

# External Storage Device

**Writes To: DVD-RAM, DVD-R, CD-R**

**For Use With: WJ-HD300 DVR Series and  
HYBRid Recording Servers**

## EX-DVD

### **PRODUCT FEATURES:**

- 3X Speed DVD-RAM Writing
- 4X Speed DVD-R Writing
- 1X Speed DVD-RW Writing
- 12X Speed CD-R Writing
- 8X Speed CD-RW Writing
- 32X Speed CD-ROM Reading
- 12X Speed DVD-ROM Reading
- Buffer Under Run Protection
- DVD Multi Read/Write Support

### **DATA CAPACITY:**

4.7GB (single side DVD only)

### **INTERFACE:**

USB 2.0

### **BUFFER MEMORY:**

2MBytes

### **ERROR RATE:**

Soft Read Error: Less than  $10^{-9}$   
Hard Read Error: Less than  $10^{-12}$

### **POWER REQUIREMENTS:**

Voltage: DC+5V  $\pm$  5%  
DC+12V  $\pm$  1 0%

### **ENVIRONMENTAL TEMPERATURE:**

Operating: 5~45°  
Storage: -30~65°

### **RELATIVE HUMIDITY:**

Operating: 10~80% (No condensation)  
Storage: 5~90% (No condensation)



### DESCRIPTION:

Panasonic's model **EX-DVD** is an external digital archiving solution that further enhances the performance and efficiency of the Panasonic **WJ-HD300** digital video recorder series and HYBRid recording servers. The unit offers the versatility to record in DVD-RAM, DVD-R and CD-R formats and connects easily via a standard USB 2.0 port. Archived images can be played back in their native formats on standard PCs. Native image files are also ideal for FTP downloading via direct or network connections and for viewing from external storage devices.

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## BID SPECIFICATIONS

### External DVD-RAM / DVD-R Storage Device

#### a. General Requirements

- 1) Furnish the following products from the Panasonic Digital Communications & Security Company or noted or approved substitute manufacturers. Furnish Model EX-DVD External DVD-RAM/DVD-R/CD-R Storage Device.
- 2) Product shall be specifically designed to provide external, removable rewritable storage of digitally recorded video data on approved 4.7GB Single Sided DVD-RAM media, external, removable "write once" storage on approved 4.7GB DVD-R Media or external, removable "write once" storage on approved 700MB CD-R Media.
- 3) All components of the CCTV System shall be rated for the intended use. Verify that all Closed Circuit Television and related system components provided are at or above the relative product technology rating levels at the time of publishing of this specification. The installing Security Subcontractor is responsible to furnish the highest featured and rated product possible at shop drawing approval timeframe, as compared with the relative product technology level at the time of this published specification.

#### b. Compatibility with Digital Video Recorders, Recording Systems

- 1) Product shall be compatible to High Speed Serial Interface on either Panasonic Model WJ-HD316/309 Series Digital Video Recorder or HYB series Hybrid Recording Servers

#### c. Disk Maintenance function on Digital Video Recorder

- 1) Product shall be compatible with formatting procedure on Panasonic Model WJ-HD316/309 Series Digital Video Recorder or HYB series Hybrid Recording Servers
- 2) Up to two (2) Model EX-DVD Storage Devices shall be able to be connected to the Panasonic Model WJ-HD316/309 Series Digital Video Recorder.
- 3) Furnish a menu dedicated to data formatting of approved media for up to two (2) Model EX-DVD Storage Devices. Use of Windows format procedure shall not be acceptable for Digital Video Recorder.

#### d. Data Copy function on Digital Video Recorder

- 1) Product shall be compatible with data copying procedure on Panasonic Model WJ-HD316/309 Series Digital Video Recorder or HYB series Hybrid Recording Servers
- 2) Up to two (2) Model EX-DVD Storage Devices shall be able to be connected to the Panasonic Model WJ-HD316/309 Series Digital Video Recorder.
- 3) Furnish a menu dedicated to data copy of approved media for up to two (2) Model EX-DVD Storage Devices. Use of Windows copy procedure shall not be acceptable for Digital Video Recorder.
- 4) Product shall accept automatic copy of alarm data for the Panasonic Model WJ-HD316/309 Series Digital Video Recorder.
- 5) Automatic copy of alarm data from Panasonic Model WJ-HD316/309 Series Digital Video Recorder to Panasonic Model EX-DVD Storage Device shall support automatic disk full warning notification to an SMTP email address when a storage threshold of the removable EX-DVD media is reached. This warning shall be supported by two EX-DVD Storage Devices.

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**Panasonic Digital Communications & Security Company**  
Unit of Matsushita Electric Corporation of America  
**Security Systems**

Executive Office: Three Panasonic Way, Secaucus, NJ 07094

Zone Offices:

Eastern: Three Panasonic Way, Secaucus, NJ 07094 (201) 392-4546

Southern: 1225 Northbrook Parkway, Suwanee, GA 30024 (770) 338-6843

Central: 1707 North Randall Road, Elgin, IL 60123 (847) 468-5211

Western: 6550 Katella Avenue, Cypress, CA 90630 (714) 373-7840

[www.panasonic.com/security](http://www.panasonic.com/security)