



# WJ-GXD400

**MPEG-4/JPEG Multi Channel High Definition Video Decoder**

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# WJ-GXD400 Overview

## MPEG-4/JPEG Multi Channel High Definition Video Decoder for Mega pixel i-Pro Network Surveillance System



- ◆ High definition image with i-Pro Megapixel camera and HD display
- ◆ HDMI interface supporting 1920x1080 display resolution
- ◆ MPEG4/JPEG Multi-format decoding
- ◆ Multiscreen capability
  - 1x 4VGA(1280x960) with 2x VGA(640x480)
  - 6x VGA(640x480)
- ◆ Full frame decoding, low latency
- ◆ 30 or 25 frames/sec. (NTSC/PAL) for each VGA area
- ◆ Up to 256 cameras can be registered and displayed in multiscreen sequence.
- ◆ Timer schedule for customized viewing mode
- ◆ Gigabit Ethernet IF for high throughput
- ◆ Superior reliability and lower power consumption with an embedded OS.

# Megapixel image

**Megapixel images can be decoded and displayed on a high definition display, allowing precise identification.**

Megapixel 4VGA image with i-Pro Megapixel cameras

*i-Pro*

Conventional



Characters are readable

The person can be identified

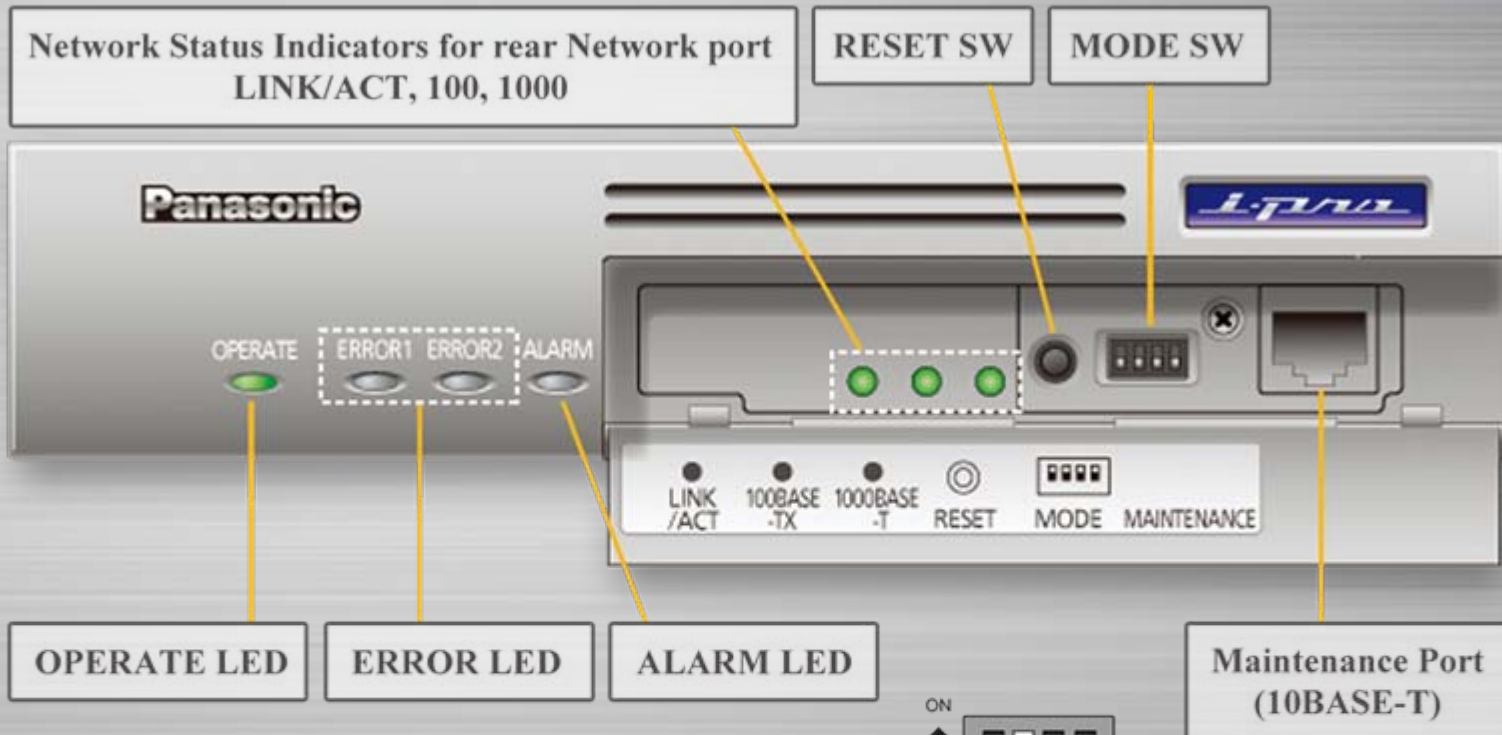


Superior color reproduction

Finer details



# WJ-GXD400 Overview



OPERATE LED

ERROR LED

ALARM LED

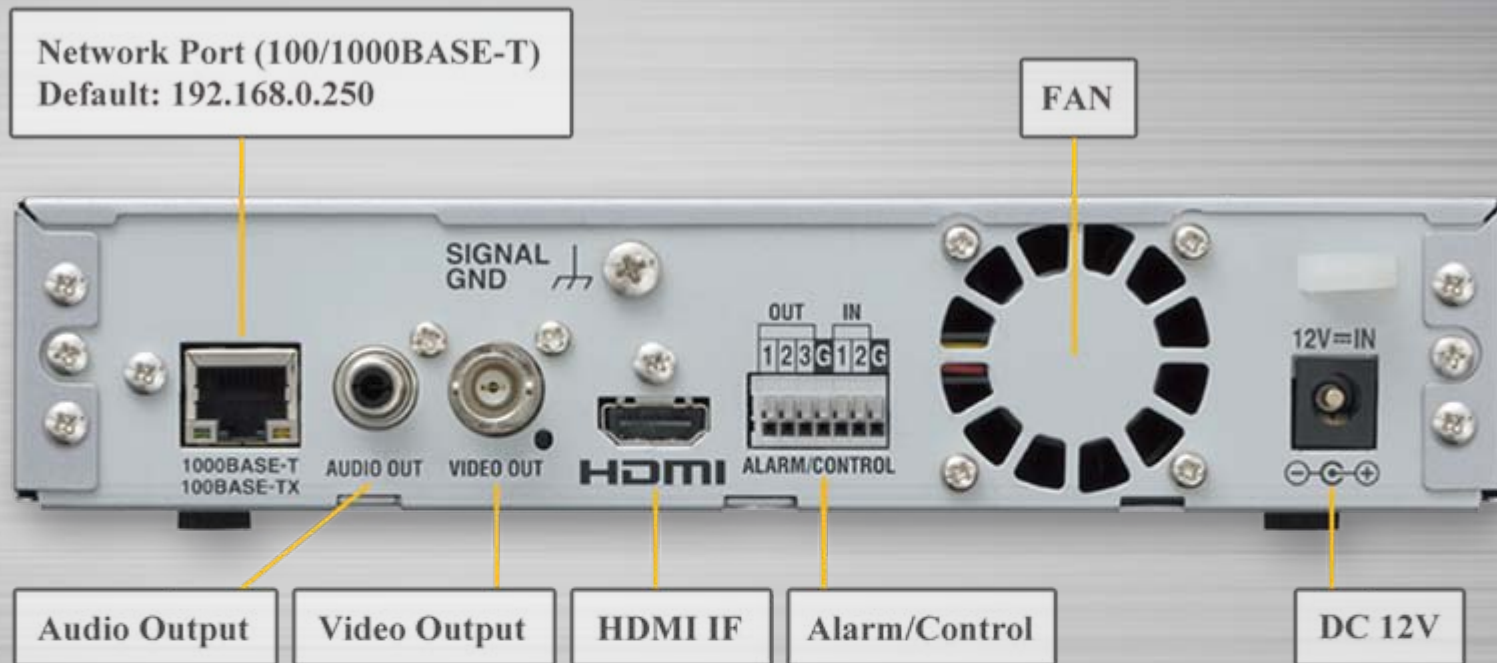


ERROR1 (RED)	- NW Link Error
ERROR2 (ORANGE)	- Thermal Error - Fan Error - NW Camera Error

MODE SW

	1	2	3	4
ON	Initialize	N/W Config. Initialize	Safe mode	-
OFF	Normal	Normal	Normal	Normal

# WJ-GXD400 Overview



## Terminal OUT

1	ERROR OUTPUT
2	ALARM OUTPUT
3	N/A

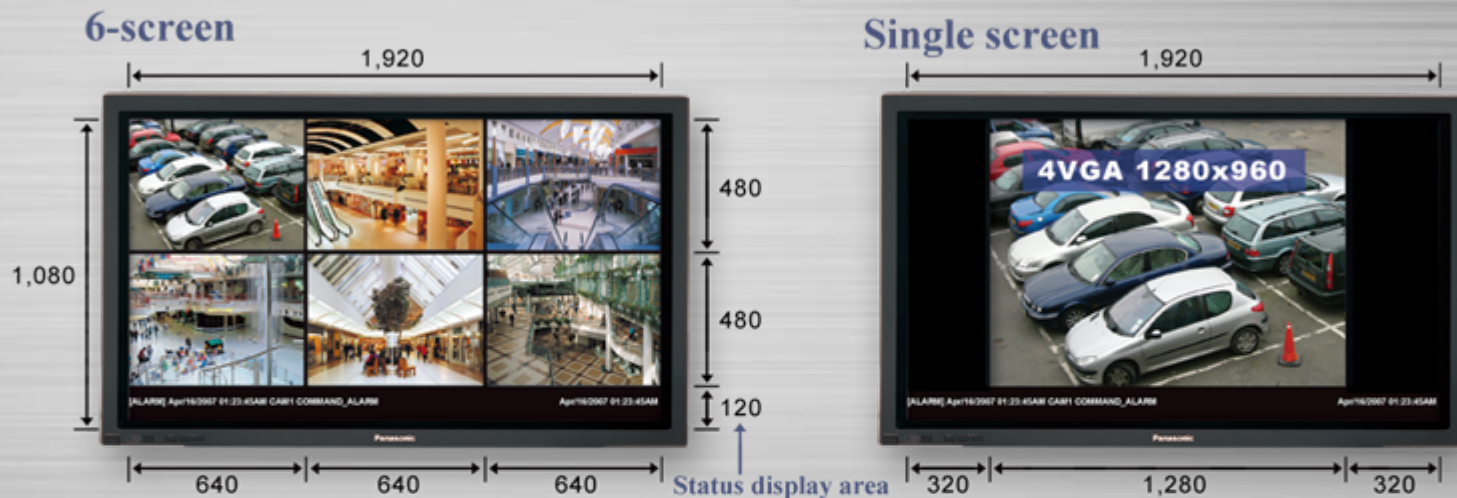
## Terminal IN

1	ALARM RESET INPUT
2	N/A

# Display Mode

**4VGA megapixel image and VGA images can flexibly be organized by the user.**

Four screen modes are available.



**3-screen (primary screen on the left)**



**3-screen (primary screen on the right)**



Start up screen can be chosen from the four screen modes.



# Group preset

**Registered cameras can be freely assigned into any area of the multiscreen with preset positions to form a group.**

Groups can be displayed using group sequence mode or timer schedule. Up to 64 groups are available.

**Group1**



**Group2**



**Group3**



**Group4**



C: Camera No.  
P: Preset position

Note: Groups can also be selected by CGI command.

Future plan: Groups can be selected by using the i-Pro matrix management software

# Group sequence

## Multiple group presets can form a group sequence.

Group sequence is activated by the timer schedule.

Up to 10 group sequences each with a maximum of 64 steps are available.



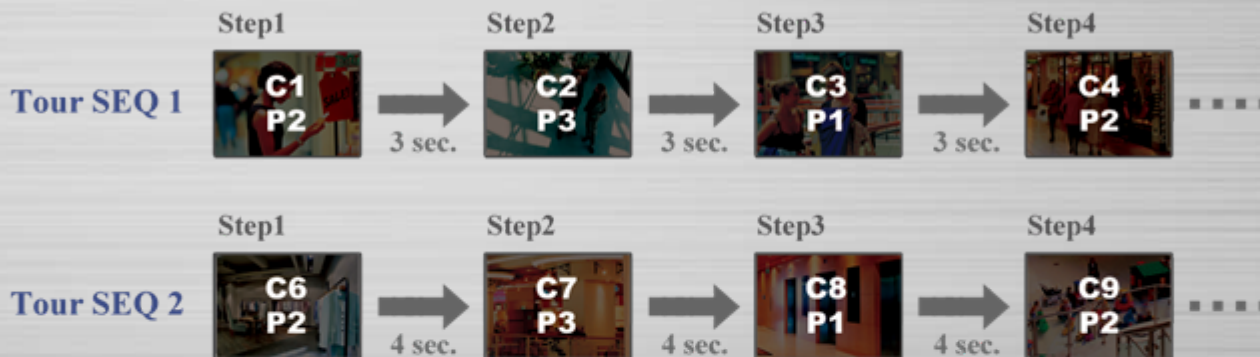
Note: The multiscreen layout must be the same for each group preset in a group sequence  
Camera preset position is not activated in group sequence.



# Tour sequence

**A tour sequence including cameras and preset positions can be assigned on any of the multiscreen area and activated by the timer schedule .**

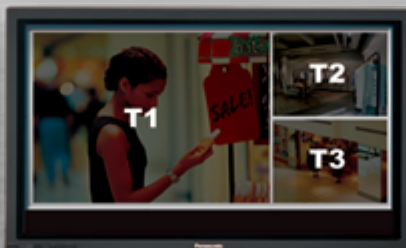
Up to 10 tour sequences each with 64 steps are available.



Multiscreen pattern 1 for timer schedule



Multiscreen pattern 2 for timer schedule



T: Tour SEQ  
C: Camera spot  
P: Preset position

Note: Dwell time cannot be changed in a tour sequence.

# Timer schedule

## Pre-programmed display patterns can be activated by the timer schedule.

Up to 6 schedules with 4 programmable display patterns are available.

**Schedule:** Day, Start/End time and display pattern are programmable.

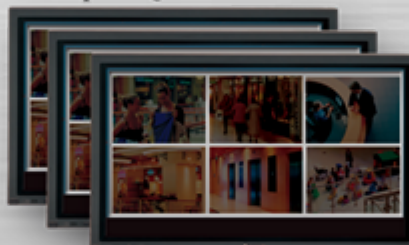
Schedule 1 ■ (White)	Display pattern --														
Time range	<table><tr><td><input type="checkbox"/> Mon</td><td><input type="checkbox"/> Tue</td><td><input type="checkbox"/> Wed</td><td><input type="checkbox"/> Thu</td><td><input type="checkbox"/> Fri</td><td><input type="checkbox"/> Sat</td><td><input type="checkbox"/> Sun</td></tr><tr><td><input type="checkbox"/> 24h</td><td>00</td><td>:00</td><td>:00</td><td>:00</td><td>:00</td><td>:00</td></tr></table>	<input type="checkbox"/> Mon	<input type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat	<input type="checkbox"/> Sun	<input type="checkbox"/> 24h	00	:00	:00	:00	:00	:00
<input type="checkbox"/> Mon	<input type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat	<input type="checkbox"/> Sun									
<input type="checkbox"/> 24h	00	:00	:00	:00	:00	:00									

**Display pattern:** Up to 4 patterns choose from followings are available.

Group1-64



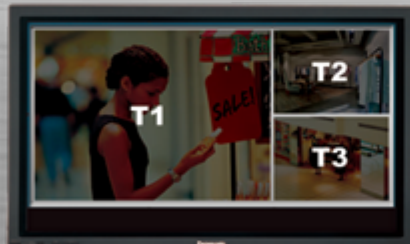
Group SEQ 1-10



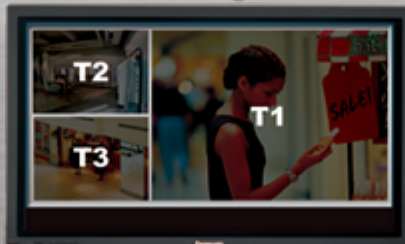
6-screen with Tour



3-screen 4VGA left with Tour



3-screen 4VGA right with Tour



Tour SEQ 1-10 and Camera spot with preset position are assignable for each area.

# Trimming Mode

**When used with an overscan display, each image is trimmed to fit in the display area.**

**Fringe of the image cannot be seen on an over scan display**



Optimized for overscan monitor



Each VGA image is trimmed from 640 to 608 (5%)



Trimmed from  
1080 to 1026  
(5% trimmed)

Trimmed from  
120 to 66  
(45% trimmed)

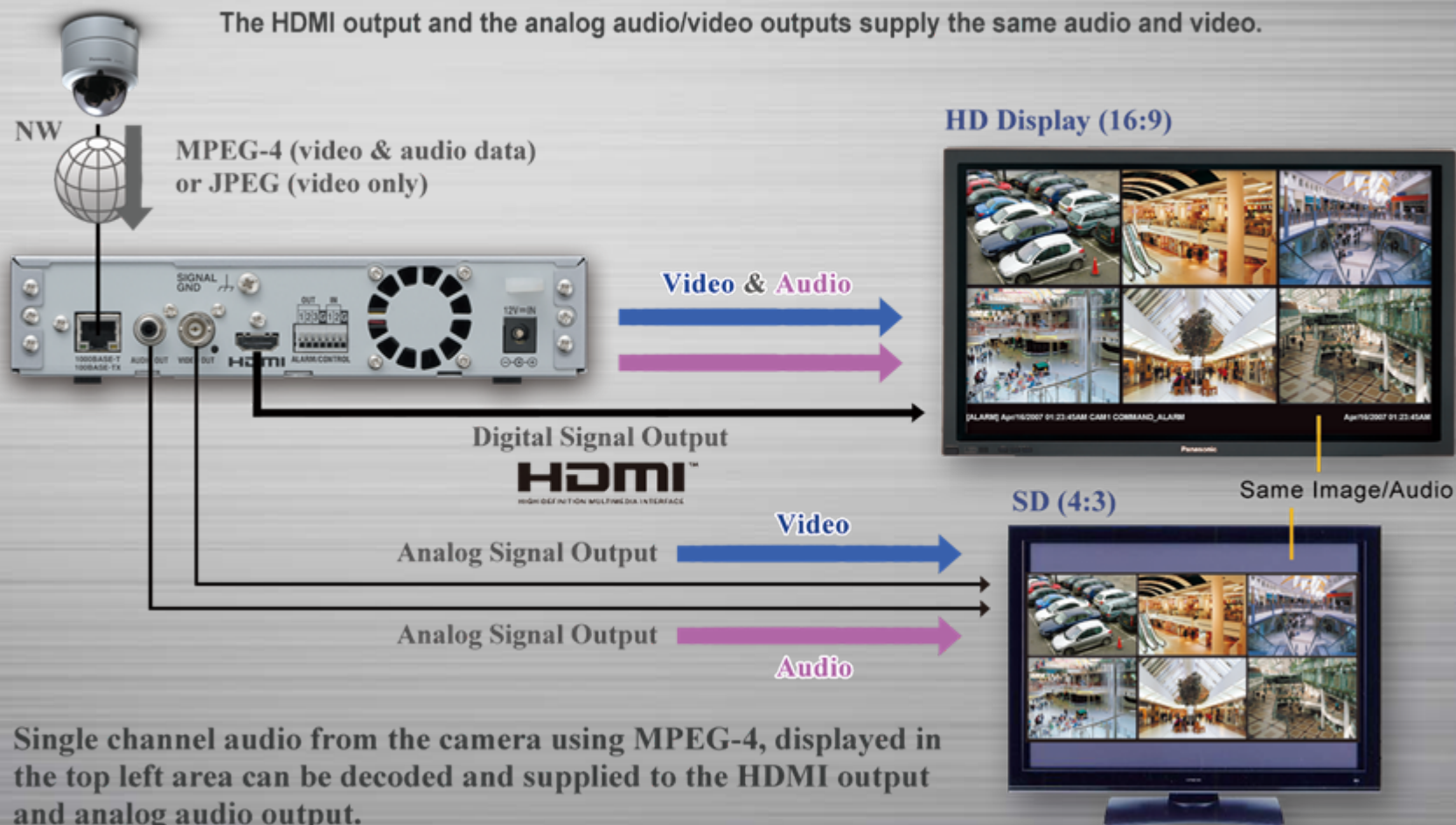
Trimmed from 1920 to 1824 (5%)



# Audio/Video output

**Equipped with an HDMI IF including Audio and Video, and analog Audio/Video outputs.**

The HDMI output and the analog audio/video outputs supply the same audio and video.



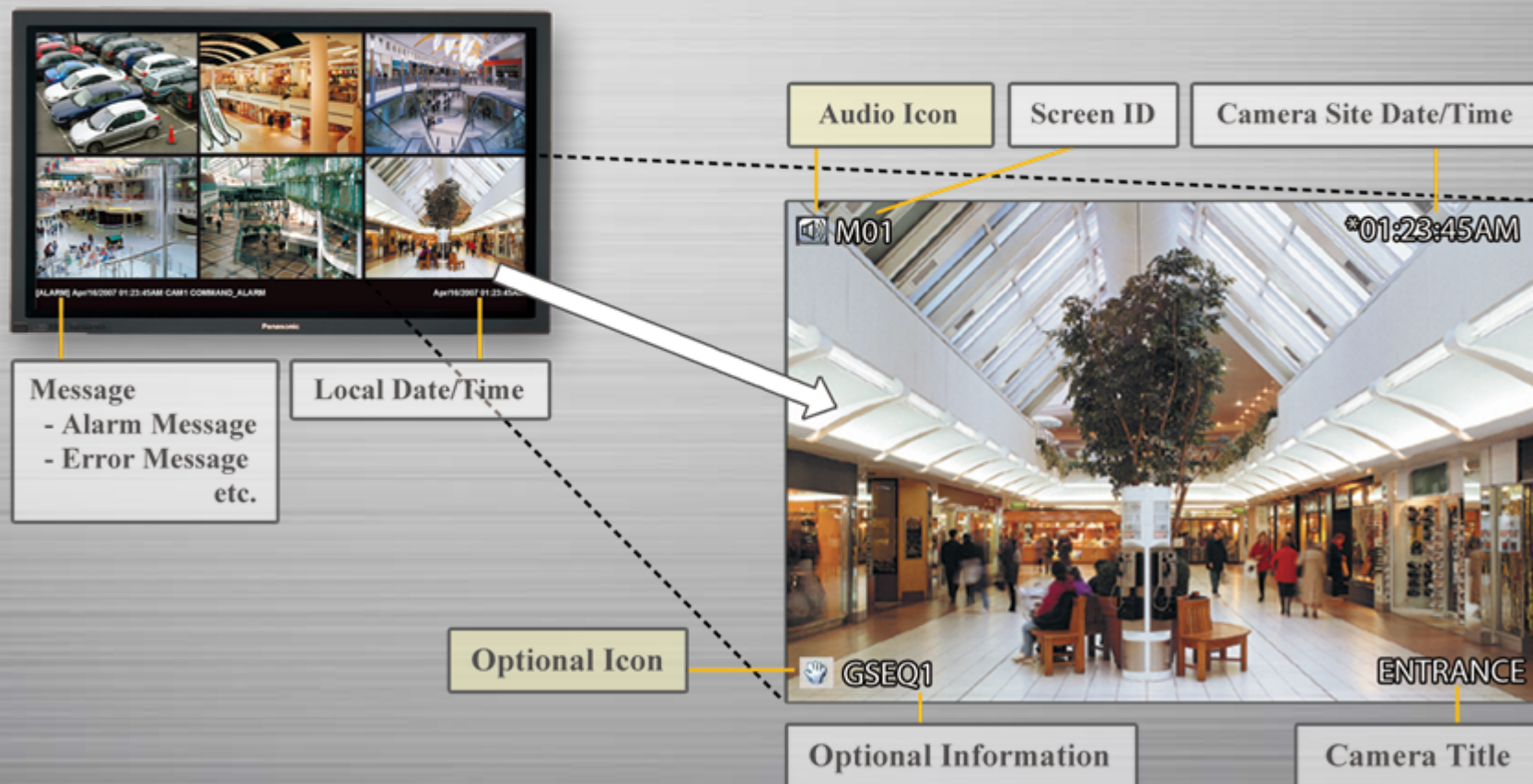
Single channel audio from the camera using MPEG-4, displayed in the top left area can be decoded and supplied to the HDMI output and analog audio output.

Note: Audio is not available with the camera using JPEG mode

# On Screen Display

**Various OSD including Camera title, Camera site time/date, Local time/date, Screen ID and status display is available.**

Display position and ON/OFF of each OSD can be set by the setup menu.



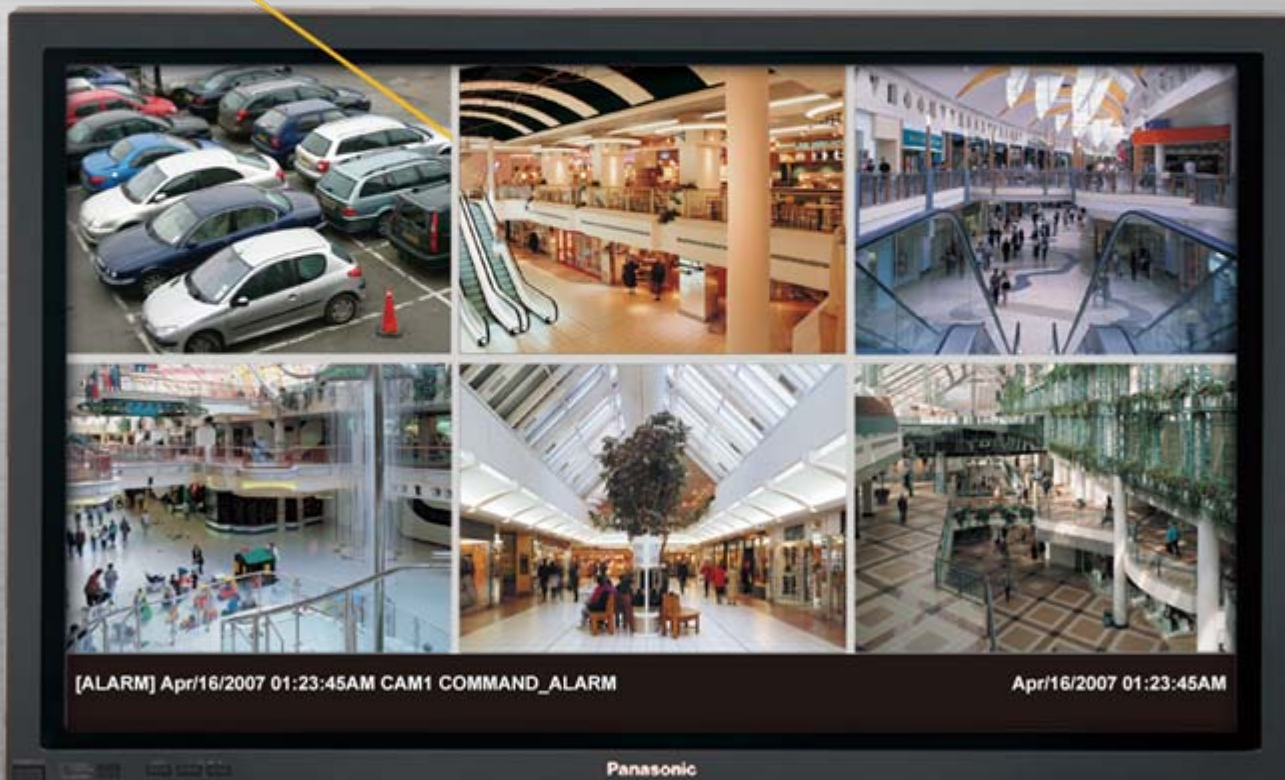
Note: Icon displays are controlled by CGI Command only.



# Display Border Line

**Four options are available for the border line color  
: Off, White, Gray, Black.**

Border line.





# Alarm actions

## Three alarm actions are available.

1. The cameras that are in the alarm status are displayed with red frames, and the OSD “ALARM” messages.
2. Alarm terminal output
3. Alarm LED on the front panel

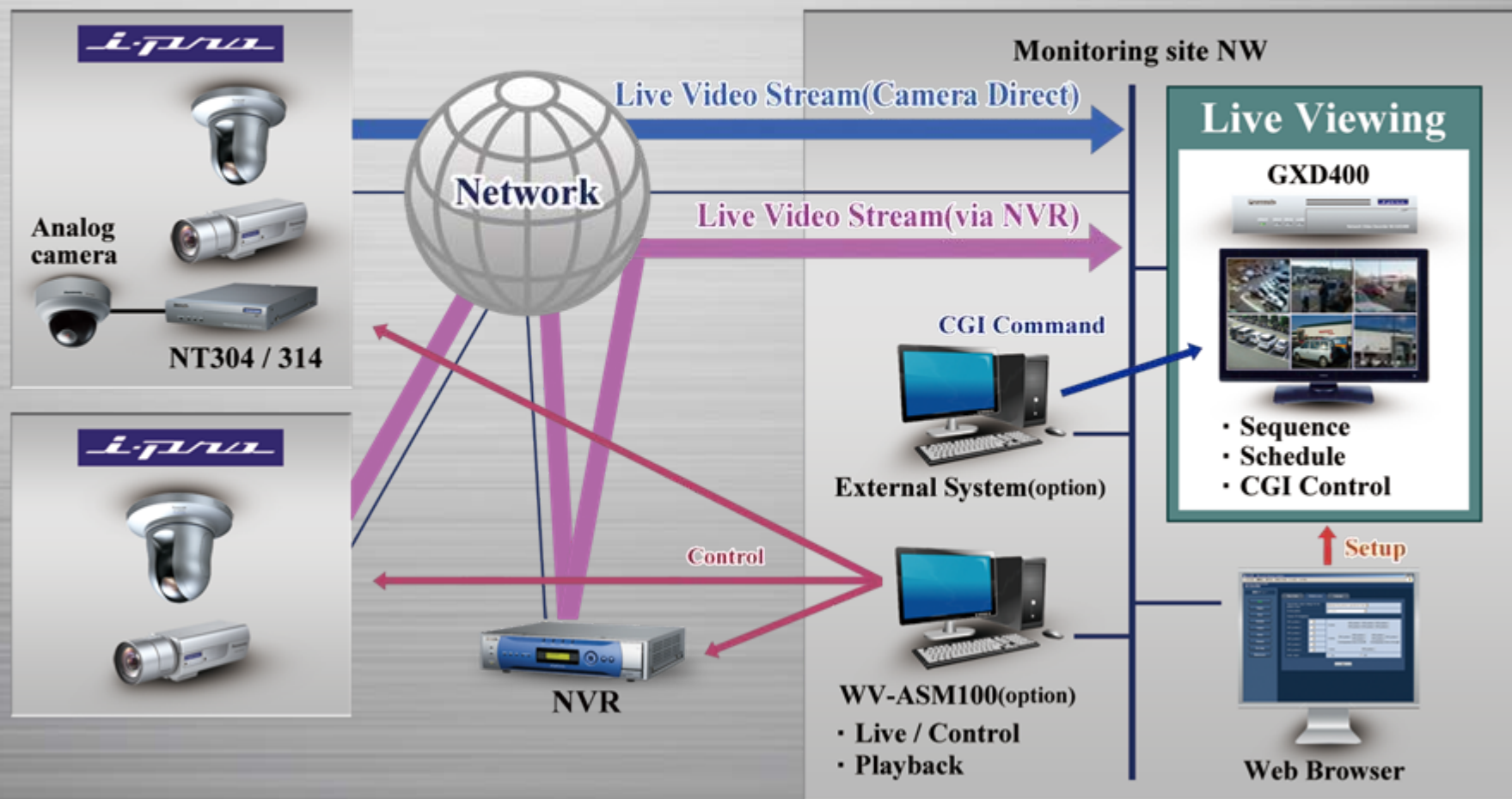
Alarm reset can be made by the timer reset, reset terminal or CGI command.



# System connection

## WJ-GXD400 supports both Camera Direct stream and the video stream via NVR

"via NVR" mode allows wider camera models and frame rate control depending on the number of client accesses.



# System connection

## Professional operation capability exceeding analog matrix switcher made possible with the Matrix management server.

Camera select, Monitor (area) select, Sequence control, Playback control can be made from the matrix client with CU950.

