (2) Input Board (1) Output Board (1)

160 In x 16 Out

Expansion Cable Kit

WJ-CA65L20K (2m : 6.6ft)

WJ-CA65L07K (0.7m: 2.3ft)

Type 10 Not used Not used Input Board (5) Input Board (4) Input Board (3) Input Board (2)

Input Board (1) Output Board (2) Output Board (1)

160 In x 32 Out

Type 11 Not used Not used Input Board (6) Input Board (5) Input Board (4)

Input Board (3) Input Board (2) Input Board (1) Output Board (1)

192 In x 16 Out

Type 12 Not used Input Board (6) Input Board (5) Input Board (4) Input Board (3) Input Board (2)

192 In x 32 Out

Type 13

Input Board (1) Output Board (2) Output Board (1)

Type 14

Not used Input Board (7) Input Board (6)

Input Board (5) Input Board (4) Input Board (3)

Input Board (2) Input Board (1) Output Board (1)

224 In x 16 Out

Input Board (7) Input Board (6) Input Board (5)

Input Board (4) Input Board (3) Input Board (2)

Input Board (1) Output Board (2) Output Board (1)

224 In x 32 Out

Type 15

Input Board (8) Input Board (7) Input Board (6)

Input Board (5) Input Board (4) Input Board (3)

Input Board (2) Input Board (1) Output Board (1)

256 In x 16 Out

Output Board (1)

256 In x 32 Out

MATRIX SYSTEM650 PRODUCT COMPONENTS

Matrix Switcher **WJ-SX650**

Card Cage WJ-SX650U





Video Input Board WJ-PB65C32









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