Matrix System150

Panasonic_®



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

Camera

- 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.

System

- 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.

Monitor

- 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.

External Links

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

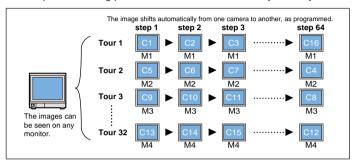
Sequencing and Alarm. Just Two of Many Features that Support Effective Surveillance.

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.

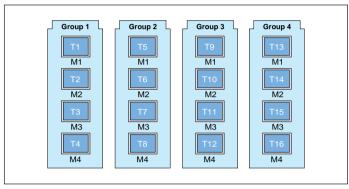
Tour Sequence

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)

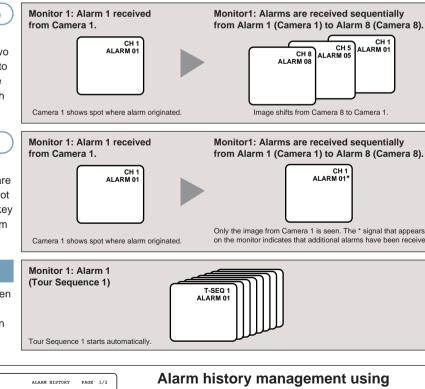
When the alarm signal is received, the monitor shows the image from the pre-set camera. When two or more alarms are received, the monitor continues to show the image of the spot from which the first alarm was received. Pressing the ACK key switches operator control to the camera from which the alarm 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 guick confirmation of alarm location, date, and time. Images can be recalled and reviewed with push button ease using the WV-CU360C system controller.



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)

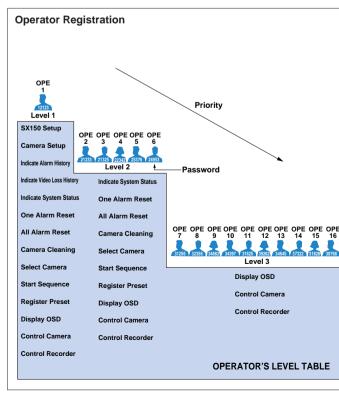
Supports almost all Panasonic CCD cameras (see compatible camera list). Allows simultaneous image switching by cameras and the Matrix Switcher, preventing image distortion.

4. Alarm signals

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

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, lebel, priority, and the cameras the user is permitted to operate. This user management feature prevents improper use by outsiders or unauthorized persons.



B ALARM EVENT 06/21 18.55.08 03 ALARM 078/21 18.55.08 03 ALARM 076/21 18.75.08 03 BLORN 078/21 18.55.08 07 ALARM 078/21 18.55.08 07 ALARM 078/21 18.55.08 07 ALARM 078/21 18.55.08 07 ALARM 078/21 18.55.08 07 RESET 078/21 18.55.08 06 RESET 078/21 18.55.08 06 ALARM 078/21 18.55.08 06 ALARM 078/21 18.55.08 06 ALARM



| Compatible Panasonic came | ra 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 be | en designed and manufactured to accept VD2 signal for system integration. |
| | e (VD2) for Vertical Genlock D Matrix Switcher Matrix Switcher to Camera Data 8-bit x 4 Alarm Data 8-bit x 4 Alarm |



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

| $\left[\right]$ | VIDE | D LOSS HIS | TORY PAGE 1/2 | |
|------------------|------------|------------|------------------|---|
| NO | DATE | | CH EVENT | |
| 012 | 2001/08/21 | 18:59:08 | 03 VIDEO RECOVER | R |
| 011 | 2001/08/21 | 18:58:08 | 14 VIDEO RECOVER | R |
| 010 | 2001/08/21 | 18:57:08 | 09 VIDEO LOSS | |
| 009 | 2001/08/21 | 18:55:08 | 07 VIDEO LOSS | |
| | 2001/08/21 | | SW RECOVER | |
| 007 | 2001/08/21 | 18:53:08 | 16 VIDEO LOSS | |
| 006 | 2001/08/21 | 18:53:00 | 09 VIDEO LOSS | |
| | 2001/08/21 | | SW RECOVER | |
| 004 | 2001/08/21 | 18:51:08 | 06 VIDEO LOSS | |
| 003 | 2001/08/21 | 18:50:08 | 01 VIDEO RECOVER | R |
| | | | | |
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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 diff

System Configuration is Simple and Trouble-Free.

Simple System Setup from PC System Configuration Software is Included.

Main Menu



The main menu is the heart of System150 Setup Utility.

Logical Camera Number

| logi | ol Carnera | Number | Logi | al Camera | Number | | |
|--------|------------|--------|-----------------|-----------|-----------------|------|--|
| CAM1 | 1 | | CAMP | . 9 | • | | |
| CAM2 | 2 | | CAMID T | 10 | • | | |
| CAMS T | 3 | • | CAMIT | -11 | - | | |
| САМА | 4 | - | CANER 1 | 19 | -3 | | |
| CAMS | 5 | 114 | Service Service | | | | |
| CAM6 | 6 | | 5 15 1 | - | - | | |
| CAM7 | 7 | - 12 | 16.000 | | 40 10 10 | ÷ | |
| CAME T | 8 | - 12 | CHART OF | 1.00 | - | 6 | |
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| | | | 1772.73 | | | 1111 | |

Tour Sequence



Group Sequence

Alarm Event

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This window is used to edit a group sequence. There are

4 group sequences available, each with up to 4 monitors.

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This menu can be used to program which monitor to

carry out the spot/tour sequence of which camera.

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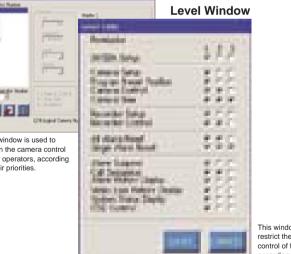
This window is used to edit a tour sequence. There are 16 tour sequences available, each with up to 16 steps. Each step needs a camera number associated pan/tilt preset position and a dwell time.

Timer Event

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|--|-------------------------------|
| Tell'A (South 2 (South 2 (South 2 (South 2 (South 2)))) | and a local state of the Alas |
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| Phone. | |
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| The second second | Contraction of the second |
| All Margini Daven a Master | press press |
| | |

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

Operator Registration



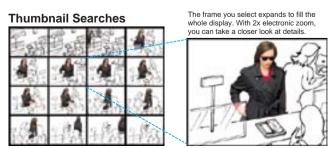
Flexible and Compatible with a Wide Range of Equipment

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

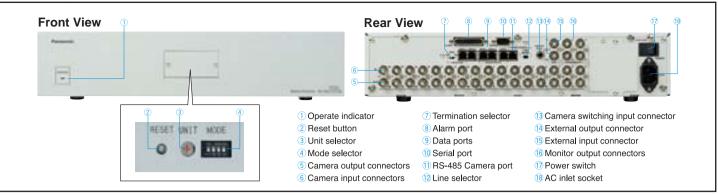
WJ-HD500B Ensures

High-quality, Moire-free Images

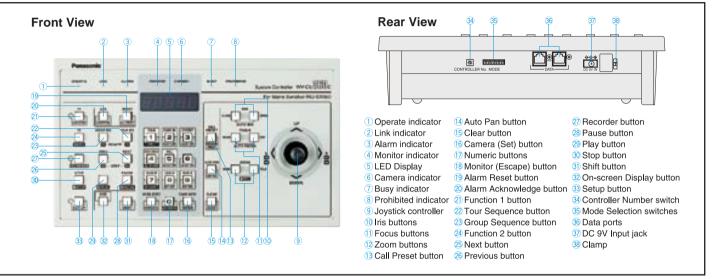


The above photographs were taken for the purpose of this explanation; actual images may diffe

MAJOR OPERATING CONTROLS Matrix Switcher: WJ-SX150A

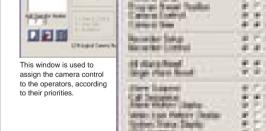


System Controller; WV-CU360C

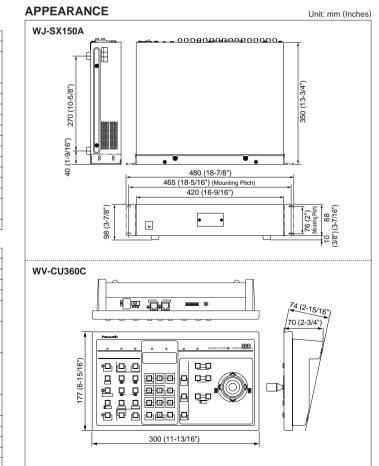


SPECIFICATIONS

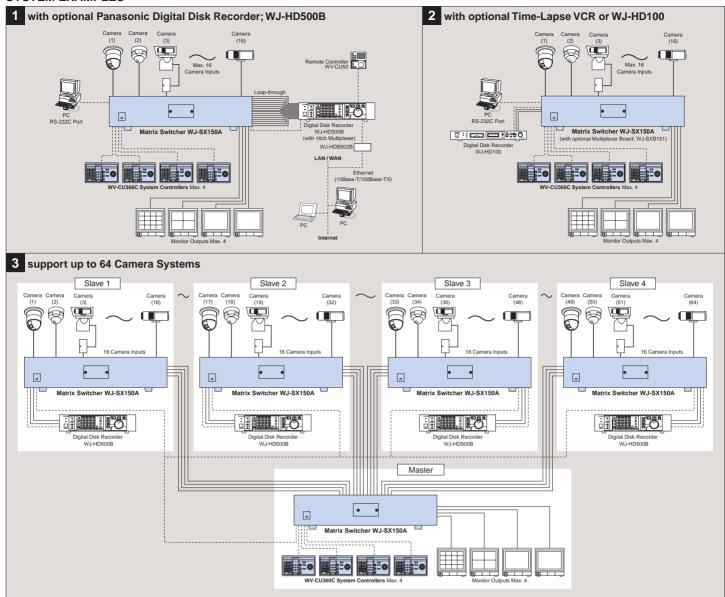
| Matrix Switcher; WJ-S> | |
|---|--|
| Power Source | 120 V AC, 60 Hz |
| Power Consumption | 60 W |
| Camera Input (1 - 16) | 1.0 V[p-p]/75 Ω composite video signal |
| | 0.5 V[p-p]/75 Ω data signal and |
| | 2.5 V[p-p]/75 Ω vertical timing pulse multiplexed |
| Camera Output (1 - 16) | 1.0 V[p-p]/75 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 |
| Housing | |
| Housing | Defroster: On/Off |
| Housing | Defroster: On/Off Wiper: On/Off |
| Housing Pan/Tilt | Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off |
| | Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off Manual Pan: Right/Left, Manual Tilt: Up/Down, Auto Pan, Auto Sort, Auto Sequence, Preset Position, Home Position, Camera Patrol |
| Pan/Tilt System Operation | Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off Manual Pan: Right/Left, Manual Tilt: Up/Down, Auto Pan, Auto Sort, Auto Sequence, Preset Position, Home Position, Camera Patrol Camera selection, Alarm (Display/Suspend/Reset), Setup |
| Pan/Tilt | Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off Manual Pan: Right/Left, Manual Tilt: Up/Down, Auto Pan, Auto Sort, Auto Sequence, Preset Position, Home Position, Camera Patrol |
| Pan/Tilt System Operation | Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off Manual Pan: Right/Left, Manual Tilt: Up/Down, Auto Pan, Auto Sort, Auto Sequence, Preset Position, Home Position, Camera Patrol Camera selection, Alarm (Display/Suspend/Reset), Setup |
| Pan/Tilt System Operation Ambient Operating Temperature | Defroster: On/Off Wiper: On/Off Auxiliary 1: On/Off Auxiliary 2: On/Off Manual Pan: Right/Left, Manual Tilt: Up/Down, Auto Pan, Auto Sort, Auto Sequence, Preset Position, Home Position, Camera Patrol Camera selection, Alarm (Display/Suspend/Reset), Setup -10°C ~ +50°C (14°F ~ 122°F) |



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



SYSTEM EXAMPLES



OPTIONAL ACCESSORY & COMPONENTS



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Security & Vision Systems Group

Security Systems

http://www.panasonic.com/cctv

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