



## Features

Record up to 48 Cameras +IP  
Store up to 10TB of Data

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HP Industry Standard Open  
Architecture

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Redundant Power Supplies  
Hot Swap Hard Drives

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RAID 5 std., Rack Mountable

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H.264 Recording - 4CIF @ 30  
fps Real Time Recording

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Hybrid Recording - Analog  
and IP camera operability

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HP 3 Year Warranty Options  
8x5 Next Business Day or  
24x7 4 hr On-site

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## HPpbA HP-SD Plus+ Series DVR

Keep everything you like about the HPpbA HP-SD Series DVR. The HP engineered compact form factor, H.264 real time recording, the low cost and the value of a high performance Hybrid Digital Video Recording System. Then take the most important features that separate the HP-SD DVR from the Enterprise series HP-HD DVR and you get the new and improved and powerful HP-SD+.

We add the reliability of redundant power supplies; this protection keeps the DVR recording if there is a power supply failure. It alerts you to the problem and the power supply can be replaced without ever shutting the DVR down, which means no interruption of recording. Perfect for those critical application environments where you need that extra level of HP dependability.

Next we address the other important issue with DVR's, loss of Recorded Video. We add the HP designed RAID 5 Controller and Hot Swap Drive Bays to the system, which allows for the failure of a hard drive without the loss of the all important recorded video. The system alerts you to the failure of the drive and you replace it without ever shutting the DVR down. Just that simple and most importantly, keep all the video you have already recorded. RAID 6 is available as an option to keep a hot spare in the server.

The other good news is that the HP-SD+ pricing is right between the cost of the HP-SD and the HP-HD. That gives most of the important features of the Enterprise HD system at a very attractive price point per camera, with HP reliability built in.

This solution is best suited for most medium to large sized recording environments, up to 64 analog cameras + IP and 10 TB's of storage. It comes rack-mount ready and is simple to install and configure out of the box. The HP-SD+ Series includes our easy-to-use Airship software, with a long list of powerful features including Alarm/Relay, PTZ, space-saving Motion Detection, and advanced playback and search. Use the included Airship Client to manage hundreds to thousands of cameras together, IP or analog all on rock solid HP award winning servers.

## HP-SD+ Series DVR

### PRECONFIGURED 16-CHANNEL MODELS

SD+1601	1 TB Storage up to...
SD+1612	12 TB Storage

### PRECONFIGURED 32-CHANNEL MODELS

SD+3201	1 TB Storage up to...
SD+3212	12 TB Storage

Larger and Customized configurations are also available...

### TECHNICAL SPECIFICATIONS

#### GENERAL

All Components are RoHS Compliant	
Power Consumption	750watts Max 460 watts Nominal
Input Voltage	100 to 240 VAC
Heat Output	2892btu/hr Max
Operating System	Windows Server 2008
Operating Temperature	10° to 35° C (50° to 95° F)
Non-operating Temp.	-30° to 60° C (-22° to 140° F)
Op. Relative Humidity	10% to 90% non-condensing
Non-op. Rel. Humidity	10% to 95% non-condensing
Dimensions H x W x D	5U, 7.87 x 16.81 x 24.13 in
Weight at Max Capacity	66Lb
Chassis	1.2mm sheet metal

#### DVR SPECIFICS

Video Compression	H.264 hardware compression
Analog Video Inputs (NTSC & PAL)	16 / 32 /48 - CIF, 2CIF, DCIF 4CIF channels
Analog Audio Inputs	16 up to 48 channels
IP Video Inputs	Up to 32 additional IP channels
Storage Capacity	1 TB up to 12 TB RAID 5 w/Optional RAID 6 available
VGA Outputs	1 VGA
Alarm Input Terminals	16 w/ optional I/O Module
Relay Output Terminals	16 w/ optional I/O Module
RS-422/485 Terminals	1
Remote Administration	Monitor and configure via TCP/IP and Airship Client
Memory	4 GB
CD-ROM	CD-R/W DVD+-R/W dual layer
OS Hard Drive	Mirrored OS SATA Drives
Storage Drives	HP 1TB or 2 TB SATA Enterprise series drives
Video Encoder Cards	H.264 encoder

#### RECORDING RESOLUTIONS

Resolution	NTSC, PAL
4CIF	704x480, 704x576
DCIF	528x320, 528x384
2CIF	704x240, 704x288
CIF	352x240, 352x288
QCIF	176x120, 176x144

#### CONNECTIONS

Camera Inputs	BNC via DB15 adapter
Audio Inputs	BNC via DB15 adapter
Video Monitor	1x DB15
Gigabit Ethernet	RJ-45 x 2
Keyboard & Mouse	USB or PS/2
USB 2.0 Ports	6 Total Ports
Audio Output	1/8" stereo jack
Parallel Ports	1x ECP / EEP
Serial Ports	1x Fast UART 16550

#### MAXIMUM RECORDING FRAME RATES

Model SD-16XX Record Modes Up To:  
16 channels at 480 fps at CIF, 2CIF, 4CIF + IP channels

Model SD-32XX Record Modes Up To:  
32 channels at 960 fps at CIF, 2CIF, 4CIF + IP channels

Model SD-48XX Record Modes Up To:  
48 channels at 1440 fps at CIF, 2CIF, 4CIF + IP channels

DCIF recording also available at varying frame rates. Up to 32 IP channels additionally available with the analog channels

#### WARRANTY

HP 3 year Monday-Friday 8-5 Next Business Day On-site  
Options are available for 24x7 4 hour On-site and 5 year protection.