# Panasonic ideas for life



# Matrix System 650EX. Enhancing Large-System Surveillance.

Up to 512 cameras and 64 monitors, plus up to 64-domain Satellite capability

The new Panasonic Matrix System650EX redefines "advanced" in large-system surveillance. This new EXpanded edition of the world-renowned System650 adds the new WJ-MPU955A Main CPU, for flexible, fully integrated control of up to 512 cameras and 64 monitors. Plus, our new WJ-ASC960 software upgrade makes the configuration of systems with up to 64 Satellite domains possible. For anyone needing to construct large scale systems to suit a wider range of applications such as casinos, airports, transport terminals, banks, shopping complexes, prisons, or other government facilities, the smarter answer is clear. Matrix System650EX

# Key Features of The Expanded System

# **Basic Features**

- Up to 512 inputs and 64 outputs.
- All inputs support multiplexed video, control data and VD2 sync over the coaxial cable, and cable company. the coaxial cable, and cable compensation up to 900 m (3,000 feet).
- Up to 512 RS-485 remote controlled cameras.
- Supports simultaneous use of 64 controllers including the WV-CU950 System Controllers and Personal Computers using ActiveX control interface.



# Alarm Functions

- Up to 1,024 alarm programs and various alarm interfaces including 1,024 terminal inputs, 256 terminal outputs, 512 camera alarms, 512 Video loss alarms and 1,024 serial alarm inputs (Total of terminal inputs and outputs is 1,024).
- Up to ten actions including Camera spot, Tour Sequence, Group Sequence and Text for each alarm event. Each action can be assigned to one of the 16 targets, which includes up to 64 monitors.
- Alarms can be scheduled by programming the timer event function.
- Alarm priority control enables effective management for alarms, timer events and operators.

# **General Functions**

- Three sequencing features: Tour Sequence; 128 patterns, 64 steps, Group Preset; 128 patterns, 64 monitors, Group Sequence; 128 patterns, 64 steps.
- Up to 1,024 Timer events including Camera Spot, Tour Sequence, Group Preset, Group Sequence, Alarm and Mode change.
- Full camera control including 255 preset position call, Menu setup, Color/Black & White Change, Wiper, Defroster and 256 function codes (depending on the camera model). Preset positions can easily be programmed by the system controller.
- Up to 512 operators with individual level and priority settings, and flexible system partitioning.
- Up to 32 recorders (WJ-HD316/309A, WJ-RT416) can be connected.
- \* Connection with WJ-RT416 is a plan for future.
- Cameras, matrix and recorders can be controlled seamlessly from the system controller.
- It will support a redundant CPU system without need of WJ-MPS850 CPU management switch unit, enabling lower cost.
- Front access for Main Board and Power Supply maintenance.

### **OSD Service**

- Alarm Status, Alarm History (100 events), Video Loss Status, Video Loss History (100 events) and System Status can be viewed on a monitor.
- Time & Date Displays can be switched on and off from the system controller.

# Key Features of The Satellite System

• Multiple System650EX systems with WJ-MPU955A central processing unit upgraded by WJ-ASC960,

· · · Up to 64 domains

• Up to of 64 domains.

• Up to 1,024 video links across the domains.

can be linked by video link and Network.

• Up to 512 global operators (total of global and local operators) and 1,024 global alarms.

• Four global operator classes by combination of Global camera lock and Global camera lock override privileges.

• System650EX, System850 and GX matrix system can be incorporated to make a hybrid satellite system.

• Integrated Global and Local administration software makes setup easy.

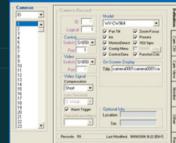
# Matrix System650EX Administration Software

The standard software for basic (up to 512 x 64) system.

Cameras Setup Menu

Control via IP Network

Main Menu



Recorders Setup Menu



Alarm Targets Setup Menu

Event Scheduler Setup Menu





# WJ-ASC960 Upgrade Software for Satellite Configuration

This optional software upgrade allows configuration of systems with up to 64 Satellite domains.

Video Link Setup Menu





MATRIX SYSTEM650EX

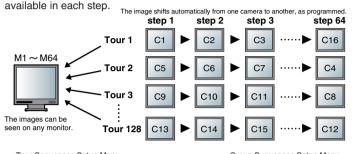
# A Rich Array of Features for More Reliable and Efficient Surveillance

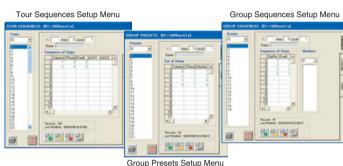
# Three Sequencing Features for More Efficient Monitoring

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**

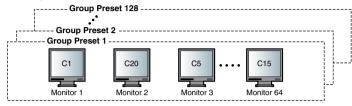
Automatically switches camera images sequentially on the selected monitor. Up to 128 patterns can be programmed with as many as 64 steps per pattern. Camera preset position (1 ~ 255) and AUX output (1. 2) can also be controlled and up to 86,339 seconds dwell time is





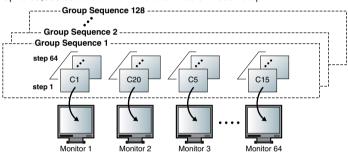
# **Group Preset**

Allows instant spot display of selected camera with preset position (1 ~ 255) on up to 64 pre-selected monitors at once. Up to 128 patterns can be programmed



# **Group Sequence**

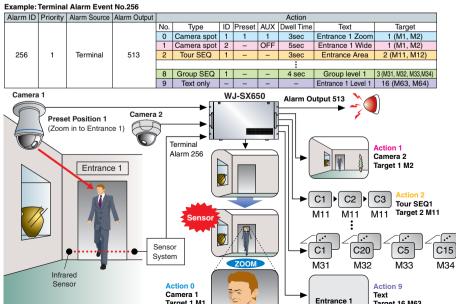
Automatically switches Group preset patterns sequentially. Up to 128 patterns can be programmed with as many as 64 steps per pattern. Up to 86,339 seconds dwell time is available in each step.



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

The Matrix System650EX supports flexible alarm handling, up to 1,024 alarm programs and various alarm interfaces including 1,024 terminal inputs, 256 terminal outputs, 512 camera alarms, 512 Video loss alarms and 1,024 serial alarm inputs (Total of terminal inputs and outputs is 1,024). An alarm program can activate up to 10 actions including camera spot, Tour Sequence, Group Sequence and Text. Each action can be assigned to one of the 16 targets, which includes up to 64 monitors, so that the multiple actions can effectively be displayed across the alarm target monitors.

An alarm terminal output can be triggered when an alarm is activated, acknowledged or reset.

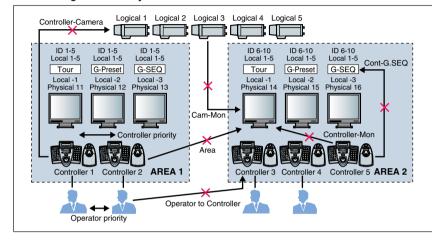


- Alarms can be scheduled by programming the timer event function.
- Alarm priority control enables effective management for alarms, timer events and operators.
- Up to 1,024 Alarm Program status, up to 100 events of Alarm History and up to 100 events of Video-loss History can be viewed on a monitor.
- Up to 30 days of Alarm logs can be stored in the main CPU unit.
- Alarms can be suspended individually by Arm/Disarm button from the system controller.
- Hold mode displays first alarm while sequence mode displays multiple alarms sequentially when multiple alarms are activated.

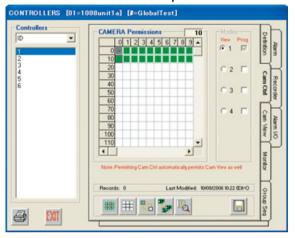
# Flexible System Partitioning and Priority

The System650EX has flexible system partitioning and priority features allowing for advanced operation management. Partitioning includes Controller to Area, Monitor, Camera view, Camera control, Group Sequence, Alarm, Alarm I/O, Recorder, Operator-to-Controller and Monitor-to-Camera. Priority control includes Operator, Controller, Alarm and Timer-event so that the flexible priority control is available. For example, a higher operator will not be bothered by the lower priority alarms or timer events and higher priority alarms will not be disturbed by the lower priority operators or timer events. In addition, the System650EX can create the Areas including Monitors, Controllers, Tour Sequences, Group Presets and Group Sequences. All these items, except controllers, can have a local number enabling the operators to select them by using a simpler reference number.

## Partitioning and Priority Overview



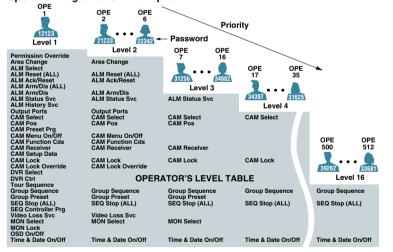
### **Controller-Camera Partition Setup Menu**



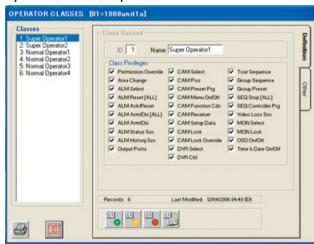
# User Management for Preventing Unauthorized Access

Up to 512 operators can be registered with individual operator IDs, passwords and priority (0 to 65,534). 16 operator levels are fully configurable with numerous parameters such as camera select, alarm select and DVR select. Administrators for the system setup are registered separately, allowing secure user management.

# **Operator Registration Example**



# **Operator Classes Setup Menu**



# Timer Events for Simple. Certain Operation

Camera spot, Tour Sequence, Group Preset, Group Sequence, Alarm arm/disarm and Mode change features can automatically be activated. following programmed schedules. Up to 1,024 timer events can be registered.

Setup Example									
Event ID	Priority	Action	ID	Monitor	Start Date	Start Time	End Date	End Time	Repeat
1	5	Alarm Disarm	-	-	11 Nov. 2006	08:00	_	_	Daily
2	5	Alarm Arm	-	-	11 Nov. 2006	17:00	_	-	Daily
3	10	Camera spot	1	1	11 Nov. 2006	08:00	31 Jan. 2007	17:00	Weekly
:									
1.024	20	Tour SEQ	3	4	1 Dec. 2006	09:00	1 Dec. 2006	18:00	Once

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# **Matrix Switcher: WJ-SX650**

### SPECIFICATIONS

D 0	1001/10 001/
Power Source	120 V AC, 60 Hz
Power Consumption	60 W
Ambient Operating Temperature	−10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity	Less than 90 %
Video Input Board	x 1
Video Output Board	x 1
Expansion Slot	x 1
RS-485 (Camera) Port	6-conductor modular jack x 4 (2-wire or 4-wire communication,
	With termination switches (MODE 1 ~ 4))
Dimensions (W x H x D)	420 mm x 265 mm x 372 mm (16-9/16" x 10-7/16" x 14-3/5")
	(excluding rubber feet and projections)
Weight	19.0 kg (42 lbs.)

# Card Cage: WJ-SX650U

# SPECIFICATIONS

Expansion Slot	x 3			
RS-485 (Camera) Port	6-conductor modular jack x 12 (2-wire or 4-wire communication,			
	With termination switches (MODE 1 ~ 4))			
Extension Port	6-conductor modular jack x 2			
(EXTENSION 1 IN, OUT)	(With a termination switch (TERM: ON, OFF))			
Extension Port	37pin D-sub connector x 2			
(EXTENSION IN 2, 3)				
Extension Port	37pin D-sub connector x 2			
(EXTENSION OUT 2, 3)				
Dimensions (W x H x D)	420 mm x 265 mm x 372 mm (16-9/16" x 10-7/16" x 14-3/5")			
	(excluding rubber feet and projections)			
Weight	18.0 kg (40 lbs.)			

# Video Input Board: WJ-PB65C32

### **SPECIFICATIONS**

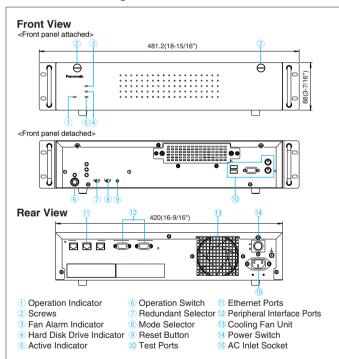
Camera Input	1 V [p-p] / 75 Ω (BNC x 32), composite video signal		
(CAMERA IN 1 ~ 32)	0.5 V [p-p] / 75 Ω data signal and		
	2.5 V [p-p] / 75 Ω vertical timing pulse multiplexed		
Video Output	1 V [p-p] / 75 Ω (25pin D-sub connector x 4),		
(VIDEO OUT 1 ~ 4)	active loop-thru output		
Alarm Input	N.O. (Normally Open contact) or		
(ALARM IN)	N.C. (Normally Close contact) selectable x 32 (37pin D-sub connector)		
Dimensions (W x H x D)			
Main Board	346 mm x 42 mm x 225 mm (13-3/5" x 1-3/5" x 8-4/5")		
IN X-2 Board	355 mm x 21 mm x 115 mm (14" x 4/5" x 4-1/2")		
IN X-1 Board	355 mm x 38 mm x 115 mm (14" x 1-1/2" x 4-1/2")		

# Video Output Board: WJ-PB65M16

# SPECIFICATIONS

SPECIFICATIONS			
Monitor Output	1 V [p-p] / 75 Ω (BNC x 16)		
(MONITOR OUT 1 ~ 16)			
Data Port (DATA 1 ~ 4)			
DATA 1	Terminal Mode (TMNL)/PS • Data (PS • DATA) selectable		
DATA 2	Terminal Mode (TMNL)		
DATA 3, 4	Terminal Mode (TMNL)/Digital Disk Recorder (HDR) selectable		
	6-conductor modular jack x 4 (With termination switches (MODE 1 ~ 4))		
Alarm Output (ALARM OUT 1, 2)			
Alarm Output	Open collector output x 32, Max. 24 V DC, 100 mA		
Alarm Recover Input	Non-voltage make contact input x 16		
Time Adjust Input	Non-voltage make contact input x 1		
Time Adjust Output	Open collector output x 32, Max. 24 V DC, 100 mA		
Extension Port	6-conductor modular jack x 2		
(EXTENSION 1 IN, OUT)	(With a termination switch (TERM: ON, OFF))		
VS Input	1 V [p-p] / 75 Ω (VS IN)		
VS Output	(VS OUT (THRU)): VS loop-thru output, (VS OUT): 1 V [p-p] / 75 $\Omega$ (VS)		
Serial Port	9pin D-sub connector x 2		
Dimensions (W x H x D)			
Main Board	346 mm x 42 mm x 225 mm (13-3/5" x 1-3/5" x 8-4/5")		
OUT X-3 Board	355 mm x 21 mm x 115 mm (14" x 4/5" x 4-1/2")		
OUT X-2 Board	355 mm x 21 mm x 115 mm (14" x 4/5" x 4-1/2")		
OUT X-1 Board	355 mm x 38 mm x 115 mm (14" x 1-1/2" x 4-1/2")		

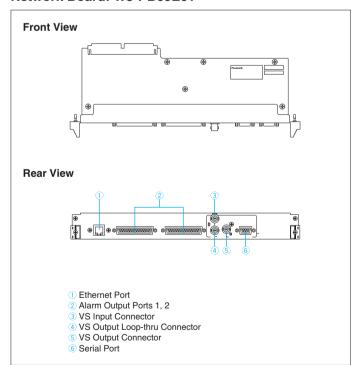
# Central Processing Unit: WJ-MPU955A



# **SPECIFICATIONS**

Power Supply	NTSC model: 120 V AC, 60 Hz		
Power Consumption	60 W		
Ethernet Ports	10Base-T/100Base-TX, RJ-45 x 3		
	System controller* (1 port), System device (1 port), other (1 port)		
	* Maximum 64 controllers		
RS-232C Port	9pin D-sub connector x 2		
<b>Ambient Operating Temperature</b>	+5 °C ~ +45 °C (41 °F ~ 113 °F)		
Ambient Operating Humidity	Less than 90 %		
Dimensions (W x H x D)	420 mm x 88 mm x 350 mm (16-9/16" x 3-7/16" x 13-3/4")		
	(excluding rubber feet and projections)		
Weight	9 kg (19.8 lbs.)		

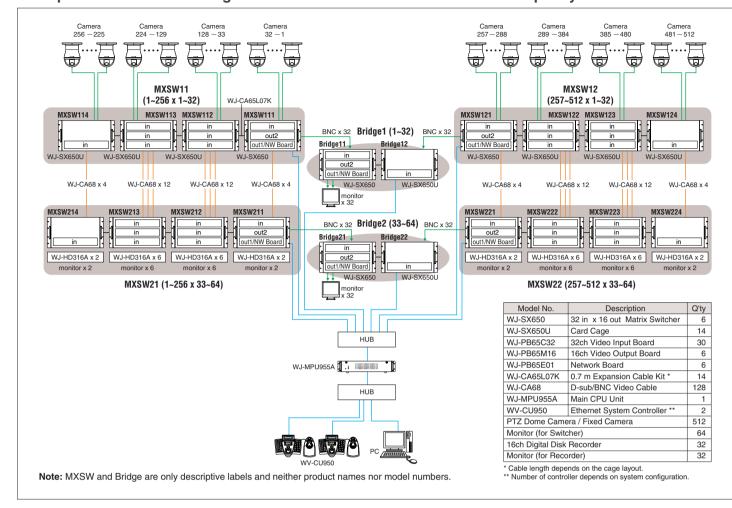
### Network Board: WJ-PB65E01



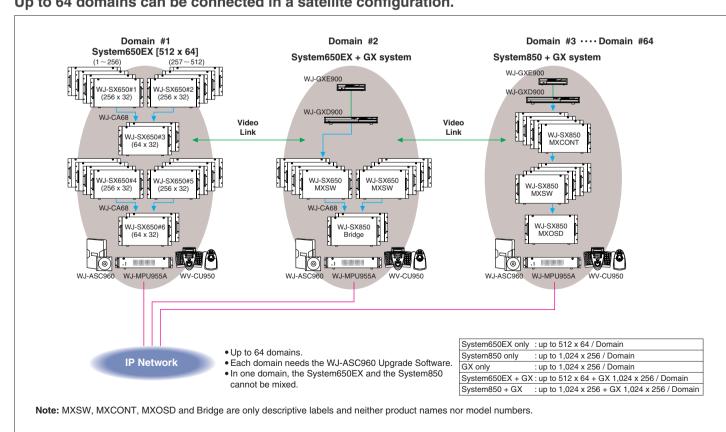
# **SPECIFICATIONS**

Ethernet Port	10Base-T/100Base-TX, RJ-45 x 1
Alarm Output Port 1, 2	Open collector output x 32, Max. 24 V DC, 100 mA
VS Input	1 V [p-p] / 75 Ω (VS IN)
VS Output	(VS OUT (THRU)): VS loop-thru output
	(VS OUT): 1 V [p-p] / 75 Ω (VS)
Serial Port	9pin D-sub connector x 1
Dimensions (W x H x D)	355 mm x 38 mm x 134 mm (14" x 1-1/2" x 5-3/10")

# An expanded full matrix configuration for a maximum 512-camera x 64-output system.



# Up to 64 domains can be connected in a satellite configuration.



# SPECIFICATIONS (Expanded System)

Video	Number of Inputs	1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector x Up to 512		
Interface	Transer of inputs	With Multiplexed Vertical sync (VD2) and control data.		
interrace	Logical Camera No. Range			
	Number of Loop	1.0 V [p-p] / NTSC composite 75 Ω / 25pin D-sub connectors.		
	Through Outputs	Active loop through.		
	Number of Outputs	1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector x Up to 64		
	Logical Monitor No. Range	1 ~ 9.999		
Controller	Number of Controllers	64 (WV-CU950 and ActiveX controller)		
Recorder	Number of Recorders	Up to 32 (WJ-HD300A Series, WJ-RT416) *Connection with the WJ-RT416 is a plan for future		
Alarm	Alarm Source			
Alariii	Alarm Source	Total up to 1,024 consists of followings		
		Terminal inputs x 1,024 Camera alarm x 512 Video loss alarm x 512		
		Serial alarm x 1,024 (Total of terminal input and output is 1,024)		
		Supports one state input mode.		
	Number of Alarm Programs	1,024		
	Alarm Outputs	Up to 256 (Terminals), Trigger: Active/ACK/RESET		
	Alarm Control	Ack (Auto/Manual), Reset (Auto/Manual), All reset, Arm, Disarm		
	Alarm Action	Up to 10 actions including Camera spot, Tour SEQ, Group SEQ and Tex		
	Alarm Target	Up to 64 targets, Up to 64 monitors in a target.		
	Multi-Alarm Mode	SEQ/HOLD		
	Alarm Log	Up to 30 days and 500KB x 99 files per day.		
	Alarm Schedule	Possible by Timer Event		
Functions	Partitioning	Controller-Area, Monitor, Camera view, Camera cont, G-SEQ,		
		Alarm, Alarm I/O, Recorder. Operator-Controller. Monitor-Camera.		
	Priority	0 ~ 65,534 for Operator, Controller, Alarm and Timer event		
	Sequence	Tour Sequence; 128 patterns, 64 steps, Logical No. 1 ~ 9,999		
		Group Preset; 128 patterns with 64 monitors, Logical No. 1 ~ 9,999		
		Group Sequence; 128 patterns, 64 steps, Logical No. 1 ~ 9,999		
		Dwell Time; Up to 86,339 seconds		
	Timer Events	1,024 (Camera Spot, Tour SEQ, Group Preset, Group SEQ, Alarm, Mode change		
	Area	64		
	Redundant CPU	Supported		
	Setup Method	Admin software (English)		
Operator	No. of Registration	512		
оролико.	Level	Class setup 1 ~ 16		
	Priority	0 ~ 65,534		
	Operator Login/System	64		
Administrator	No. of Registration	128		
Auministrator	Level	1~4		
Camera Control	PTZ			
(depending on the	Iris	Up to 64 steps  OPEN/CLOSE/RESET		
camera model)		FAR/NEAR/AUTO		
camera model)	Focus			
	Wiper	ON (Keep pressing)		
	Defroster	ON/OFF		
	Preset Positions	Up to 255 Preset Positions		
	Setup Menu	ON/OFF		
	Auto Mode	Auto Pan, SEQ, Sort, Patrol		
	B/W	Color/BW/AUTO1/AUTO2		
	AUX	AUX 1/2 ON/OFF		
	Function Number	1 ~ 256		
OSD Service	Time Date	Time: 12/24H, Date: 10 formats		
	Camera Title	28 alpha-numeric characters		
	Alarm Title	18 alpha-numeric characters		
	Status	System, Video loss, Alarm		
	Customizable Characters	32		
	Log	Alarm (100), Video loss (100)		
Log	Log by Admin Software	Switching, Operator, Alarm, Video loss, Admin setup		

# MATRIX SYSTEM650EX PRODUCT COMPONENTS



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