

Panasonic
Closed Circuit Video Equipment

Matrix System850

MATRIX SYSTEM 850

BIG TIME SECURITY

Up to 8,192 Cameras, 1,024 Monitors. Large Scale Matrix System850

For total security solutions bigger and better than ever before.

Panasonic now introduces the Matrix System850, opening a total whole new world to your CCVE system. Matrix System850's scalable, high-density modular architecture allows users to design systems of various different sizes up to 8,192 video inputs, 1,024 video outputs and 128 System controllers, and space-saving installation.

Flexible, scalable solutions, with standard, enhanced or high-speed CPUs. The standard CPU supports up to 512 inputs and 64 outputs. The enhanced CPU doubles the inputs to 1,024, and quadruples the outputs to 256. The high-speed CPU supports outstanding 8,192 inputs and 1,024 outputs. All system components are controlled through an Ethernet 10Base-T network.

Extended coverage is made possible by cable compensation circuitry which allows cables to be extended up to 1.2km long. Video, control and synchronization signals are all transmitted over a single coaxial cable, dramatically reducing both time and costs of installation. Control data can also be transmitted via separate RS-485 twisted pair cable for further extension.

Front access and hot swapping of the boards allow easy maintenance. An optional CPU management switch allows use of a backup Main CPU (MCPU-B) which automatically takes-over the operation when the MCPU-A encounters a problem.

Advanced features include system partitioning, Sequences & Group preset and alarm activations. Controllers, cameras, monitors, alarms etc. can be partitioned flexibly, and priority for operators, controllers and alarms-operators are also programmable.

The Matrix System850 equips Tour SEQ, Group preset and Group SEQ. Tour SEQ allows users to view a series of images from different cameras on any monitor. Group preset is a useful tool to view related spots by multiple cameras at one time. Group SEQ enhances the ability by combining multiple Group SEQs and displays them sequentially. The Matrix System850 supports flexible alarm handling. Two alarm interfaces are available such as VMD of Panasonic cameras and terminal inputs. Each alarm can be assigned to a target which includes one or more monitors, and acknowledged, reset, disarmed and armed individually.

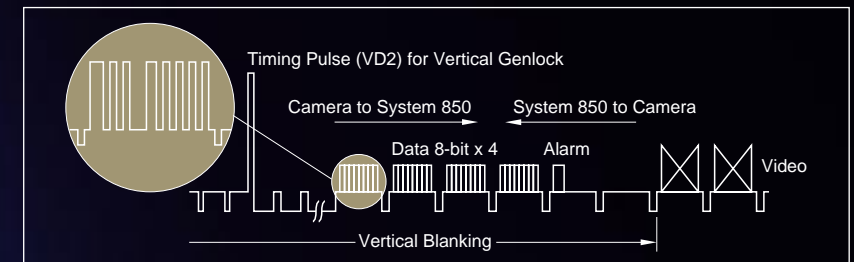
Ideal for big security needs.

Hotels, casinos, office buildings, rail and subway stations, stadiums, museums, shopping malls, and other secure installations-- wherever effective security requires a large-scale, total solution, the ideal choice is Panasonic and the **Matrix System850**.

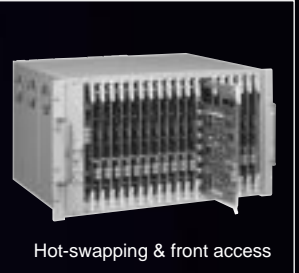
Key Features

version 1.3

- Up to 8,192 video inputs, 1,024 video outputs, 128 System controllers
- Scalable, space-saving, high-density modular architecture
- Roll free switching thanks to Panasonic VD2 timing pulse
- Choice of three CPUs
 - Standard: Up to 512 inputs, 64 outputs, and 16 System controllers
 - Enhanced: Up to 1,024 inputs, 256 outputs, and 64 System controllers
 - High Speed: Up to 8,192 inputs, 1,024 outputs, and 128 System controllers
- Ethernet 10Base-T network for system communication.
- Cable compensation circuitry enabling cable extension up to 1.2km long
- Control data and Timing Pulse (VD2) transmitted with video signal over a single coaxial cable or via separate twisted pair cable.



- Hot-swapping and front access maintenance
- Optional backup CPU for system reliability
- Ease of setup by Administration software
- Two grades controllers: Ethernet controller WV-CU850, RS485 Controller WV-CU350
- Flexible system partitioning
- Flexible alarm handling
- Tour SEQ, Group preset, Group SEQ
- Two alarm interfaces such as VMD of Panasonic cameras and terminal inputs.
- PC interface (Ethernet or RS232C) for system integration
- Centralized time and date generation



Major Functions

Area and System partitioning

The System850 allows users to create the Areas and partitioning.
An Area includes Monitors, Controllers, Tour SEQs, Group presets and Group SEQs.
All these items except controllers can have local number so that the user can select them by using simpler reference number such as monitor 1 instead of monitor 1,024 etc.
Flexible partitioning is also available as follows.

Controller-to-area

A Controller belongs to an area. It can not access the other areas.
Only Super-user can access different areas.

Controller-to-monitor

Limits the monitors that can be selected by the Controller.

Controller-to-camera view

Limits the cameras that can be selected or controlled by the Controller.

Controller-to-camera control

Limits the cameras that can be controlled by the Controller.

Controller-to-Group SEQ

Limits the Group SEQ that can be launched by the Controller.

Controller-to-Alarm

Limits the alarms that can be controlled by the Controller.

Controller-to-Alarm I/O

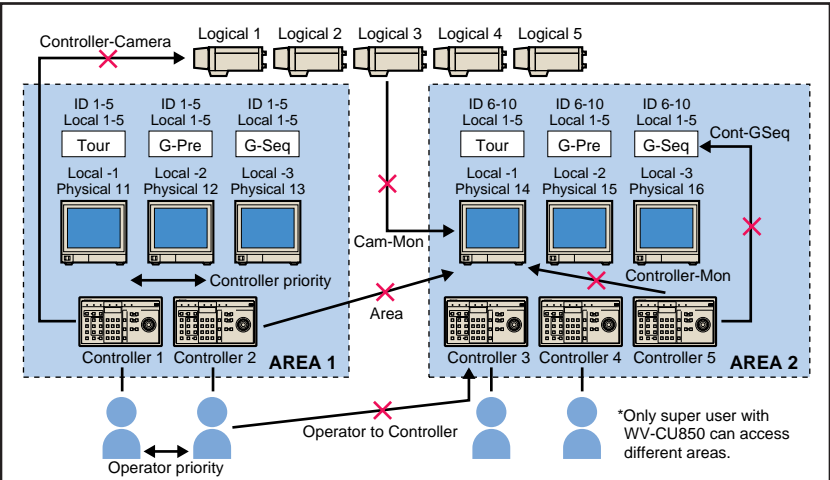
Limits the Alarm I/O ports that can be controlled by the Controller.

Operator-to-Controller

Limits the Controllers that the operator can log on to.

Monitor-to-camera

Limits the cameras that can be shown on the monitor.



- Priority**
- Operator**
Each Operator has priority. When two Operators are trying to control same camera/monitor, only higher priority Operator is allowed.
 - Controller**
Each Controller has priority. When two Controllers are trying to control same camera, only higher priority Controller is allowed.
 - Alarm-Operator**
Each Alarm has priority. When an operator is trying to select a monitor which currently displays an alarm camera, the priority of alarm and operator effects the result.
- * Operator priority has higher priority than Controller priority.

Alarm

The Matrix System850 supports flexible alarm handling. Each alarm is assigned to a Target which includes one or more monitors, and Tour sequences or camera spot with preset position can be programmed as alarm activation. Two alarm interfaces are supported such as VMD of Panasonic cameras and terminal inputs.

Example 1 SEQ mode

Target 1 includes monitor 1,2,3, and AL1-5 are set to Target 1
Target 2 includes monitor 4,5,6, and AL6-7 are set to Target 2

set up of Administration software

AL1: Target 1: Cam 1: Dwell time 2 sec
AL2: Target 1: Cam 2: Dwell time 2 sec
AL3: Target 1: Cam 3: Dwell time 3 sec
AL4: Target 1: Cam 4: Dwell time 3 sec
AL5: Target 1: Cam 5: Dwell time 3 sec
AL6: Target 2: Cam 6: Dwell time 2 sec
AL7: Target 2: Cam 7: Dwell time 2 sec

When AL1 - AL3 are activated....

Target 1: C1, C2, C3
Target 2: C4, C5, C6

When AL1-AL7 are activated....

Target 1: C1 2s, C2 2s, C3
Target 2: C4 3s, C5 3s, C6, C7

When AL 4 and AL 5 are, then activated successively, Cam 1 and Cam 4 are displayed on Monitor1, Cam 2 and Cam 5 are displayed on Monitor2 in sequence with programmed dwell time. when AL 6 and AL 7 are activated, Cam 6 and Cam 7 are displayed on Monitor4 and Monitor5 respectively.

Example 2 Hold mode

When multiple alarms are received in Hold mode, 1st alarm camera is kept displayed on the assigned monitor while the system holds next alarm camera cued.
The alarm camera which is cued and 1st alarm camera are displayed sequentially by selecting the alarm cued.

CUED → C4 → C5

Target 1: C1, C2, C3

Tour SEQ, Group preset and Group SEQ

Combining presets with two types of sequence modes, System850 allows users to choose the combination that best suits user's building layout and work style. Sequence modes can be triggered automatically by alarms, allowing highly efficient surveillance of key points in widely distributed areas.

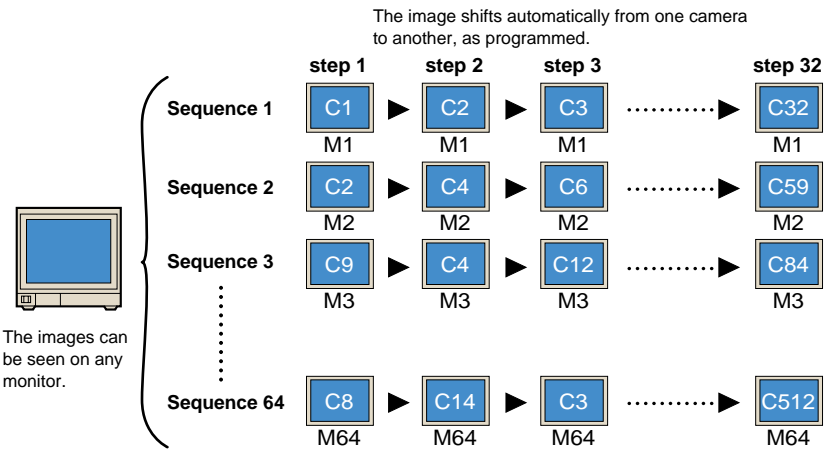
Tour Sequence

This mode automatically displays the images from programmed cameras sequentially on a monitor.

Sequences and Steps by Type of CPU

Type	Standard	Enhanced	High-Speed
Sequences	64	128	256
Steps	32	64	128

The **Standard CPU** allows the use of up to 64 separate tour sequences, each including up to 32 steps. Camera positions and dwell times can be set separately for each step.



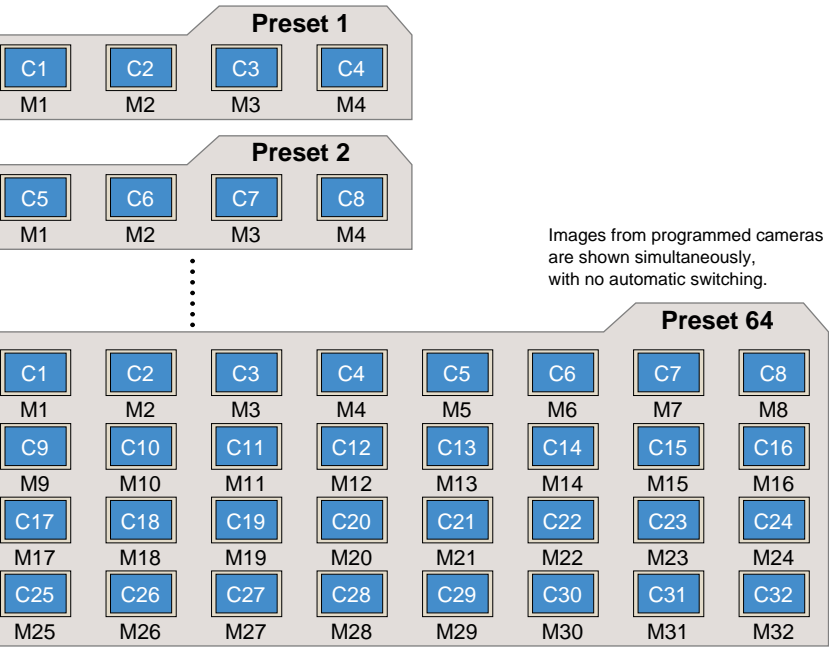
Group Preset

Images from programmed cameras are shown on a group of monitors, with no automatic switching involved.

Monitors and Presets by Type of CPU

Type	Standard	Enhanced	High-Speed
Monitors	32	64	128
Presets	64	128	256

The **Standard CPU** allows the grouping of up to 32 monitors, in up to 64 separate preset. Camera preset position can be programmed separately for each of these presets.



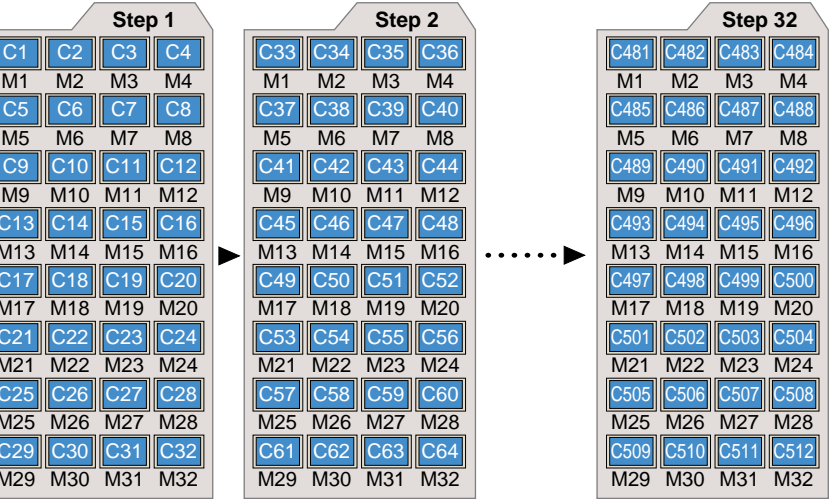
Group Sequence

Group sequence automatically shifts the images on a selected group of monitors to images transmitted from groups programmed groups of cameras.

Monitors, Sequences and Steps by Type of CPU

Type	Standard	Enhanced	High-Speed
Monitors	32	64	128
Sequences	64	128	256
Steps	32	64	128

The **Standard CPU** allows the grouping of up to 32 monitors in up to 64 sequences with up to 32 steps in each sequence. Camera positions and dwell times can be set separately for each step.



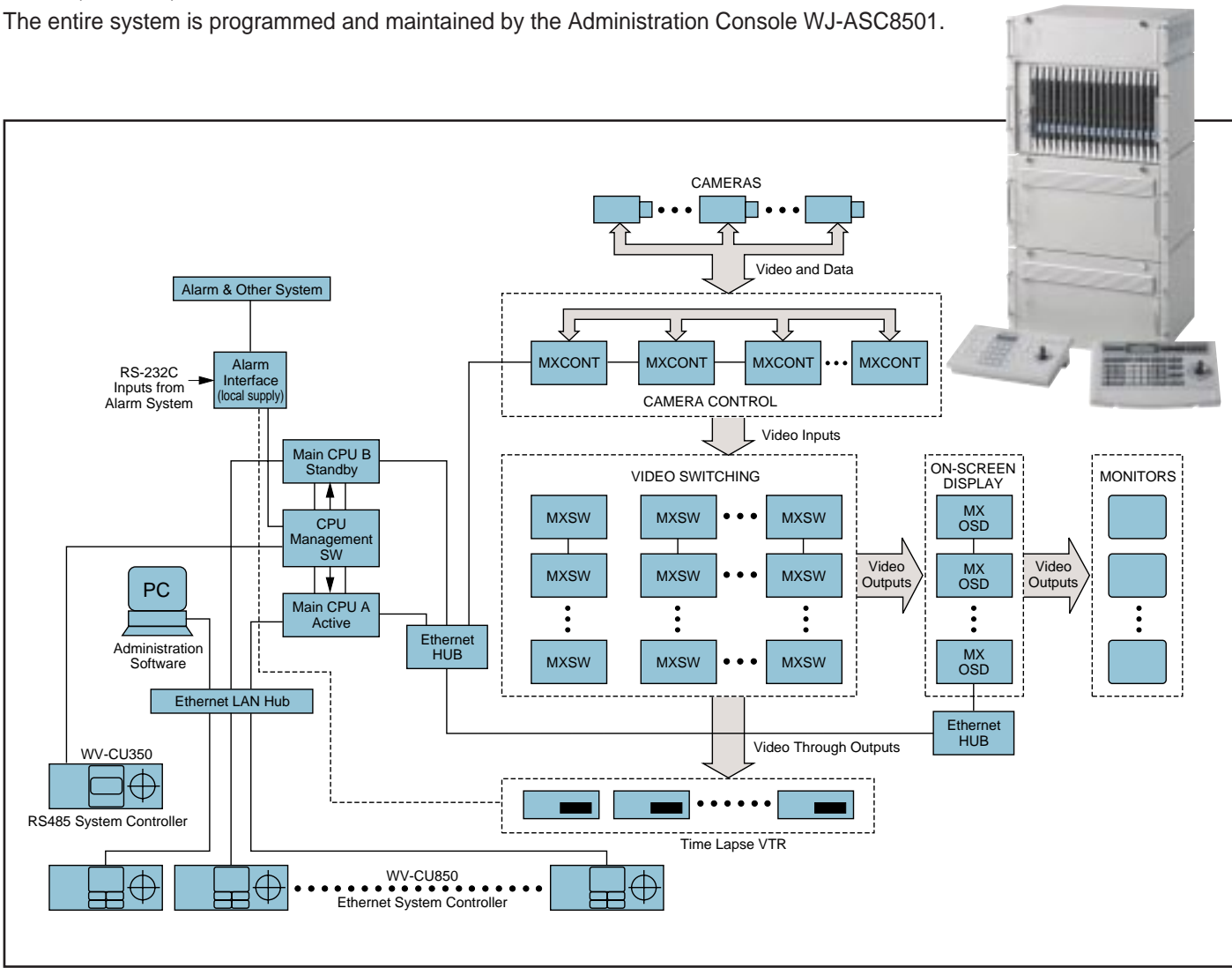
All of the images shown on the monitors switch simultaneously.

The chart bellow is the system diagram of the Panasonic **System850**. The camera video signals are input to the Camera Control/Input Cages (MXCONT) that include the Multiplex Video Input Boards (WJ-PB85X08) with the Character Generator Daughter Boards and/or the RS-485 Data Communication Boards (WJ-PB85R08). A MXCONT can have up to 128 video inputs and the system can be expanded up to 8,192 video inputs by adding MXCONTs. The signals are then supplied to the Crosspoint Switch Cages (MXSW) that include the Video Cross Point Input Boards (WJ-PB85C16) and the Video Cross Point Output Boards (WJ-PB85M16). A MXSW can have up to 256 video inputs/32 video outputs and the system can be expanded up to 8,192 inputs/1,024 outputs by adding MXSWs. The video signals are routed to the output terminals of the Cross Point Output Boards according to camera/monitor selection operations and supplied to the Monitor OSD Boards in the Monitor OSD/Output Cages (MXOSD). A MXOSD can have up to 128 video outputs and the system can be expanded up to 1,024 video outputs by adding MXOSDs. In the MXOSDs, system status characters are appended to the video signals and the signals are supplied to monitor displays. Cameras can be controlled by Multiplex Video Input Boards (WJ-PB85X08) via single coax or RS485 Data communication Boards (WJ-PB85R08) via RS-485.

The **System850** is controlled by either Ethernet System Controller (WV-CU850) or RS-485 System Controller (WV-CU350). The system communication is managed via 10 Base-T Ethernet and an external ethernet port enables integrations with external system such as Card access, Fire alarm, and Intrusion detection.

Three grades are available for Main CPU unit such as Standard Main CPU Unit (WJ-MPU850), Enhanced Main CPU Unit (WJ-MPU855) and High Speed Main CPU unit (T.B.A.). Two Main CPU units can be equipped for system reliability. When a failure happens in one MCPU (MCPU-A), CPU Management Switch (WJ-MPS850) switches the system control to the other MCPU (MCPU-B).

The entire system is programmed and maintained by the Administration Console WJ-ASC8501.



Cage Legend	Description
MXCONT	Camera Control/Input Cage
MXSW	Crosspoint Switch Cage
MXOSD	Monitor OSD/Output Cage

Cage Legend	Description
MXALM	Alarm I/O Cage
MXLPT	Loop Through/Passive Input Cage

Note: These legends are used to describe cages by function. They are not product names nor Model No.

Ethernet System Controller WV-CU850

Front View

Rear View

1. Alarm acknowledge indicator

2. Monitor busy indicator

3. Monitor LED display

4. Monitor lock indicator

5. LCD display

6. Camera busy indicator

7. Camera LED display

8. Alarm indicator

9. Link indicator

10. Operate indicator

11. Alarm acknowledge key

12. Alarm key

13. Alarm reset key

14. Alarm arm key

15. Function keys

16. Joystick controller

17. Iris control keys

18. Focus control keys

19. Zoom control keys

20. Area key

21. Program preset key

22. Digital output key

23. Log out key

24. Call preset key

25. Camera position key

26. Camera/Enter key

27. Clear/Escape key

28. Numeric keys

29. Shift key

30. Next key

31. Previous key

32. Stop key

33. Pause key

34. Forward run key

35. Reverse run key

36. Monitor key

37. Group preset key

38. Group sequence key

39. Tour sequence key

40. OSD key

41. Power Switch

42. DC12V Input Jack

43. LED Brightness Control

44. LCD Brightness Control

45. LCD Contrast Control

46. Ethernet Port

47. Data Port

48. RS-232C Port

SPECIFICATIONS <small>[PAL]</small>	
Power Required	12 V DC 800mA (Use exclusive AC Adapter supplied with the controller.)
LED Display	4 digits for Monitor, 5 digits for Camera
LCD Display	160 x 64 dot matrix
Keys and Joystick	Numeric keys: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, SHIFT, CLEAR Select keys: CAMERA, MONITOR Sequence Control: GROUP PRESET, GROUP SEQ, TOUR SEQ NEXT, PREV, STOP, PAUSE, FWD RUN, REV RUN Camera Control: Joystick pan-tilt (Variable speed) CLOSE, OPEN, NEAR, FAR, WIDE, TELE Alarm Control : ACK, ALARM, RESET, ARM Function keys : LOGOUT, AREA, CALL PRESET, PGM PRESET, CAM POSI, DIGITAL OUT, OSD Special Function keys: F1, F2, F3, F4, F5, F6
Ethernet Port	10 Base-T, 8-conductor Modular Jack
Data Output Port	6-conductor Modular Jack (RS-485, Full Duplex)
RS-232C port	9-pin D-sub connector
Ambient Operating Temperature	-10°C - +50°C
Ambient Operating Humidity	Less than 90%
Dimensions	330 (W) x 74 (H) x 221 (D) mm
Weight	2.2 kg without AC Adapter
AC Adapter	220 V-240 V AC, 50Hz

APPEARANCE

Unit : mm

RS485 System Controller WV-CU350

Front View

Rear View

1. Operate indicator

2. Link indicator

3. Alarm indicator

4. Monitor indicator

5. LED Display

6. Camera indicator

7. Busy indicator

8. Prohibited indicator

9. Joystick Controller

10. Iris buttons

11. Focus buttons

12. Zoom buttons

13. Program Preset button

14. Call Preset button

15. Camera / Enter button

16. Clear / Escape button

17. Numeric buttons

18. Shift button

19. Alarm button

20. Alarm Acknowledge button

21. Alarm Reset button

22. Next button

23. Previous button

24. Stop button

25. Pause button

26. Tour Sequence button

27. Group Sequence button

28. Group Preset button

29. Log Out button

30. Function buttons

31. OSD button

32. Monitor button

33. Mode Selection Switches

34. RS485 Data Output Port

35. DC 9V Input Jack

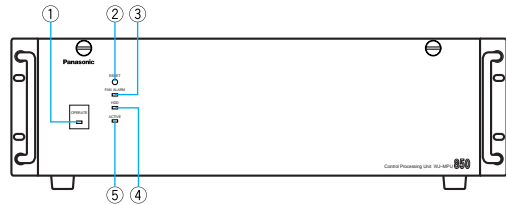
SPECIFICATIONS <small>[PAL]</small>	
Power Required	9 V DC 400 mA (use exclusive AC adaptor supplied with the controller)
Data Output Port	6-conductor Modular Jack (RS-485, Full Duplex)
Switching Functions	Tour Sequence / Group Sequence / Forward Sequence / Backward Sequence / Forward Step / Reverse Step
Switching Functions	Sequence: Spot / Multiscreen Display Mode: Multiscreen / Still / Electronic Zoom
Camera Functions	Electronic Shutter: On / Off, Shutter Speed Select Electronic Sensitivity Up Mode Select: Auto / Manual / Off ALC / ELC: ALC / ELC or Manual Automatic Gain Control: On / Off White balance: ATW / AWC Back Light Compensation: Auto / Preset / Off Site Alarm (Motion Detector): On / Off Site Alarm (Motion Detector) Display Mode: On / Off
Lens Functions	Iris: Open / Close / Preset (only with DC control lens) Focus: Near / Far Zoom: Tele / Wide Auto Focus: Activate
Housing	Wiper: On / Off, Defroster: On / Off
Pan / Tilt	Manual Pan: Right / Left, Manual Tilt: Up / Down Auto Pan: On / Off, Random Pan: On / Off, Preset, Home
Auxiliary Switch	AUX 1 - 2: On / Off
Ambient Operating Temperature	-10°C - +50°C
Ambient Operating Humidity	Less than 90%
Dimensions	300 (W) x 74 (H) x 177 (D) mm
Weight	1.3 kg without AC Adapter
AC Adapter	220 V-240 V AC, 50Hz

APPEARANCE

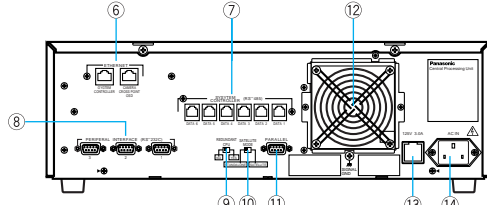
Unit : mm

Standard Main CPU Unit **WJ-MPU850**

Front View



Rear View

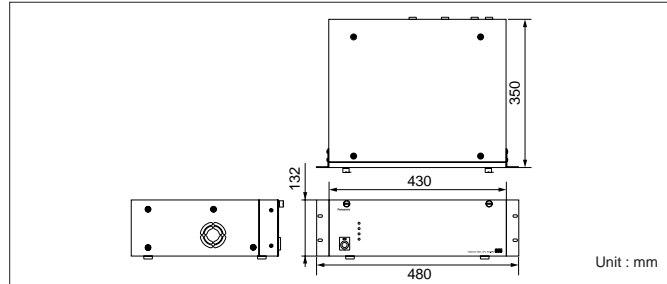


1. Operate Indicator
2. Reset Button
3. Fan Alarm Indicator
4. HDD (Hard Disk Drive) Indicator
5. Active Indicator
6. Ethernet Ports
7. Controller Ports (RS-485)
8. Peripheral Interface Ports
9. Redundant CPU selector
10. Mode Selector
11. Parallel Port
12. Cooling Fan Unit
13. Fuse Holder
14. AC Inlet Socket

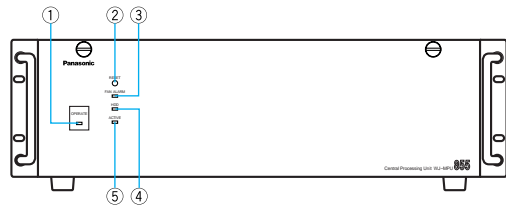
SPECIFICATIONS **PAL**

Power Supply	220 V-240 V AC, 50Hz
Power Consumption	(92 W)
Controllable Cameras	512 cameras (4 card cages)
Cross Point Controllable Cages	512 x 64 (4 card cages)
Controllable Monitors	64 (1 card cage)
System Controller Ports	
Ethernet;	10 Base-T, 8-conductor modular jack (x1) Maximum 16 controllers
RS-485;	6-conductor modular jack (x6) Maximum 6 controllers
Ethernet Ports	10 Base-T, 8-conductor modular jack for card cage control (1 port)
RS-232C Port	9-pin D-sub connector (x3)
Ambient Operating Temperature	-10°C ~ +50°C
Ambient Operating Humidity	Less than 90%
Dimensions	430 (W) x 132 (H) x 350 (D) mm
Weight	16 kg

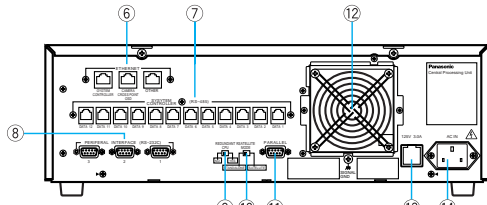
APPEARANCE

Enhanced Main CPU Unit **WJ-MPU855**

Front View



Rear View

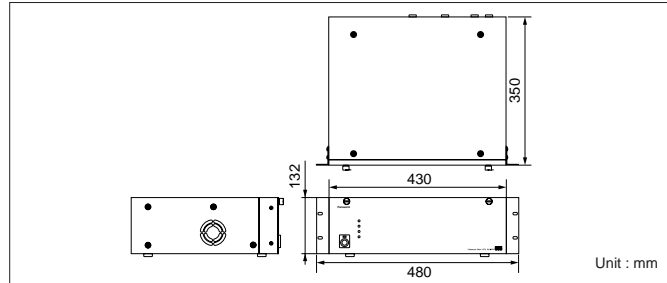


1. Operate Indicator
2. Reset Button
3. Fan Alarm Indicator
4. HDD (Hard Disk Drive) Indicator
5. Active Indicator
6. Ethernet Ports
7. Controller Ports (RS-485)
8. Peripheral Interface Ports
9. Redundant CPU selector
10. Mode Selector
11. Parallel Port
12. Cooling Fan Unit
13. Fuse Holder
14. AC Inlet Socket

SPECIFICATIONS **PAL**

Power Supply	220 V-240 V AC, 50Hz
Power Consumption	(92 W)
Controllable Cameras	1,024 cameras (8 card cages)
Cross Point Controllable Cages	1,024 x 256 (32 card cages)
Controllable Monitors	256 (2 card cage)
System Controller Ports	
Ethernet;	10 Base-T, 8-conductor modular jack (x1) Maximum 64 controllers
RS-485;	6-conductor modular jack (x12) Maximum 12 controllers
Ethernet Ports	10 Base-T, 8-conductor modular jack for card cage control (1 port) Other (1 port)
RS-232C Port	9-pin D-sub connector (x3)
Ambient Operating Temperature	-10°C ~ +50°C
Ambient Operating Humidity	Less than 90%
Dimensions	430 (W) x 132 (H) x 350 (D) mm
Weight	16 kg

APPEARANCE

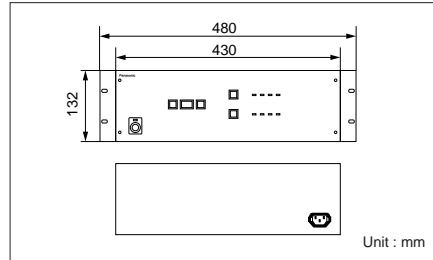
CPU Management Switch **WJ-MPS850**SPECIFICATIONS **PAL**

Diagnostic input/output Interface	
Interface between A CPU and B CPU	Dsub-9p, female x2 (A&B)
CPU reset	1bit (out), Photo isolation x2 (A&B)
Mode indication to CPU	1bit (out), Dry contact x2 (A&B)
CPU diagnostic	RS-232C x2 (A&B)
Controller (RS-485) interface	
Interface for A CPU	8 ports, 6p Modular connector
Interface for B CPU	8 ports, 6p Modular connector
Interface for Controller	8 ports
Peripheral (RS-232C) interface	
Interface for A CPU	3 ports, Dsub-9p female connector
Interface for B CPU	3 ports, Dsub-9p female connector
Interface for peripheral device	3 ports

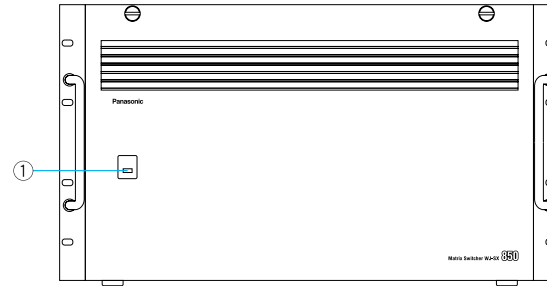
Mode select switch

Auto or Manual mode select	1 alternate switch with LED
Manual select of A (active) CPU	1 none lock switch with LED
Manual select of B (standby) CPU	1 none lock switch with LED
A CPU reset switch	1 none lock switch with LED
B CPU reset switch	1 none lock switch with LED
Power Supply	220 V-240 V AC, 50Hz
Dimensions	430 (W) x 132 (H) x 350 (D) mm
Weight	16 kg

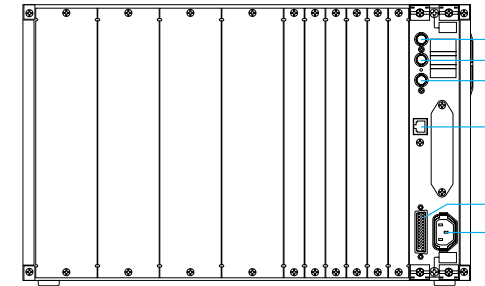
APPEARANCE

Card Cage w/PS and LCPU **WJ-SX850**

Front View



Rear View

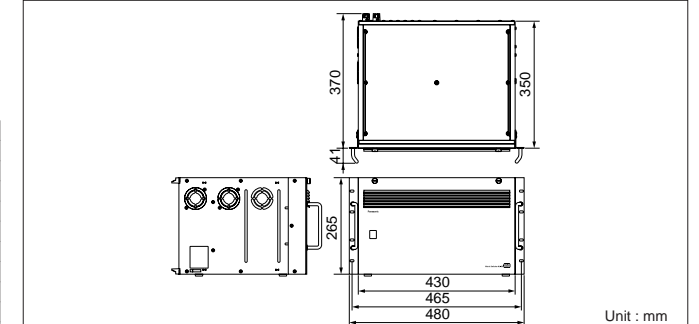


1. Operate Indicator
2. VS/VD Input Connector
3. VS/VD Output Connector
4. VD Output Connector
5. Ethernet Port
6. RS-232C Port
7. AC Inlet Socket

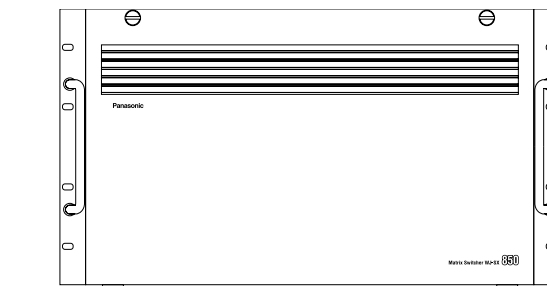
SPECIFICATIONS **PAL**

Power Supply	220 V-240 V AC, 50Hz
Power Consumption	150 W (max. 150 W when all slots are occupied)
VS/VD Input	2 (BNC)
VS/VD Output	2 (BNC)
VD Output	Video Level 4 V [p-p]/75 Ω (BNC)
Ethernet Port	10 Base-T, 8-Conductor modular jack
RS-232C port	25-pin D-sub connector
Ambient Operating Temperature	-10°C ~ +50°C
Ambient Operating Humidity	Less than 90%
Dimensions	430 (W) x 265 (H) x 350 (D) mm
Weight	13 kg

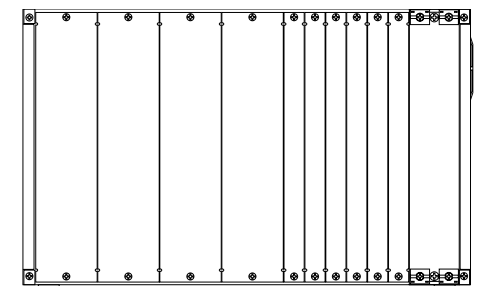
APPEARANCE

Passive Card Cage **WJ-BX850**

Front View

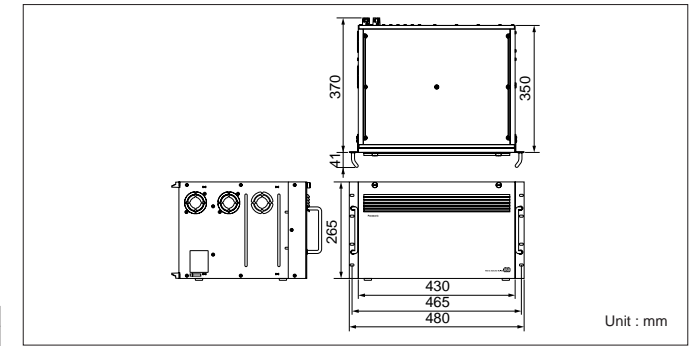


Rear View

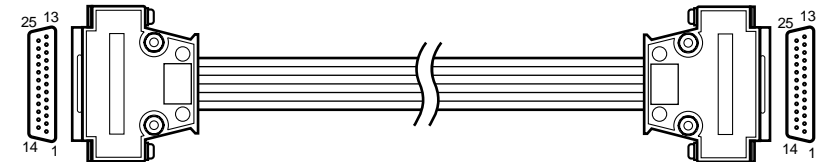
SPECIFICATIONS **PAL**

Dimensions	430 (W) x 265 (H) x 350 (D) mm
Weight	13 kg

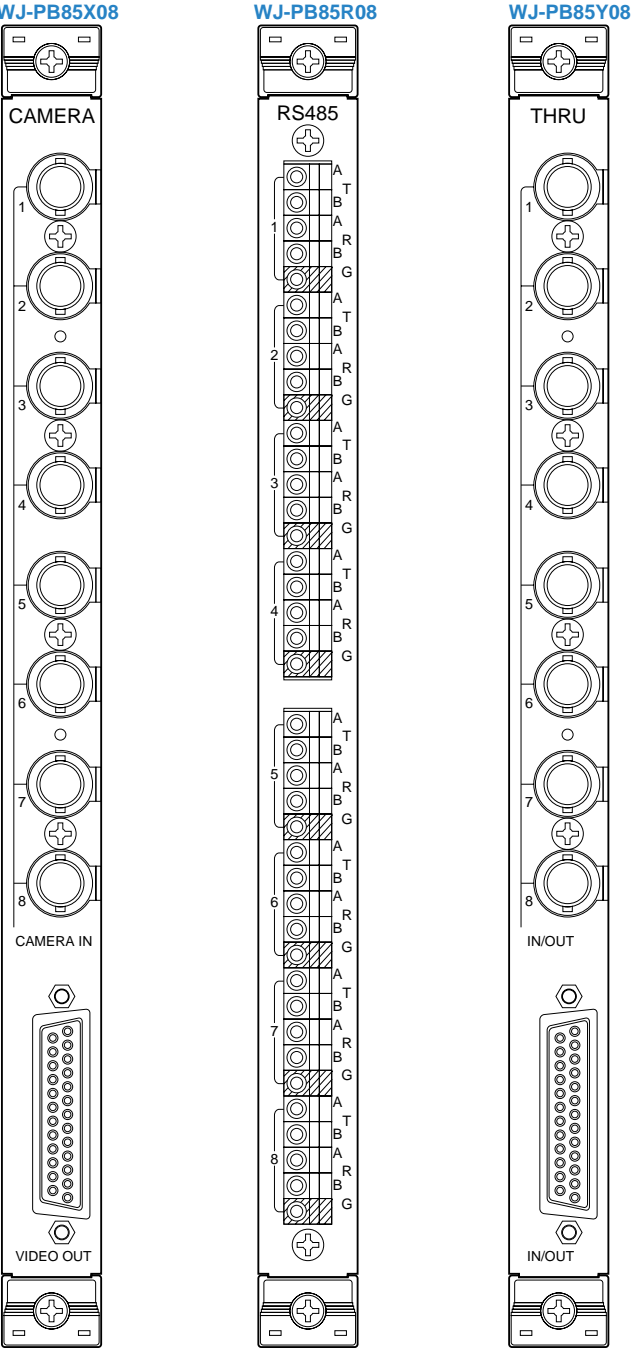
APPEARANCE



Multiple Video Cables

WJ-CA85L05 (0.5 m)**WJ-CA85L10** (1.0 m)**WJ-CA85L15** (1.5 m)**WJ-CA85L20** (2.0 m)**WJ-CA85L25** (2.5 m)**WJ-CA85L30** (3.0 m)**WJ-CA85L50** (5.0 m)

Connectors on Rear Board



8-Channel Multiplex Video Input Board

WJ-PB85X08

APPEARANCE

SPECIFICATIONS PAL

Camera Input (1 - 8)	1.0 V [p-p]/75Ω composite video signal 0.5 V [p-p]/75Ω data signal and 2.5 V [p-p]/ 75Ω vertical timing pulse multiplexed.
Video Output	1.0 V [p-p]/75Ω composite video signal 25-pin D-sub connector
Functions	Cable compensation: S, M, L (Short, Middle, Long) Vertical Drive Pulse (VD2) Output: On / Off Control Data Output: On / Off
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D) mm Rear Board : 117.5 (W) x 265 (H) x 20 (D) mm
Weight	0.6 kg

8-Channel RS485 Data Communication Board

WJ-PB85R08

APPEARANCE

SPECIFICATIONS PAL

Data Input/Output (1 - 8)	RS-485 [5-pin T(A), T(B), R(A), R(B), G] x8 Full Duplex or Half Duplex selectable
Transmission Speed	(Baud Rate) 1,200 - 19,200 bps
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D) mm Rear Board : 117.5 (W) x 265 (H) x 20 (D) mm
Weight	0.5 kg

8-Channel ANK Character Generator Daughter Board

WJ-PB85D01

APPEARANCE

SPECIFICATIONS PAL

Dimensions	125 (W) x 175 (H) x 10 (D) mm
Weight	0.1 kg

8-Channel Loop Through Board

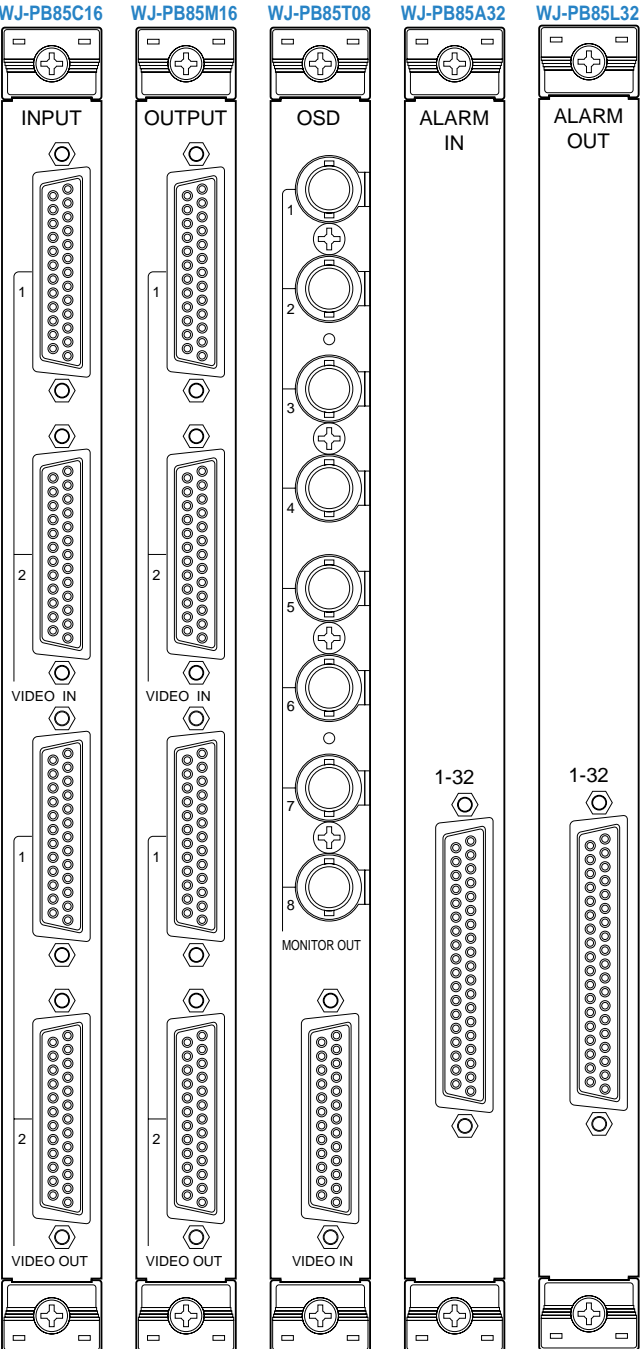
WJ-PB85Y08

APPEARANCE

SPECIFICATIONS PAL

Video Input/Output (1 - 8)	1.0 V [p-p]/75Ω composite video signal BNC connector (x8)
Video Input/Output	1.0 V [p-p]/75Ω composite video signal 25-pin D-sub connector (x1)
Dimensions	117.5 (W) x 265 (H) x 20 (D) mm
Weight	0.2 kg

Connectors on Rear Board



32-Channel Alarm Input Board

WJ-PB85A32

APPEARANCE

SPECIFICATIONS PAL

Alarm Input (1 - 32)	Normally Open or Normally Closed selectable 37-pin D-sub connector (Alarm Output)
Open Collector Output	12 V DC 50 mA maximum
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D) mm Rear Board : 117.5 (W) x 265 (H) x 20 (D) mm
Weight	0.5 kg

16-Channel Video Cross Point Input Board

WJ-PB85C16

APPEARANCE

SPECIFICATIONS PAL

Video Input (1 - 2)	1.0 V [p-p]/75 Ω composite video signal 8 inputs 25-pin D-sub connector (x2)
Video Output (1 - 2)	1.0 V [p-p]/75 Ω composite video signal 8 outputs 25-pin D-sub connector (x2)
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D)mm Rear Board : 117.5 (W) x 265 (H) x 20 (D)mm
Weight	0.5 kg

16-Channel Video Cross Point Output Board

WJ-PB85M16

APPEARANCE

SPECIFICATIONS PAL

Video Input (1 - 2)	1.0 V [p-p]/75 Ω composite video signal 8 inputs 25-pin D-sub connector (x2)
Video Output (1 - 2)	1.0 V [p-p]/75 Ω composite video signal 8 outputs 25-pin D-sub connector (x2)
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D)mm Rear Board : 117.5 (W) x 265 (H) x 20 (D)mm
Weight	0.5 kg

8-Channel On Screen Display Board

WJ-PB85T08

APPEARANCE

SPECIFICATIONS PAL

Video Input	1.0 V [p-p]/75Ω composite video signal 8 inputs 25-pin D-sub connector
Video Output	1.0 V [p-p]/75Ω composite video signal
On Screen Display	Time and Date : 3 display types selectable Camera Title : 1 Line, 30 alphanumeric characters maximum
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D) mm Rear Board : 117.5 (W) x 265 (H) x 20 (D) mm
Weight	0.6 kg

32-Channel Alarm Output Board

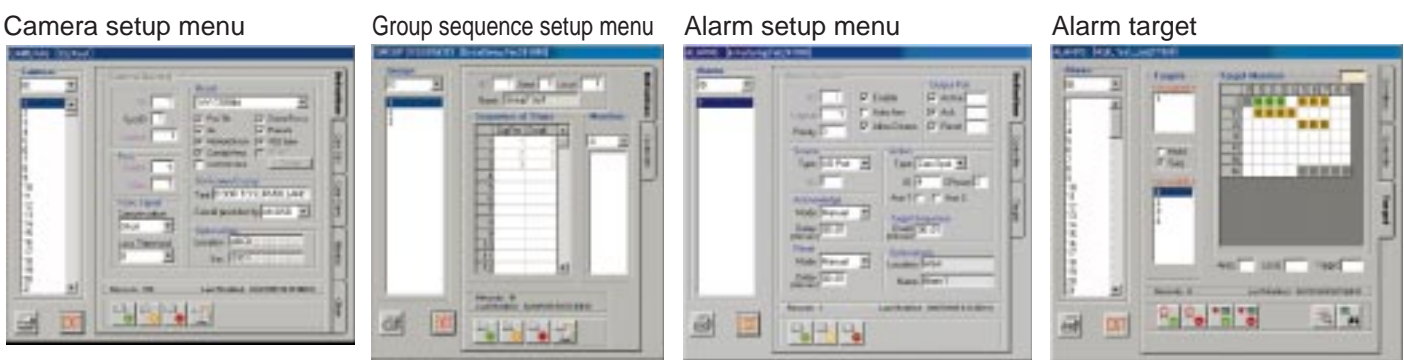
WJ-PB85L32

APPEARANCE

SPECIFICATIONS PAL

Alarm Output (1 - 32)	24V DC 500 mA maximum Normally Open or Normally Closed selectable
	37-pin D-sub connector
Dimensions	Front Board : 255 (W) x 250 (H) x 12 (D) mm Rear Board : 117.5 (W) x 265 (H) x 20 (D) mm
Weight	0.5 kg

WJ-ASC8501



The **WJ-ASC8501 administration software** is principally used to configure the system850, program its functions such as Tour SEQ, Group Preset and Alarm, and back up entire data of System850. Programming of the WJ-ASC8501 includes camera, controller, monitor, alarm I/O, alarm, operator, tour seq, group preset, group seq, card cage and grade of CPU.

Camera setup menu determines logical channel ID, control port, video port, type of the camera, cable compensation and camera title.

Group SEQ setup menu determines area, local group seq ID, and group seq steps. Corresponding monitor numbers are also displayed in the group seq setup menu.

Alarm setup menu provides logical alarm number, priority, alarm source, action of alarm, acknowledge/reset mode, arm/disarm and dwell time for multi-alarm sequence.

Alarm target menu allows you to program assignment of alarms and targets, assignment of targets and monitors and hold/sequence mode.

Data base manager, Account manager, AC log and Log manager are also available for advanced administration.

Trademark : Windows and Windows NT are trademarks of Microsoft Corporation in the U.S.A and other countries.

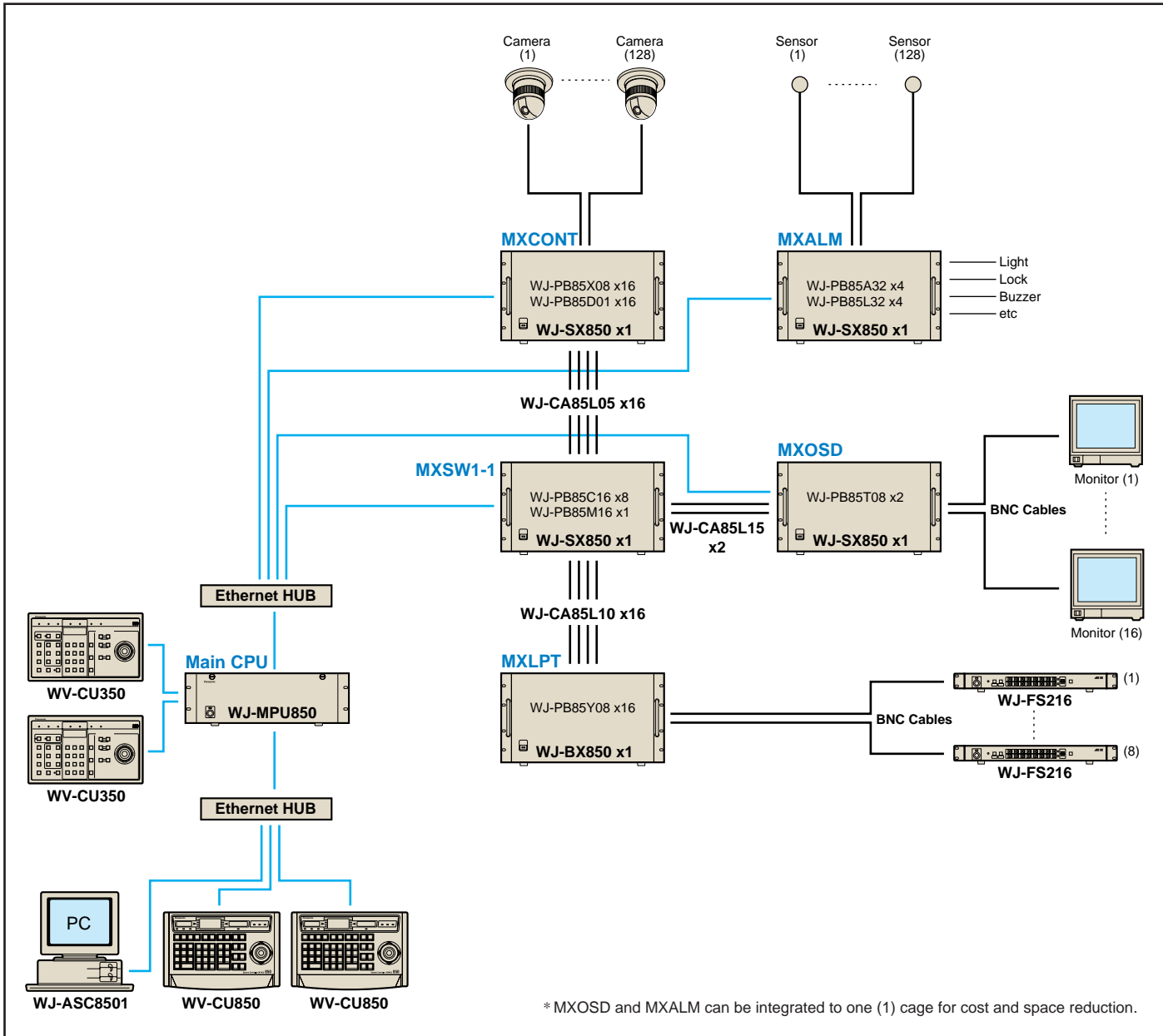
MODEL No.	Description	Q'ty
WJ-SX850	Card Cage w/PS and LCPU	4
WJ-BX850	Passive Card Cage	1
WJ-PB85X08	8ch Multiplex Video Input Board	16
WJ-PB85D01	8ch ANK Character Generator	16
WJ-PB85Y08	8ch Video Loop Through Board	16
WJ-PB85C16	16ch Video Cross Point Input Board	8
WJ-PB85M16	16ch Video Cross Point Output Board	1
WJ-PB85T08	8ch Monitor OSD Board	2
WJ-PB85A32	32ch Alarm Input Board	4
WJ-PB85L32	32ch Alarm Output Board	4
WJ-MPU850	Standard Main CPU Unit	1
WV-CU850	Ethernet System Controller	2
WV-CU350	RS485 System Controller	2
WV-ASC8501	Administration Software	1
WJ-CA85L05	0.5 m Multiple Video Cable	16*
WJ-CA85L10	1.0 m Multiple Video Cable	16*
WJ-CA85L15	1.5 m Multiple Video Cable	2*

* Cable Length depends on the cage layout.

- 128 inputs
- 16 outputs
- 128 alarm inputs
- 128 alarm outputs
- 128 loop through outputs



System Diagram



* MXOSD and MXALM can be integrated to one (1) cage for cost and space reduction.

System Examples

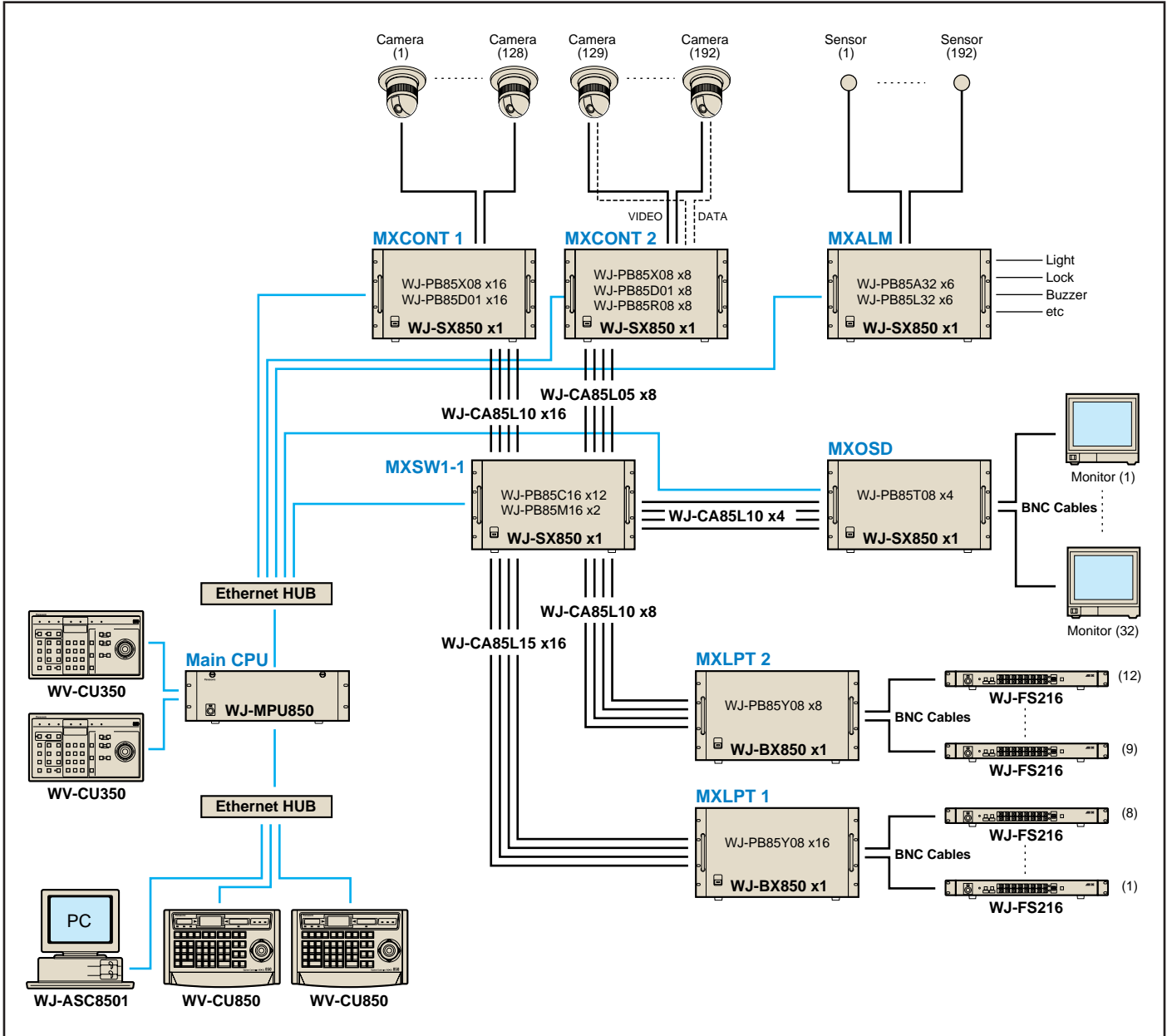
192 inputs x 32 outputs + 64 RS485

MODEL No.	Description	Q'ty
WJ-SX850	Card Cage w/PS and LCPU	5
WJ-BX850	Passive Card Cage	2
WJ-PB85X08	8ch Multiplex Video Input Board	24
WJ-PB85D01	8ch ANK Character Generator	24
WJ-PB85R08	8-Ch RS485 Data Communication Board	8
WJ-PB85Y08	8ch Video Loop Through Board	24
WJ-PB85C16	16ch Video Cross Point Input Board	12
WJ-PB85M16	16ch Video Cross Point Output Board	2
WJ-PB85T08	8ch Monitor OSD Board	4
WJ-PB85A32	32ch Alarm Input Board	6
WJ-PB85L32	32ch Alarm Output Board	6
WJ-MPU850	Standard Main CPU Unit	1
WV-CU850	Ethernet System Controller	2
WV-CU350	RS485 System Controller	2
WV-ASC8501	Administration Software	1
WJ-CA85L05	0.5 m Multiple Video Cable	8*
WJ-CA85L10	1.0 m Multiple Video Cable	28*
WJ-CA85L15	1.5 m Multiple Video Cable	16*

* Cable Length depends on the cage layout.



System Diagram



System Examples

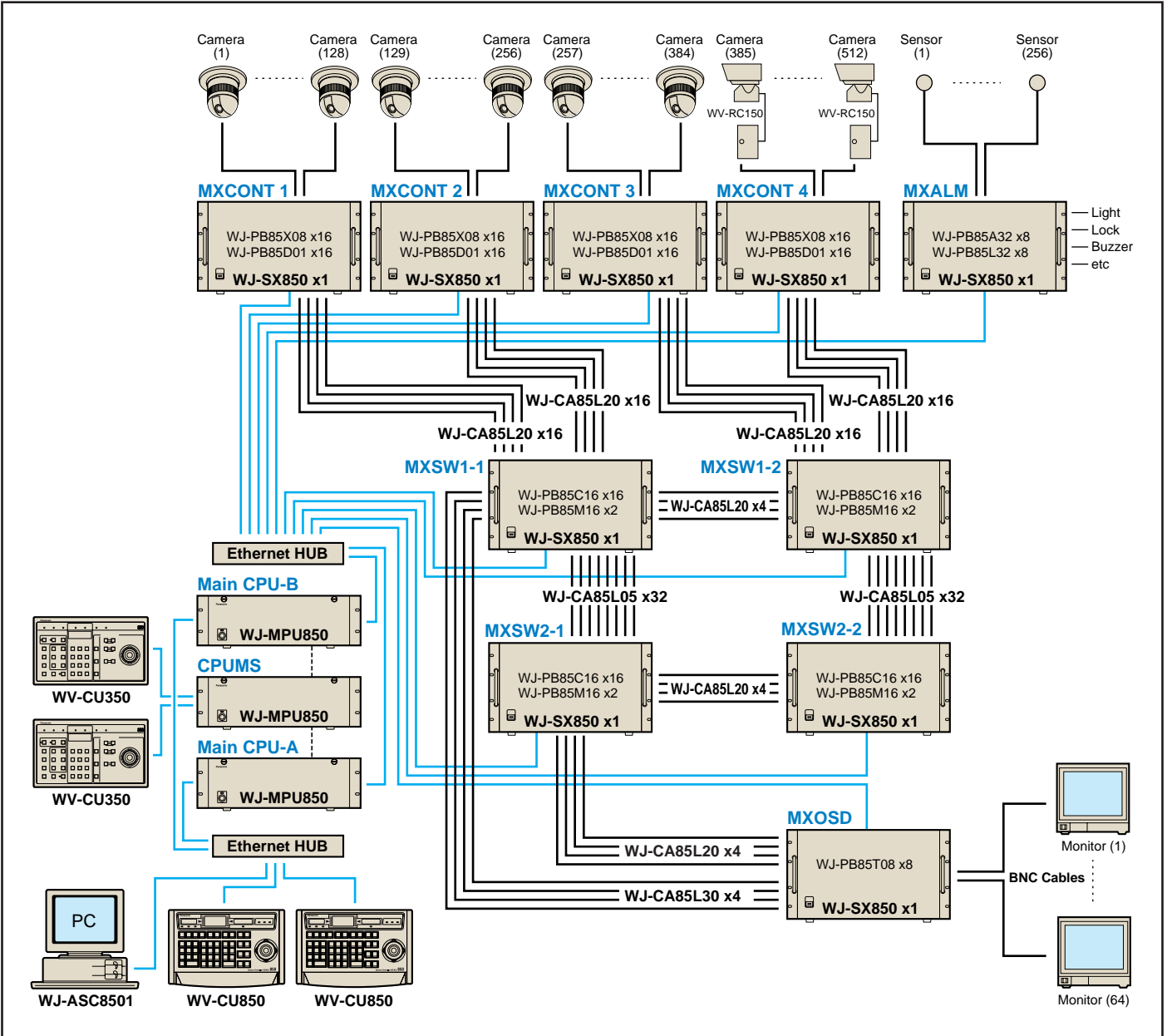
512 inputs x 64 outputs

MODEL No.	Description	Q'ty
WJ-SX850	Card Cage w/PS and LCPU	10
WJ-PB85X08	8ch Multiplex Video Input Board	64
WJ-PB85D01	8ch ANK Character Generator	64
WJ-PB85C16	16ch Video Cross Point Input Board	64
WJ-PB85M16	16ch Video Cross Point Output Board	8
WJ-PB85T08	8ch Monitor OSD Board	8
WJ-PB85A32	32ch Alarm Input Board	16
WJ-PB85L32	32ch Alarm Output Board	16
WJ-MPU850	Standard Main CPU Unit	2
WJ-MPS850	CPU Management Switch	1
WV-CU850	Ethernet System Controller	2
WV-CU350	RS485 System Controller	2
WV-ASC8501	Administration Software	1
WJ-CA85L05	0.5m Multiple Video Cable	64*
WJ-CA85L20	2m Multiple Video Cable	76*
WJ-CA85L30	3m Multiple Video Cable	4*

* Cable Length depends on the cage layout.



System Diagram



Product Components Line-up

<p>Ethernet System Controller WV-CU850</p> 	<p>RS485 System Controller WV-CU350</p> 	<p>Standard Main CPU Unit WJ-MPU850</p> 
<p>Enhanced Main CPU Unit WJ-MPU855</p> 	<p>Card Cage w/PS and LCPU WJ-SX850</p> 	<p>Passive Card Cage WJ-BX850</p> 
<p>8ch Multiplex Video Input Board WJ-PB85X08</p> 	<p>8ch ANK Character Generator Daughter Board WJ-PB85D01</p> 	<p>8ch RS485 Data Communication Board WJ-PB85R08</p> 
<p>8ch Video Loop Through Board WJ-PB85Y08</p> 	<p>16ch Video Cross Point Input Board WJ-PB85C16</p> 	<p>16ch Video Cross Point Output Board WJ-PB85M16</p> 
<p>8ch On Screen Display Board WJ-PB85T08</p> 	<p>32ch Alarm Input Board WJ-PB85A32</p> 	<p>32ch Alarm Output Board WJ-PB85L32</p> 
<p>Administration Software WJ-ASC8501</p> 	<p>Multiple Video Cables WJ-CA85L05 (0.5m) WJ-CA85L10 (1.0m) WJ-CA85L15 (1.5m) WJ-CA85L20 (2.0m) WJ-CA85L25 (2.5m) WJ-CA85L30 (3.0m) WJ-CA85L50 (5.0m) </p> 	<p>CPU Management Switch WJ-MPS850</p> 

• All TV pictures are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

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