Matrix System 150

**Matrix System 150 Product Components**

- **16 Inputs Matrix Switcher**
  - WJ-SX150A
  - WJ-SX155

- **RS-485 System Controller with 3D-Joystick & Jog/Shuttle**
  - WV-CU650
  - WV-CU360CJ

- **RS-485 System Controller**
  - with 3D-Joystick
  - WV-CU360CJ

- **Support up to 64 Camera Systems**

- **Slave 1**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Slave 2**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Slave 3**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Slave 4**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Master**
  - Window for various display monitoring

- **Slave**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Monitor Outputs**
  - Max. 4

- **Matrix Switcher WJ-SX150A**
  - (with Multiplexer Function)
  - Max. 16

- **Camera Inputs**
  - Camera (1)
  - Camera (3)
  - Camera (16)
  - Camera (2)

- **Digital Disk Recorder WJ-HD316A**
  - (with 16ch Multiplexer)
  - Camera Inputs
  - Camera (17)
  - Camera (19)
  - Camera (32)
  - Camera (18)

- **Matrix Switcher WJ-SX155**
  - (with Multiplexer Function)
  - Max. 16

- **Camera Inputs**
  - Camera (1)
  - Camera (3)
  - Camera (16)
  - Camera (2)

- **Digital Disk Recorder WJ-HD300A**
  - (with optional Panasonic Digital Disk Recorder)

- **Slave 1**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Slave 2**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Slave 3**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Slave 4**
  - WV-CU650
  - System Controllers
  - Max. 4

- **Camera Inputs**
  - Camera (1)
  - Camera (3)
  - Camera (16)
  - Camera (2)

- **Digital Disk Recorder WJ-HD316A**
  - (with 16ch Multiplexer)

**SYSTEM EXAMPLES**

- **64 Inputs Matrix Switcher System**
  - Version 2.03

**Important**

- Safety Precaution: carefully read the operating instructions and installation manual before using this product.

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Printed in Japan (flame retardant)
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 1,200 m. 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-CU650 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 User ID (operator number) and 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 1,200 m 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 VTRs.
Sequencing Increases Monitoring Efficiency

Pre-set the sequence in which to view an image from a series of different cameras. The WV-CU650 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 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 touting patterns can be stored in memory for easy recall.

Group Sequence (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 tour sequences. Up to four group 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.

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 1,200 m long.

1. Video signal

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

2. Control data

Transmits control data from the switcher to the cameras that are compatible with Panasonic coaxial control system. Transmits alarm signal from the cameras to the switcher.

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 System 150 operation can be limited by five user attributes including operator number, password, level, 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 VTR 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.
System Configuration is Simple and Trouble-Free.

Flexible and Compatible with a Wide Range of Equipment

The Matrix System150 can be connected to a WJ-HD300A Series Digital Disk Recorders equipped with a high-capacity hard disk drive to construct a featured-loaded system for long-duration recording of multiple types of high-quality images. The Filtered Search function supports searches using multiple date/time and camera channel criteria. The Playback VMD function instantly identifies scenes with motion, making it simple to find and playback critical scenes buried in large amounts of image data. Search results can be displayed as thumbnails.

Viewing and Recording Enhancement with WJ-SX155

• Quad, 9 split screen, 16 split screen for Live or Playback.
• Real time refresh in live Quad screen.
• Minimum 2 fields switching for multiplex recording.
• Camera switch input for external switching.

VMD: 4 Areas, 3 Levels x 16CH.
**SYSTEM EXAMPLES**

1. **With optional Panasonic Digital Disk Recorder; WJ-HD316A Series**
   - 64 Inputs Matrix Switcher System
   - Matrix System 150
   - RS-485 System Controller
     - with 3D-Joystick & Jog/Shuttle
     - WV-CU650
   - Version 2.03

2. **With optional Single Channel Recorder**
   - 64 Inputs Matrix Switcher System
   - Matrix System 150
   - RS-485 System Controller
     - with 3D-Joystick
     - WV-CU360CJ

3. **Support up to 64 Camera Systems**

**MATRIX SYSTEM 150 PRODUCT COMPONENTS**

- 16 Inputs Matrix Switcher
  - WJ-SX150A

- 16 Inputs Multiplexer Integrated Matrix Switcher
  - WJ-SX155

- RS-485 System Controller with 3D-Joystick & Jog/Shuttle
  - WV-CU650

**Important**

- 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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