



Solutions

RAID 5 std., RAID 6 optional

Hot Swap Hard Drives

Redundant Power Supplies

H.264 Recording

4CIF @ 30 fps Real Time
Recording

Record up to 48 Analog
Cameras + up to 16 IP

Hybrid Recording, Analog and
IP Cameras Together

HPpbA HP-SD Plus+ Series DVR

Take everything you like about the HPpbA HP-SD Series DVR and keep that. Keep the compact form factor. Keep the H.264 real time recording. And keep 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, so if there is a failure of a Power Supply, the redundant one keeps the DVR recording. It alerts you to the problem and the Power Supply with the problem 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 reliability.

Next we address the other important issue with DVR's, loss of Recorded Video. We add RAID 5 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 Hard Drive, and you replace it when is most appropriate for you and most importantly, keep all the Video you have already recorded. And RAID 6 is available as an option.

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.

HP-SD+ Series DVR

The solution best suited to most small to medium-sized environments. Rack-mount ready and a breeze to install and configure. 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 Airship Client to manage thousands of cameras on your servers.

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 360 watts Nominal
Input Voltage	100 to 240 VAC
Heat Output	2892btu/hr Max
Operating System	Windows 7
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 16 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	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. 64ch total recording maximum per server