

Panasonic®

Matrix System150

M A T R I X

S Y S T E M

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Matrix Switcher
WJ-SX150A



System Controller
WV-CU360C

Sold by:



Controls up to 64 cameras and 4 monitors. The Matrix System150 is compact, high in quality and cost effective.

The new Panasonic Matrix System150 is ideal for small-scale surveillance applications. The Matrix Switcher can link up to 64 cameras, 4 monitors and 4 controllers. It can be combined with our dome cameras providing excellent image quality.

All of the Matrix System150's 64 channels employ Panasonic proprietary coaxial, multiplex connectors. Video signals, control data, synchronous signals (VD2) and alarm signals all travel over a single cable, reducing the number of lines required for camera installation. Cables can be as long as 900m (3,000 feet). This System also supports remote camera control using RS-485 data.

The Matrix System150 is loaded with special features including tour sequencing, alarms, video loss detection, and character displays on the monitor. All features are easy to operate using the WV-CU360C dedicated system controller.

One major feature is the ease of changing system settings using menus displayed on a personal computer. Providing direct control of all device settings as well as user management features, the system administration software bundled with the Matrix System150 imposes no extra burden on system administrators. Access to vital settings data can be restricted to a specified level of user through use of passwords.

The Matrix System150 is ideal for schools, supermarkets, banks, parking lots, warehouses, and correctional facilities. The Matrix System150's small-scale system simplifies operation while providing all the features required for high-level surveillance.



Major Features and Functions

C a m e r a

- Supports up to 64 cameras.
- All 64 channels are coaxial, multiplex cables, reducing the number of cables required and simplifying installation.
- Supports up to 64 RS-485, remote-controlled cameras.
- Pan, tilt and other cameras lens motions can be controlled either by coaxial, multiplex cable or RS-485 remote-control signals.
- Cables can be up to 900m (3,000 feet) long.
- The video loss detection function automatically detects camera malfunctions.

S y s t e m

- All sequence and alarm modes can be adjusted as needed.
- User management features include operator number, password, level, and priority.
- Personal computer screen displays simplify set-up and management of alarm histories.
- Supports up to 80 alarm inputs and four alarm outputs.

M o n i t o r

- Output supports up to 4 monitors.
- Character displays show date, time, camera number, camera title, and event information.
- Alarm history display shows up to 100 most recent alarms.

E x t e r n a l L i n k s

- The RS-485 camera ports allow remote surveillance.
- The RS232C ports enable connection to personal computers or VCRs.



MATRIX SYSTEM150

Sequencing and Alarm. Just Two of Many Features that Support Effective Surveillance.

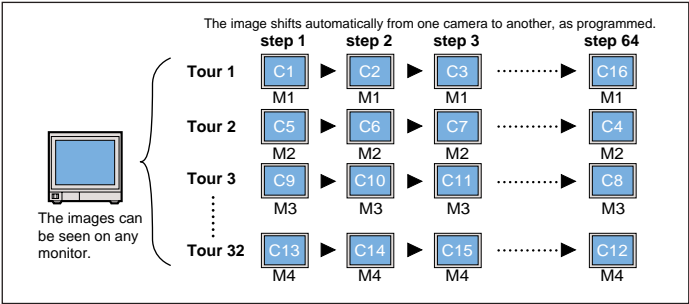


Sequencing Increases Monitoring Efficiency

Pre-set the sequence in which to view an image from a series of different cameras. The WV-CU360C System Controller makes it possible to choose from a variety of sequence patterns with push-button ease. Just select the one that provides the most effective coverage.

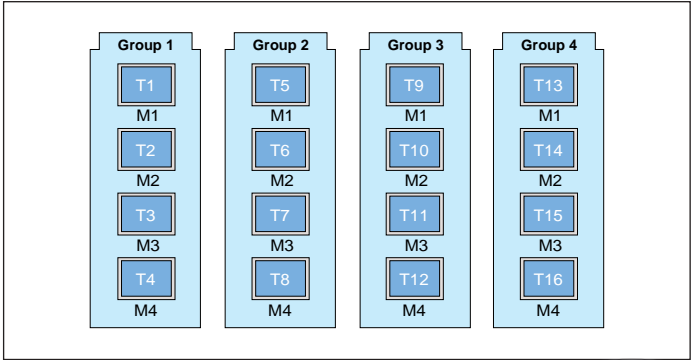
Tour Sequence

The monitor switches automatically, following a pre-set sequence from channel 1 to channel 64. Each sequence can include up to 64 steps, with each step set for from one to 30 seconds in length. In addition, dome cameras can also be pre-set to precisely the viewing angle you need. Up to 32 touring patterns can be stored in memory for easy recall.



Group tour (Simultaneous tour sequencing)

This feature allows you to activate multiple, pre-set tour sequences by pushing a single button. Each group can include up to four separate sequences. Up to four group-tour sequences can be stored in memory.



Instant No-Escape Alarms

Sequence mode (In response to spot alarm)

When the alarm signal is received, the monitor and camera instantly switch to the spot from which it originates. When two or more alarms are received, the system switches instantly to the spot from which the latest alarm originates. Pressing the ACK key switches operator control to the camera from which the alarm was received.

Hold mode (In response to spot alarm)

When the alarm signal is received, the monitor shows the image from the pre-set camera. When two or more alarms are received, the monitor continues to show the image of the spot from which the first alarm was received. Pressing the ACK key switches operator control to the camera from which the alarm was received.

Concerning start of sequence alarm

The system can also be pre-set to start a tour sequence when an alarm signal is received. However, once a sequence begins, a second alarm cannot enter the monitor, as it can in sequence or hold mode.

Most recent 100 alarms display

The monitor display shows up to 100 of the most recent alarms in chronological order, allowing quick confirmation of alarm location, date, and time. Images can be recalled and reviewed with push button ease using the WV-CU360C system controller.

ALARM HISTORY					PAGE	1/2
NO	DATE	ALARM	EVENT	ALARM		
016	2001/08/21 18:59:08	03	ALARM	ACK		
015	2001/08/21 18:58:08	03	ALARM	ACK		
014	2001/08/21 18:57:08	03	ALARM	ACK		
013	2001/08/21 18:56:08	07	ALARM	ACK		
012	2001/08/21 18:54:08	07	ALARM	ACK		
011	2001/08/21 18:53:08	07	ALARM	ACK		
010	2001/08/21 18:53:00	09	ALARM	ACK		
009	2001/08/21 18:52:08	09	ALARM	ACK		
008	2001/08/21 18:51:08	06	ALARM	ACK		
007	2001/08/21 18:50:08	06	ALARM	ACK		

Alarm history management using a personal computer

The alarm log can be output to a personal computer using the RS232C serial port, allowing use of the personal computer to manage alarm histories.

64 Channels are All Transmitted via the Same Coaxial Cable

Video signals, control data, synchronous signals (VD2), and alarm signals are all transmitted over the same coaxial, multiplex cable. Use of the same cable reduces both time and trouble required for camera installation. Each coaxial cable can be up to 900m (3,000 feet) long.

1. Video signal

Transmits the image captured by the camera to the Matrix Switcher.

2. Control data

Transmits settings from the Matrix Switcher to the camera. Allows control of pan, tilt and zoom features of WV-CS854A/WV-CS564/CW864 intelligent dome cameras and, via WV-RC100/WV-RC150 remote control receivers, an external PTZ, WV-CP470/WV-CP240.

3. Synchronous signals (VD2)

Supports almost all Panasonic CCD cameras (see compatible camera list). Allows simultaneous image switching by cameras and the Matrix Switcher, preventing image distortion.

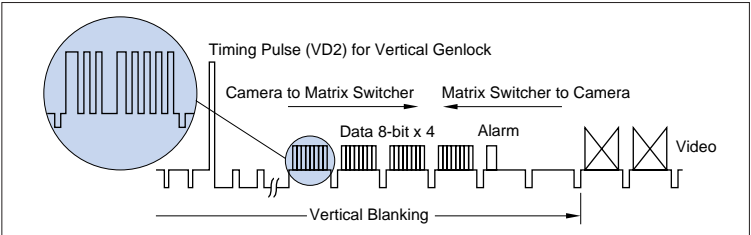
4. Alarm signals

Transmits alarm signals received from the camera to the Matrix Switcher, initiating the pre-set alarm event sequence.

Compatible Panasonic camera list

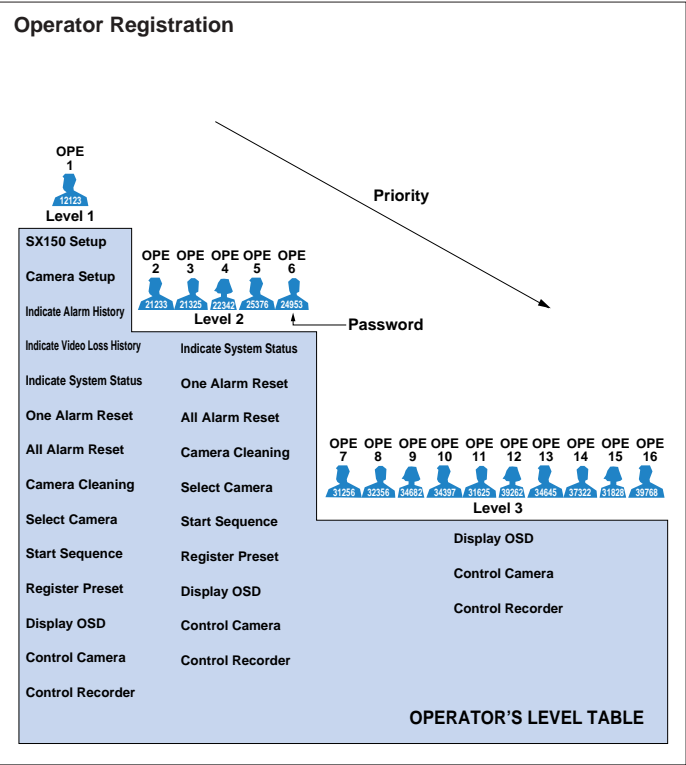
B/W Cameras	WV-BP140 Series, WV-BP330 Series
Color Cameras	WV-CP470 Series, WV-CP240 Series, WV-CL920 Series, WV-CW474 Series
Integrated Dome Cameras	WV-CS854A, WV-CS564, WV-CW864

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



User Management Protects Against Misuse

This system manages user names and other user information for up to 16 users, who may use the controller itself or log in from a personal computer. Matrix System150 operation can be limited by use of five user attributes including operator number, password, label, priority, and the cameras the user is permitted to operate. This user management feature prevents improper use by outsiders or unauthorized persons.



Other Convenient Features

RS-485 Port

Up to 64 cameras can be controlled through the built-in RS-485 ports.

RS232C External Serial Interface

The RS232C port permits system set-up and alarm history management from a personal computer. It also supports time-lapse VCR and other peripherals.

Video Loss Detection automatically senses camera malfunction

This feature automatically senses loss of video signal input and displays a warning on the monitor, allowing speedy response to such problems as power outage, severed camera cables or damaged cameras.

Video Loss History Table

VIDEO LOSS HISTORY					PAGE	1/2
NO	DATE	CH	EVENT	CH		
012	2001/08/21 18:59:08	03	VIDEO RECOVER	14		
011	2001/08/21 18:58:08	14	VIDEO RECOVER	09		
010	2001/08/21 18:57:08	09	VIDEO LOSS	07		
009	2001/08/21 18:56:08	07	VIDEO LOSS	--		
008	2001/08/21 18:54:08	--	SW RECOVER	16		
007	2001/08/21 18:53:08	16	VIDEO LOSS	09		
006	2001/08/21 18:53:00	09	VIDEO LOSS	--		
005	2001/08/21 18:52:08	--	SW RECOVER	06		
004	2001/08/21 18:51:08	06	VIDEO LOSS	01		
003	2001/08/21 18:50:08	01	VIDEO RECOVER			

Monitor Character Displays

Four types of information are displayed on the monitor using the built-in character generator IC.

1. Date and time

Choice of five date styles and 24-hour or 12-hour time displays.

2. Camera title

A label up to 20 characters long can be added to the camera number.

3. Monitor status

Shows monitor number, keyboard number, and sequence status.

4. Event information

Shows time and other information concerning alarm or timed events.

Example of Character Displays



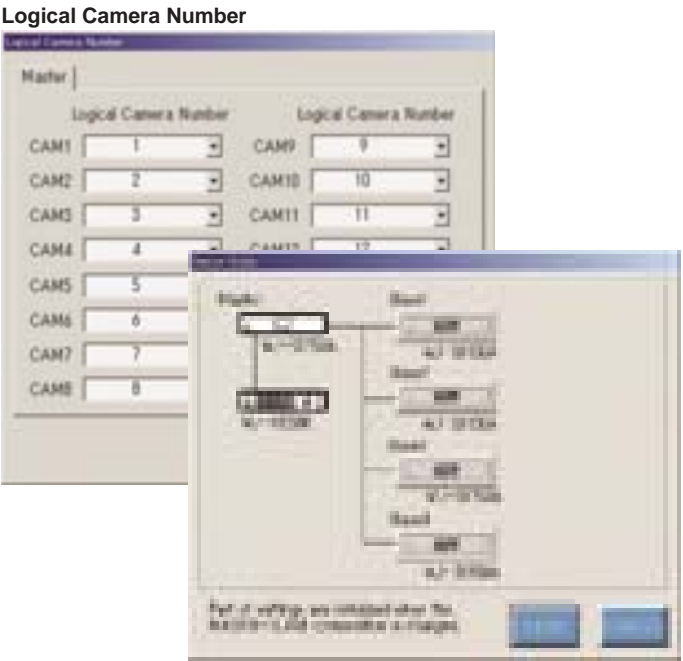
The above photograph was taken for the purpose of this explanation; actual images may differ.

System Configuration is Simple and Trouble-Free.

Simple System Setup from PC System Configuration Software is Included.



The main menu is the heart of System150 Setup Utility.



Master - Slave

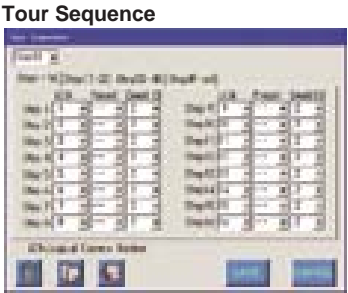
Flexible and Compatible with a Wide Range of Equipment

By combining our WJ-HD500B digital disk recorder with the Matrix System150, you will have a truly cost-effective system package. Adding the high-capacity WJ-HD500B digital disk recorder to the Matrix System150 makes possible the storage and retrieval of long-duration images. The Direct Search Feature allows immediate retrieval of images captured during a certain time of day from a complete list of stored images. Thumbnail Search Feature* makes it easy to identify and retrieve precisely the images needed.

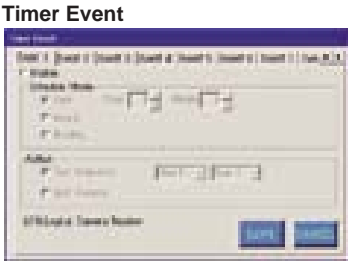
*Requires use of WV-CU50 Remote Controller



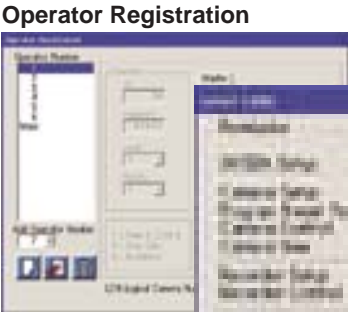
WJ-HD500B Ensures High-quality, Moire-free Images



This window is used to edit a tour sequence. There are 16 tour sequences available, each with up to 16 steps. Each step needs a camera number associated pan/tilt preset position and a dwell time.



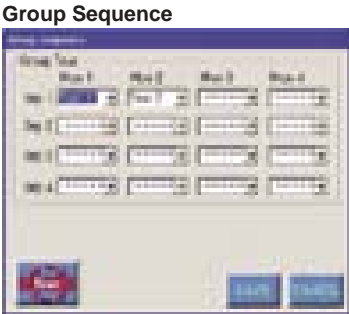
This window can be used to edit the time and type of the action.



This window is used to assign the camera control to the operators, according to their priorities.



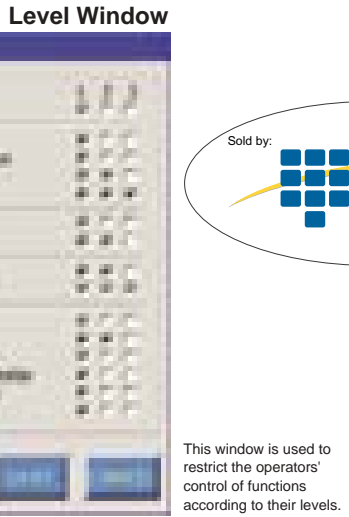
This window is used to restrict the operators' control of functions according to their levels.



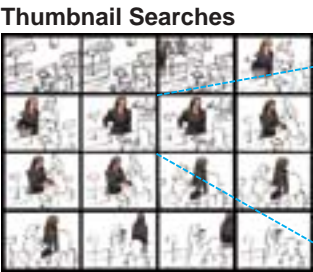
This window is used to edit a group sequence. There are 4 group sequences available, each with up to 4 monitors.



This menu can be used to program which monitor to carry out the spot/tour sequence of which camera, when an alarm signal is input.



This window is used to restrict the operators' control of functions according to their levels.



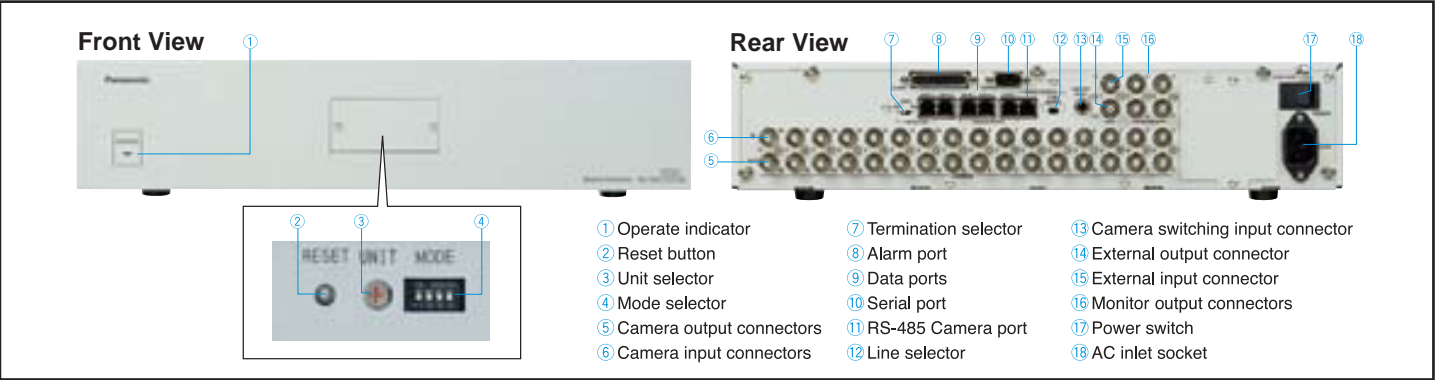
The frame you select expands to fill the whole display. With 2x electronic zoom, you can take a closer look at details.



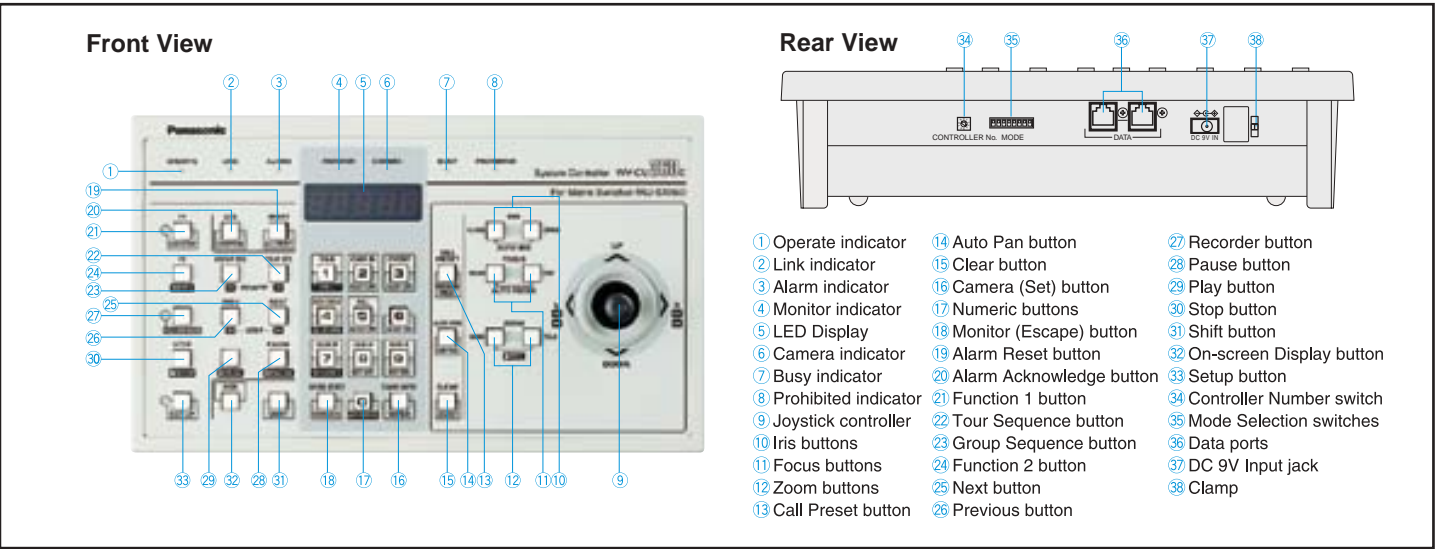
The above photographs were taken for the purpose of this explanation; actual images may differ.

MAJOR OPERATING CONTROLS

Matrix Switcher; WJ-SX150A



System Controller; WV-CU360C



SPECIFICATIONS

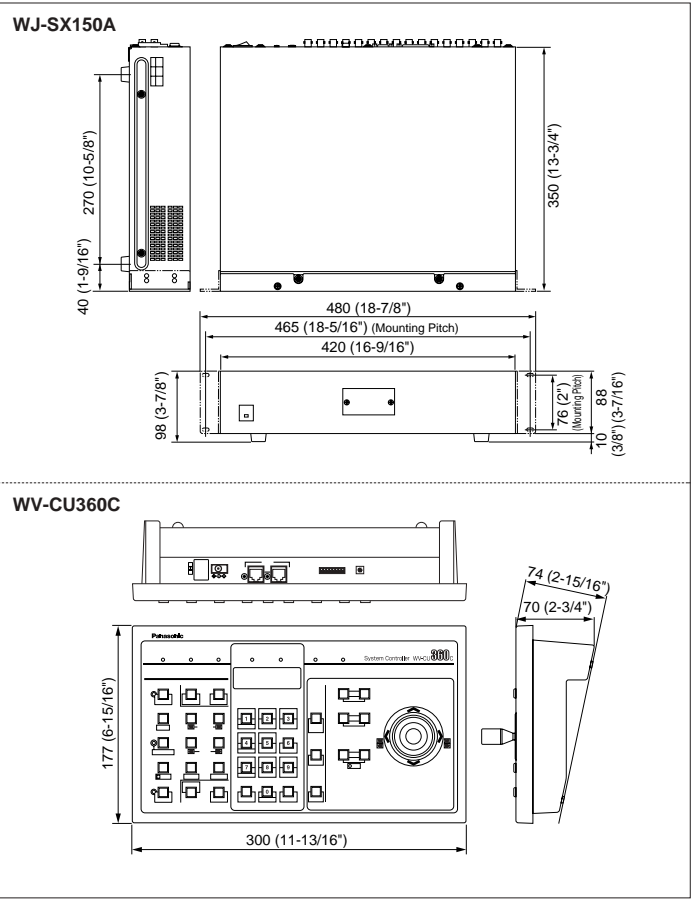
Matrix Switcher; WJ-SX150A

Power Source	120 V AC, 60 Hz
Power Consumption	60 W
Camera Input (1 - 16)	1.0 V[p-p]/75 Ω composite video signal 0.5 V[p-p]/75 Ω data signal and 2.5 V[p-p]/75 Ω vertical timing pulse multiplexed
Camera Output (1 - 16)	1.0 V[p-p]/75 Ω composite video signal
Monitor Output (1 - 4)	1.0 V[p-p]/75 Ω composite video signal
External Input	1.0 V[p-p]/75 Ω composite video signal
External Output	1.0 V[p-p]/75 Ω composite video signal
RS-485 (Camera) Port	RS-485 6-conductor modular jack
Data Port	RS-485 6-conductor modular jack
Alarm Port	25-pin D-sub connector
Serial Port	9-pin D-sub connector
Camera Switching Input	RCA pin jack
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity	Less than 90 %
Dimensions	420 mm (W) x 88 mm (H) x 350 mm (D) (without rubber foot) [16-9/16" (W) x 3-7/16" (H) x 13-3/4" (D)]
Weight (approx.)	6 kg (13.2 lbs.)

System Controller; WV-CU360C

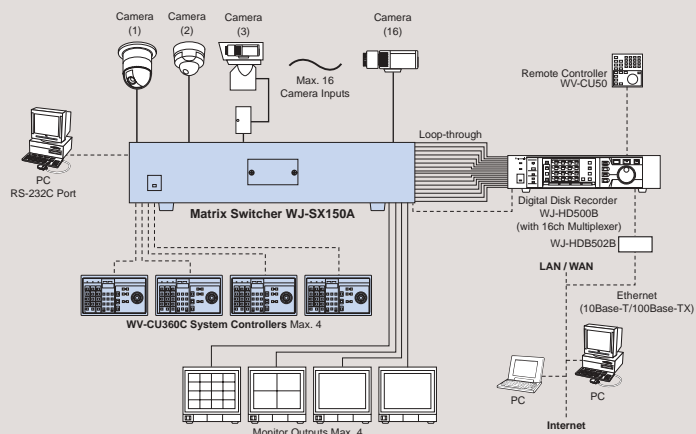
Power Source	9 V DC, 400 mA (Use the supplied AC adapter only.)
Power Consumption	10 W
Data Output/Input Port	6-conductor modular jack (RS-485, Full Duplex)
Monitor Number Selection	1-4
Camera Number Selection	1-16
Camera Main Control	Camera Setup Camera Function
Lens Functions	Iris: Open/Close/Preset (only with DC control lens) Focus: Near/Far/Auto Focus Zoom: Wide/Tele
Housing	Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off
Pan/Tilt	Manual Pan: Right/Left, Manual Tilt: Up/Down, Auto Pan, Auto Sort, Auto Sequence, Preset Position, Home Position, Camera Patrol
System Operation	Camera selection, Alarm (Display/Suspend/Reset), Setup
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity	Less than 90%
Dimensions	300 (W) x 74 (H) x 177 (D) mm [11-13/16" (W) x 2-15/16" (H) x 6-15/16" (D)]
Weight (approx.)	1.3 kg (2.9 lbs.)

APPEARANCE

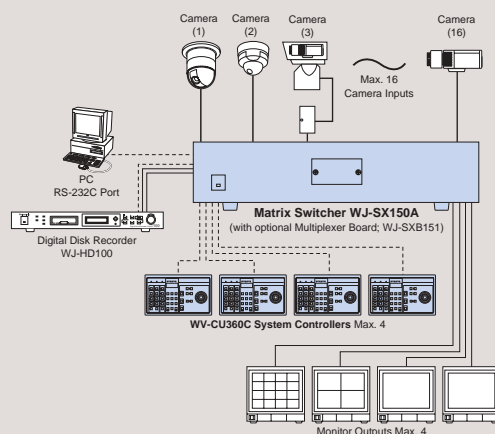


SYSTEM EXAMPLES

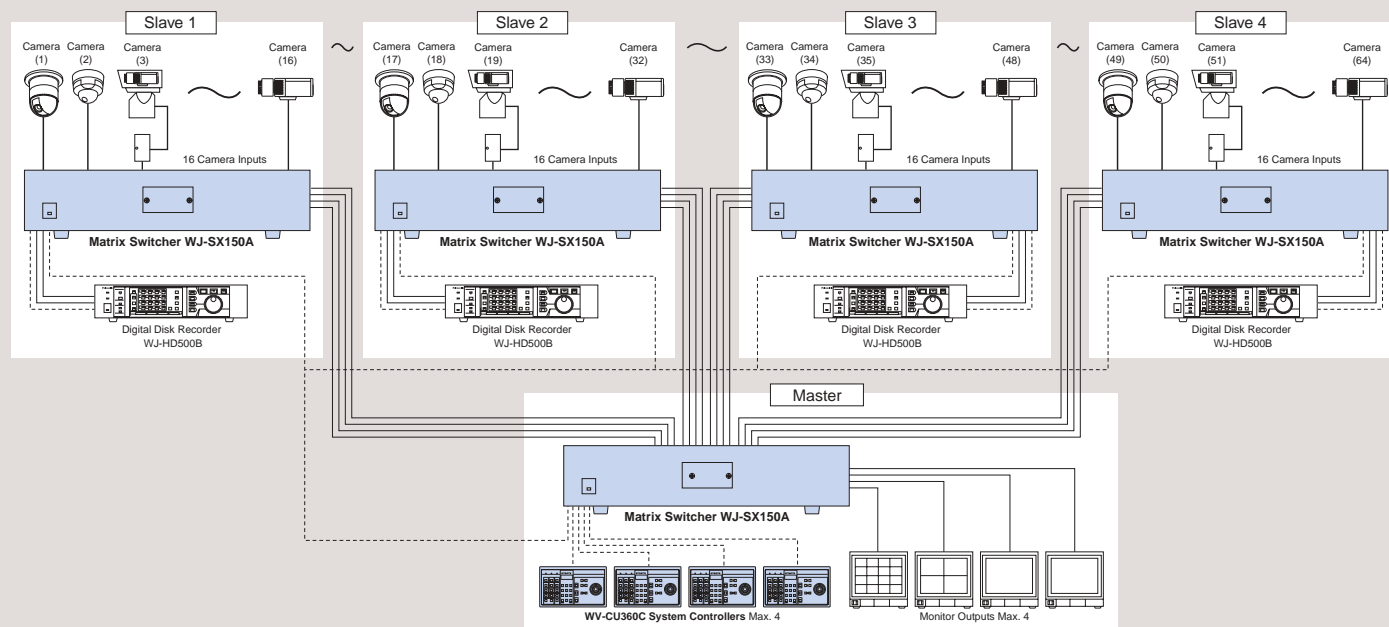
1 with optional Panasonic Digital Disk Recorder; WJ-HD500B



2 with optional Time-Lapse VCR or WJ-HD100

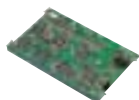


3 support up to 64 Camera Systems



OPTIONAL ACCESSORY & COMPONENTS

Multiplexer Board for WJ-SX150A
WJ-SXB151



Digital Disk Recorder

Digital Disk Recorder with 16ch Multiplexer
WJ-HD500B



Color Surveillance Cameras

Super Dynamic II
Color Dome Camera
WV-CS854A

SDII



Weather Proof &
Vandal Resistant
Color Dome Camera
WV-CW864



Vandal Proof
Super Dynamic II
Color Cameras
WV-CW474 Series

SDII



Super Dynamic II 1/3-type
Color Surveillance Cameras
WV-CP470 Series

SDII



Lens: optional

1/3-type DSP Color CCD Cameras
WV-CP240 Series



Lens: optional

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

Panasonic

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Security & Vision Systems Group

Security Systems

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