Panasonic ideas for life





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



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 1,200 m long (5C-2V coaxial cable).

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).

METRIX SYSTEM650



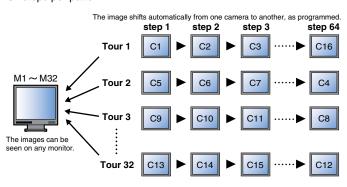
A Rich Array of Features for More Reliable and Efficient Surveillance

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.

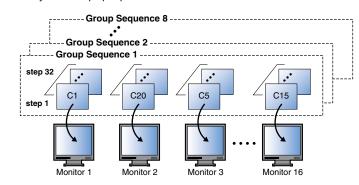
Tour Sequence

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.



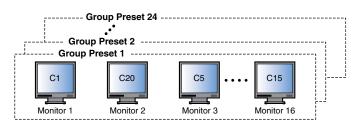
Group Sequence

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 pre-selected monitors at once. You can preset up to 24 patterns.



Your choice for up to 256 cameras	
'	
Procet positions for combination comores	
Preset* 001 - 256 Preset positions for combination cameras	
To operate buzzers or other external devices	
. Image switching interval	

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

No.	Display Mode	SPOI		Monitors	Recording	Alarm Output	
140.	Display Wode	Camera Number	Preset	Worldon	Source	Alaim Output	
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.

— 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

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.

Timer Event Camera Even						
PROGRAM	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
2	Always Active	10:00 ~ 17:00	WEEKLY (SUN)	GROUP SEQ	1 ~ 32	1 ~ 99
3	JAN.1.2005 ~ DEC.1.2005	22:00 ~ 01:00	MONTHLY (1)	CAMERA CLEANING	_	_
				(ALL CAMERA)		
÷						
128	DEC.1.2005 ~ DEC.23.2005	12:00 ~ 17:00	MONTHLY (1)	GROUP PRESET	1 ~ 32	1 ~ 99

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-CS950 camera series only

The Camera You Need to Take Full Advantage of Camera Events SDIII

Super Dynamic III

WV-CS950 Series

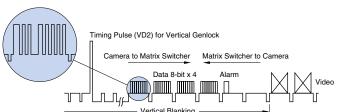
All 256 Channels with Multiplex Data Over Coaxial Cabl

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 1,200 m long (5C-2V coaxial cable).

VD2 Compatible Panasonic Camera List

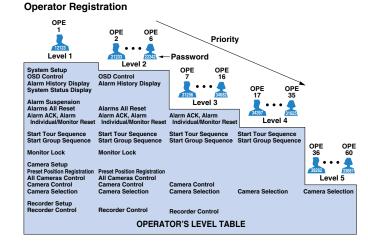
B/W Camera	WV-BP330 Series	
Colour Camera	WV-CW480 Series, WV-CW240 Series, WV-CF324,	
	WV-CF284/294 Series, WV-CP480 Series,	
	WV-CW380 Series, WV-CL930 Series,	
	WV-CP250 Series, WV-CP280 Series	
Integrated Dome Camera	WV-CS950 Series, WV-CW960/970 Series,	
	WV-CS570 Series	

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



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



High Image Quality and High Capacity Storage

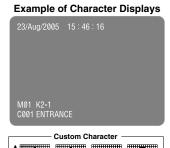
When connected to the Panasonic WJ-HD300A Series Digital Disk Recorder, Matrix System 650 can be used to construct surveillance systems that offer both high image quality and high capacity image storage. WJ-HD300A Series Digital Disk Recorders can be operated seamlessly from Matrix System 650's WV-CU650 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.



Rich Array of Display Options

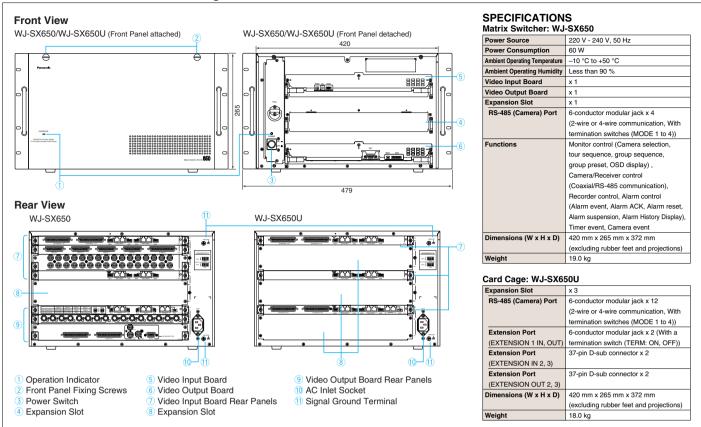
Use of a newly developed LSI allows you to choose from any of seven languages (English, French, Spanish, German,

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).

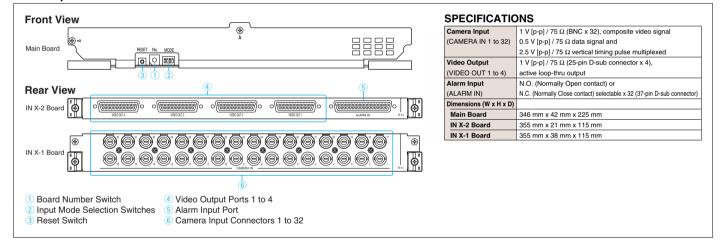


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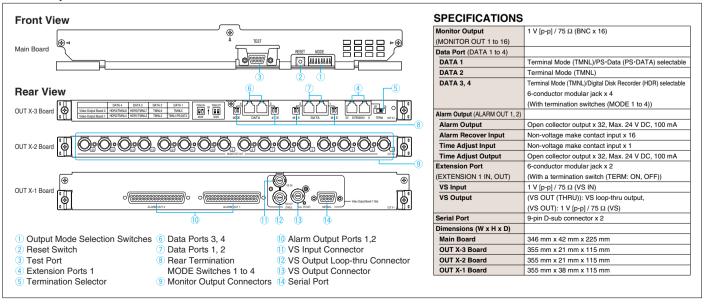
Matrix Switcher: WJ-SX650 / Card Cage: WJ-SX650U

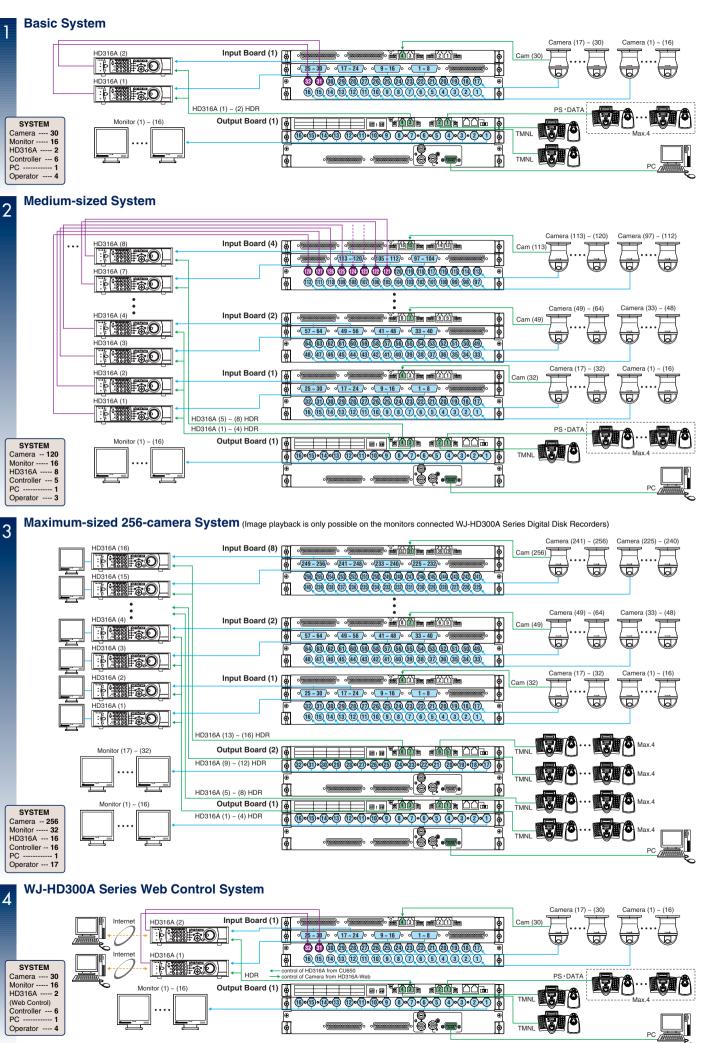


Video Input Board: WJ-PB65C32



Video Output Board: WJ-PB65M16





VIDEO INPUT/OUTPUT BOARD COMBINATION



Type 1

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

32 In x 16 Out

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

32 In x 32 Out

Not used

Not used

Type 10

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

64 In x 16 Out

Not used

Not used



64 In x 32 Out



96 In x 16 Out



Output Board (1) 96 In x 32 Out



Output Board (1) 128 In x 16 Out



128 In x 32 Out

Туре	9

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

Input Board (2) Input Board (1)

160 In x 16 Out

Output Board (1)

Input Board (6)

Type 11

Input Board (5) Input Board (4) Input Board (5) Input Board (3) Input Board (4) Input Board (2) Input Board (3)

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

160 In x 32 Out 192 In x 16 Out Type 12

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

Input Board (1) Output Board (2)

Output Board (1) 192 In x 32 Out

Type 13

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

Input Board (3) Input Board (2)

224 In x 16 Out

Type 14

Input Board (4) Input Board (3) Input Board (2) Input Board (1)

Input Board (5)

Output Board (1)

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

Type 16

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

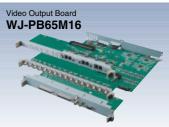
256 In x 32 Out

MATRIX SYSTEM650 PRODUCT COMPONENTS

















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