**Digital Disk Recorders**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>WJ-HD309</td>
<td>9ch Camera Input</td>
</tr>
<tr>
<td>WJ-HD316</td>
<td>16ch Camera Input</td>
</tr>
</tbody>
</table>

**System Controllers**

- WV-CU360C

**System Switchers**

- WJ-SX150A

**Camera Series**

- WV-CP470 Series
- WV-CP240 Series
- WV-CF224
- WV-CW474 Series
- WV-CW244 Series

**Optional Components**

- Super Dynamic II Color Dome Camera
- Weather Proof & Vandal Resistant Color Dome Camera
- Compact Color Surveillance Camera
- 1/3-type DSP Color CCD Cameras
- Vandal Proof Super Dynamic II Color Cameras

**System Examples**

1. **Basic System Configurations**
   - With optional Panasonic Matrix System 150
   - 4.8TB Capabilities with Optional Extension Unit & HDDs

2. **Up to 4.8TB Capabilities**

**Standard Product Configurations**

- Digital Disk Recorder
- Matrix System 150
- Monitor Output
- Video Y/C Output
- VCR
- CD-R/DVD-R

**Optional Component**

- Super Dynamic II Color Dome Camera
- Weather Proof & Vandal Resistant Color Dome Camera
- Compact Color Surveillance Camera
- 1/3-type DSP Color CCD Cameras
- Vandal Proof Super Dynamic II Color Cameras

**Matrix System 150**

- Max. 4 System Controllers
- Max. 4 Camera Inputs
- Monitor Outputs Max. 4

**System Controller**

- WV-CU360C

**System Controller**

- WV-CU360C

**Security Systems Group**

- Panasonic Digital Communications & Security Company

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**Specifications Subject to Change**

- 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.
The WJ-HD300 Series offers high quality picture and disk saving recording by featuring a new compression technology.

Panasonic presents the new WJ-HD300 Series with a unique new system featuring a high compression ratio of 1/30 for practical use. Under the concept of "All-in-One Solution," all the factors required for a surveillance recorder are condensed into one unit. With one single unit, unprecedented highly reliable surveillance recording is possible in a wide range of applications. Furthermore, it also features System Scalability to comply with extended user needs.

1/30 Super Compression: Proprietary Algorithm, Core Development of the WJ-HD300 Series

- New algorithm divides entire screen into high and low frequency elements to reduces artificial distortions and noise compared to a conventional compression.
- In addition in the mode-A compression data calculation within a four (4) fields images, called "Temporal Transforms", outputs data according to amount of movement: "No movement", "Slow speed movement", "Medium speed movement" and "High speed movement". Redundant data could be reduced through this process for compression.

Quality of the Picture & Disk Saving

Compared to a conventional algorithm, the data compression ratio has improved approximately 1.5 ~ 2, depend upon object and compression mode.

By Pursuing Simplicity and "by instinct" operation, the function base layout of the WJ-HD300 Series front panel is designed for ease-of-use. Eight (8)* directly connected Panasonic dome cameras can be controlled from the front panel. Also, the GUI base menu screen enables quick set up for flexible, complex operations.

(* Six (6) cameras for the WJ-HD309)

The Latest Value Added Features

The WJ-HD300 Series is equipped with the latest value added features to satisfy your requirements such as system reliability, operation efficiency, and cost savings.

Features include:
- High-density recording: 60 ips* (120 ips* @SIF)
- Full rate live multi screen: 60 ips*
- Simultaneous Live/Rec./Playback/Network
- 16 independent recording profiles
- Disk partitioning: Normal, Alarm, and Copy
- RAID 5 and mirror redundant recording
- Advanced VMD (Video Motion Detector): Area, direction, and vector.
- Various Network Operations: Live, PTZ control, Recording, Playback, and Downloading
- Network and serial open architecture

(* ips = image per second)
Superior surveillance made possible by state-of-the-art digital features.

**High-Refresh Rate Recording**
High-speed digital processing enables high-refresh rate recording — you will not miss that crucial moment.

**Full Rate Live Multi Screen**
Even when images from multiple cameras are displayed on a multi-screen, you can achieve live monitoring of all cameras at full rate of 60 ips (image per second). Experience real-time, full surveillance with full-rate video images.

**16 Independent Recording Profiles**
Flexible recording setup
Independent recording settings (recording mode/recording rate/picture quality) for each 16 cameras enables flexible setup.*16 cameras for the WJ-HD300 and 8 cameras for the WJ-HDE300.*
- Recording mode: Manual / Schedule / Event / Emergency
- Recording rate: Set the ips as needed.
- Picture quality: Super Fine / Fine / Normal / Extended

**User-friendly setup**
The user-friendly GUI supports easy and smooth setup while confirming current status graphically.

**Filtering Search (Example)**
Various parameters/filters such as time & date, camera channel, REC events, text and VMD enables instant search and playback from mass recorded data.

**Disk Management**
Hard Disk Partitioning Function automatically selects the partition to be recorded.
The hard disk is divided into three partitions, "Normal Recording," "Event Recording," and "Copy." Image data will be automatically recorded to the appropriate partition according to the recording mode. For the normal recording partition, the data is overwritten when the capacity is full, for the event recording partition, overwriting is prohibited to protect data, copy partition is prepared for data retrieval to external medium.

**RAIDS / Mirroring Function**
RAIDS distributes image data to multiple hard disks in the extension unit. Upon hard disk breakdown, lost data can be restored from other hard disks. In case of using one WJ-HD300 unit, mirroring function is available for data backup.

**Advanced VMD**
A new mode is added for sophisticated VMD detection.
Playback VMD
One VMD area can be set on playback images for motion search.

**Live / Recording / Playback / Network Simultaneous Performance**
By adopting high speed signal processing, live / recording / playback / network can be operated simultaneously.

**Instant Search and Playback**
Filtering Search
Various parameters/filters such as time & date, camera channel, REC events, text and VMD enables instant search and playback from mass recorded data.

**Thumbnaill Display**
In addition to search result by "list" "thumbnail" display is available for visual confirmation.
**STANDARD PRODUCT CONFIGURATIONS**

<table>
<thead>
<tr>
<th>Digital Disk Recorder</th>
<th>Optional Component</th>
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<tbody>
<tr>
<td>WJ-HD316</td>
<td>WJ-HDE300</td>
</tr>
<tr>
<td>WJ-HD309</td>
<td></td>
</tr>
</tbody>
</table>

- 9ch Camera Input
- Built-in 160GB HDD Unit
- 1 drive bay for optional HDD Unit
- 16ch Camera Input
- Built-in 160GB HDD Unit
- 1 drive bay for optional HDD Unit

**SYSTEM EXAMPLES**

### Basic System Configurations

- WV-CS854B x 8
- WV-CP470 x 8
- Color Monitor x 2

### Up to 4.8TB Capabilities with Optional Extension Unit & HDDs

- WV-CS854B x 8
- WV-CP470 x 8
- Color Monitor x 2

**OPTIONAL COMPONENTS**

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**COLOR SURVEILLANCE CAMERAS**

- Super Dynamic II Color Dome Camera
- WV-CS854B
- WV-CP254H
- WV-CP244H

**Vandal Proof**

- Super Dynamic II Color Dome Cameras
- WV-CW864A
- WV-CW244 Series

**OPTIONAL COMPONENTS**

- Compact Color Surveillance Camera
- WV-CW244 Series

**SYSTEM EXAMPLES**

### With optional Panasonic Matrix System 150

- WV-CS854B x 8
- WV-CP470 x 8
- Color Monitor x 2

### MAXIMUM CAPABILITIES

- Camera Inputs: Max. 16
- Camera Outputs: Max. 16
- Monitor Outputs: Max. 4

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**WJ-HD300 SERIES Digital Disk Recorders**

WJ-HD316
WJ-HD309