5P1604-series HVR
i3 Part# 5P1604

Features

- Versatile Wallmount- and Rackmountable design
- 16 analog + 4 IP cameras (upgradeable to 32 IP)
- 16 loop-out video outputs
- 16 IEEE 802.3at Power over Ethernet ports
- 2 sensor inputs and 2 control outputs
- Solid state hard drive 30GB
- Recording rates up to 480/400 fps (NTSC/PAL) at CIF
- Slim DVD-RW
- High-Speed Networking and Jumbo Frames Support
- Web Smart Software Features
- Embedded OS
- CMS Support
- Keylock access to front panel
- Video analytics support, up to 16 video channels
- Removable hard drive case
- Multiplexed or spot outputs

Application & Benefits

i3s new wall/rack-mount chassis is an innovative All-In-One model designed to expedite new installations with the simplicity of the built-in PoE (Power over Ethernet) switch. This new chassis line is engineered to meet the current market demand for simplicity and added value. Depending on the installation requirements, the 5-Series chassis can be wall-mounted, especially in locations where space is limited or rack-mounted in a server room. The 5-series chassis are used for both hybrid and network video recorder models.

The 5-series chassis comes with a 16 port 10/100/1000Base-T Front PoE+ with 1 internal 1000Base-T uplink Gigabit Web Smart Ethernet Switch. It features 16 IEEE 802.3at PoE ports, which supply up to 30 watts per port. The built-in switch can deliver power through existing LAN cable to power up IEEE 802.3at compliant network accessories. It also features PoE awareness to verify whether the network device receiving power is IEEE 802.3at compliant. If not, only the data will be sent through LAN cable. The built-in PoE works seamlessly with i3-brand IP cameras and is ready to accept jumbo frames to improve network utilization of large file transfers. The built-in switch utilizes Web-interface, where an administrator can set up VLANs to segregate traffic, QoS to prioritize mission-critical data, PoE Control to enabled/disable the power delivery and check the status of the connected power devices.

The 5-series units come with 3 NIC ports, where the first NIC is used to connect to WAN (Internet), the second can be used for a separate LAN (additional switch), allowing users to add even more IP cameras, and the third internal NIC port is connected to the built-in 16-port PoE switch.

The 5-series units come with a 30GB mSATA solid state OS drive and support up to three (3) removable storage hard drives for a total of 3, 6 or 9TB of video storage, depending on the size of individual drives. The implementation of the mSATA solid state operating system drive helps the stability of the OS and reduces the unit boot up time to less than a minute. The 5-series is an all-in-one chassis built with the flexibility in mind to fit the varied needs of i3s customers. The units from these series come with 3 year parts and 1 year labour warranty.

Recommended Accessories:
DVI-I - VGA video adapter for VGA monitors (included)
DVI-D - HDMI video adapter for HDMI monitors.
DisplayPort - HDMI video adapter for HDMI monitors.
If using iDisplay: Add on VGA SAPPHIRE RADEON HD5450, HD6450 and HD6770

Recommended Products:
- Ax501
- Ax504
- Ax516

Recommended Products

FC CE RoHS ISO 9001:2008 REGISTERED

International Standards Organization Registered Firm; ISO 9001 Quality System

L-NSARK-PI
L-NSARK-PI Pre-Installed SATA Box

L-NSAARRK
L-NSAARRK 2nd SATA Back Box

WM-BRK
WM-BRK Wallmount Bracket

1TB-UG
1TB-UG Additional 1 x 1 TB Hard Drive -Total 2TB

IN2TB-UG
IN2TB-UG Upgrade 1st Internal drive to 2TB hard drive (from 1TB)

For design help, accessories or pricing, please contact:
sales@avsupply or call: 1-858-565-1101

Software Configuration	
Number of analog channels	16
Number of VideoLogix channels	up to 16
Number of VisionCount channels	up to 16
Other IP and megapixel cameras supported	Refer to i3international.com
Recording modes video analytic (VAR)	up to 16 (may require HW upgrade)
Recording modes (Time/Date - with time zone ref., sensor, motion detection, or continuous)	Yes
Screen display	1, 4, 6, 9, 10, 13, 16, 25, 36, 64
Pre-alarm/Post-alarm recording	Yes
Emergency frame rate recording	Yes
Backup video format	i3 Encrypted, AVI, BMP, or JPEG
Number of IP video inputs	up to 32
Power over Ethernet	
Number of Ports	16
10/100/1000M RJ-45 Ports	16 ports IEEE 802.at PoE+
Internal 1000M RJ-45 Port	1
MAC Address	8K
Buffer Memory	4MB
Jumbo Frames	9.6KB
Transmission Method	Store and Forward
Power Output	44-57VDC output, IEEE 802.3at/af
PoE Power Output / PoE Power Budget	max. 30.8 Watts per port / 150 Watts
Hardware Configuration	
Motherboard:	Intel
Operating system	Win 7 Embedded on a 30GB mSATA
Standard SATA storage size	1TB
Max. number of additional HDD	2
Operating devices (CPU, graphics, RAM)	i5 Intel Processor, PCI Express, 4GB RAM DDR3
Analog video loop out (75 Ohm, dip switch controlled)	16
VGA resolution requirement	1024 x 768 or higher
Number of spot monitors	1
Number of audio inputs (DB9 to RCA)	8
Number sensor in/out (12VDC & 500mATerminal Blocks)	2/2 [Optional UIO8 = 4/4 (TCP/IP)]
Number of RS485 ports (PTZ)	1 [Optional UIO8 = 1 (TCP/IP)]
Connectivity (LAN/WAN)	2 x 1Gb/sec
Resolution and Compression	
Type of Compression	MJPEG, MPEG4, H.264
IP camera display speed (depending on screen division)	1, 4, 6, 9 = up to 30 fps per channel (depending on bandwidth & fps setting on cameras) or 10, 13, 16, 25, 36, 48 = 1~2 fps/ per camera
Analog display/recording speed NTSC/PAL	480/400fps @ CIF, 240/200fps @ 2CIF, 120/100fps @ D1
Client Applications	
Number of PACDM channels Serial/TCP/IP	Optional 8 lanes serial or 16 lanes TC/IP
CMS (Central Monitoring Software)	Yes (optional)
Remote viewing	IE 6.0+, SRX-Pro Remote, SRX-Pro Player, Video Pilot Client, i3Display, Android Mobile App, iOS Mobile App
Physical Environment and Certifications	
Type of chassis	Wallmount / Rackmount Steel Alloy
Weight	min. 11.4 kg (25 lb)
Certification	UL/ULc, FCC, CE
Power	115-230 VAC, 50-60 Hz, 350 W (auto switch)
Physical dimensions (LxWxH)	43.2 cm x 37.5 cm x 15.56cm (17inch x 14 3/4inch x 6inch)
Operating temperature & relative humidity	20degree - 25degreeC or 68degree - 77degreeF < 80%, non-condensing
Warranty	
Standard Warranty	3 yr parts & 1 yr labour

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