



PS-816HCE

FEATURE

Remote

SIXFOLD	H.264	Two-way Audio	FULL D1 HD1/CIF	N-Streaming
Google	IE Firefox DVR	CMS		

Storage

SATA E-SATA	USB	SSD
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Integration

PTZ	3D De-interlace De-noise	Fly 2 DDNS	2X REC Rate
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User interface

Object Search	GUI	PDA iPhone	Mobile Phone	Keypad
IR Remote	Keyboard	Mouse	HDMI	VGA Built-in

SOC 2

SOC 2

SOC 3

- **16 CH** H.264 DVR Standalone with six-fold operation-record, live, playback, backup, control & network remote access.
- **H.264 Baseline Profile** video compression/decompression via network with configurable quality.
- Real time live display for all cameras.
- Streaming video for mobile phone or PDA, no Apps required
- **Record rate** – Full-D1: up to 60/50IPS cam1-4, CIF: up to 480/400IPS for cam1-16
- Playback capabilities – Full-D1: up to 60/50IPS, CIF: up to 240/200IPS for cam1-16
- Realtime live display, 30 (NTSC) / 25 (PAL) IPS, for each channel
- Bi-directional audio capabilities
- **1ST Stand-alone DVR with state-of-the-art 3-D de-interlace & de-noise**
- **Object search & playback with Slide bar pointer.**
- Port **HDMI** (High-Definition Multimedia Interface) (optional)
- **Built-in VGA** Resolution 1280x1024 pixel
- 1 SATA HDDs up to 2TB
- Alarm in * 8 / alarm out * 1 (optional)
- Ethernet * 1 for remote access, including web access, e-mail alarm notification, FTP video/audio file storage, and software upgrade
- **Free DDNS server (xxx.fly2dns.net)**
- **Support remote PC with Windows 7, Vista, XP, and 2000**
- **1 I.E./Firefox software for multiple DVRs**
- **N-Streaming video for mobile phone or PDA, no Apps required**
- **NFS NAS Recording Supported.**
- **RS-232 and RS-485 for PTZ, keyboard control, POS, and GPS support**
- USB 2.0 for video/audio backup to versatile storage devices
- External DVD Models: Video/audio backup to internal DVD, including DVD+RW, DVD+R, and DVD-R
- eSATA connector for HDD extension
- Keypad, I/R remote control, & mouse operation
- Digital watermark
- Multi-lingual support for setup and display
- Open system architecture for ease of access via network, RS-485 keyboard
- **OCX SDK** available for the integration with different applications

- **Free CMS Software (PS90XX)** Hyper Electronics Mapper (HEM) for multi-site plot on Google Earth layer with [live/search/playback/configuration AVI convertor](#) and utility software. CMS support Dual Monitor.
- Touch Screen Support
- Privacy masking

TOMURA™ PROFESSIONAL CCTV SYSTEM

System	
O.S.	Embedded Linux 2.6
Multiplex	Sixfold operation - simultaneous record, live, playback, backup, control, & remote access
Processor	Multiple
Certification	FCC, CE, LVDS etc.
O.S.	Embedded Linux 2.6
Video	
Format	NTSC/EIA or PAL/CCIR
Input	16-CH, BNC, 1Vp-p/75ohm
Main monitor	BNC x 1, 1Vp-p/75ohm VGA D-SUB 15-pin connector HDMI (Optional)
Loss detection	Yes
Motion detection	Yes, with configurable 20x26 detection area & sensitivity
Audio	
Input	2 RCA-jack connectors, line-in level (100mV-2Vrms)
Output	1 RCA-jack connectors, line-out level (up to 2Vrms)
Record	
Compression	H.264 Baseline Profile Audio: ADPCM
Frame rate (IPS) & Resolution	NTSC – 60 / 720*480 for cam1-4, 480 / 360*240 for cam1-16 PAL – 50 / 720*576 for cam1-4, 400 / 360*288 for cam1-16
Quality	1-9 level
Watermark	Yes
Mode	Manual/Schedule/Alarm/Motion
Pre-record time	0 - 60 seconds
Display	
Resolution	NTSC – 720*480, PAL – 720*576
Split windows	1/4//7/9/10/13/16
Frame rate	Up to 30/25 IPS per display window
Digital Zoom	X2, X4
Sequential switch	User adjustable
Resolution	NTSC – 720*480, PAL – 720*576
Split windows	1/4//7/9/10/13/16
Playback	
Frame rate (IPS) & Resolution	NTSC – 120 / 720*480, 240 / 720*240, 480 / 360*240 PAL – 100 / 720*576, 200 / 720*288, 400 / 360*288
Search	Quick(1/3/5Min ago), Object search, Object Counting, Date/time, Alarm & Motion & Video Loss, Search Achieve files, POS/Keycard (Text Search)
Operation	Play, 64X Fast Forward & Backward, Pause, Stop, etc. Remote I.E. and HEM can also Print
Frame rate (IPS) & Resolution	NTSC – 120 / 720*480, 240 / 720*240, 480 / 360*240 PAL – 100 / 720*576, 200 / 720*288, 400 / 360*288
Search	Smart search, Date/time, Camera, Alarm, & Motion
Storage	
HDD	1 set of 3.5" SATA HDD with storage > 2TB Advanced format HDD supported Failure detection supported Privacy law supported
HDD Extension	1 eSATA connector / NAS
Partitions	Configurable alarm partition size Configurable auto-overwrite or not
Backup	1 USB 2.0 port for USB 2.0 storage devices with jpg snap shot Self playback for backup files

Alarm	
Input	16 contact or TTL/CMOS signal, polarity selectable
Output	1 Normally Open, 1 Normally Closed relay output
Buzzer	Yes
Triggered by	Sensor input, Video loss, & Motion
Event log	Yes
Network	
Ethernet	1 RJ-45 10/100BaseT Ethernet connector / 3G USB modem
Web	Remote setup, monitoring, backup, alarm notification, & remote software upgrade Support Windows 7, Windows Vista, Windows XP, and Windows 2000 1 I.E./Firefox for multiple DVRs Configurable HTTP/SFTP/FTP/Control/Data port
DDNS	Free DDNS server fly2dns.net and Support DynDNS.org, NO-IP.com, 3322.org, FreeDNS.com
E-mail	Alarm notification to stationary or mobile devices. SSL support
FTP	Alarm video/audio file storage
Video	1/4/9/16/25/36/49/64 split-window & SEQ mode for I.E. and HEM Dynamic electronics maps for HEM N-Streaming live view
Audio	Bidirectional
Protocol	TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP
Remote users	Up to 8 users simultaneously
Bandwidth	TCP/IP type dynamic sliding window control
Remote stations	Streaming video for PC, mobile phone, PDA, etc., Free TapCMS Apps can playback 16CH on mobile phone.
Control / GPS / POS	
I/R	1 I/R remote controller Optional I/R extension cable
RS-232	1 D-type female connector for PTZ, POS, or GPS
RS-485/422	2-pin for keyboard/PTZ control
Setup	
Local	On screen setup via keypad, I/R remote controller, mouse, and/or RS-485 keyboard
Remote	Setup & upload via Windows application software
Multi-lingual	Yes with Thai.
Reliability	
System recovery	Auto power on after power loss recovery
Watch Dog Timer	Yes
Timer	Built-in real time clock
Security	Multi-level password (3 levels, up to 18 accounts) protection with authentication key for remote access
System recovery	Auto power on after power loss recovery
Watch Dog Timer	Yes
Timer	Built-in real time clock
Weights & Measures	
Dimension	320(W) x 210(D) x 50(H)mm
Weight	2.0 KG (without HDD)
Power	
Source	+12VDC
Consumption	30W Max.
Operating	
Temperature	0°C ~ +45°C

* Product Design and Specifications are subject to change without prior notice.

Central Management Software (CMS)

PS-9010, Hyper Electronics Mapper for 10 DVRs
PS-9050, Hyper Electronics Mapper for 50 DVRs
PS-9099, Hyper Electronics Mapper for Unlimited DVRs

.....Free Buddle
.....Optional
.....Optional