TOMURA

DVR Standalone

H.264 FULL D1 | HDMI | 960H | SOC3

SERIES 8 HYBRID

16-CH Rack-Mountable DVR

CE FC LVDS

PS-816HCT

NEW CPU

Remote

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

Storage

SATA E-SATA | USB | SSD

Integration

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

User interface

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

- 8-CH 1080p/720p IP-CAM and 16/8-CH 960H Hybrid DVR H.264 DVR Standalone with six-fold operation-record, live, playback, backup, control & network remote access.
- **H.264 Main Profile** video compression/decompression via network with configurable quality.
- Real time live display for all cameras.
- **2X Record rate** – 960H: 180/150IPS, Full-D1: up to 360/300IPS, Half-D1: up to 480/400IPS, CIF: up to 480/400IPS
- **Support privacy mask**
- 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.**
- Support **HDMI** (High-Definition Multimedia Interface) **VGA** Resolution 1920x1080 pixel
- 1 SATA HDDs up to 4TB
- Alarm in * 8 / alarm out * 2 (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 UPnP**
- **Support remote PC with Windows 7, Vista, XP, and 2000**
- **1 I.E./Firefox /Google Chrome software for multiple DVRs**
- **N-Streaming video for mobile phone or PDA, no Apps required**
- **Free iPhone/iPad/Android/Mac software app**
- **Support push alarm notification to mobile phones**
- **NFS NAS Recording Supported.**
- **RS-232 and RS-485 for PTZ, keyboard control, POS, and GPS support**
- 2 x 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 5-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 Macintosh/Windows multi-site plot on Google Earth layer with live/search/playback/configuration AVI convertor and utility software. CMS support Dual Monitor.
- Touch Screen via USB Support
- Privacy masking

System	
O.S.	Embedded Linux 3.0
Multiplex	Sixfold operation - simultaneous record, live, playback, backup, control, & remote access
Processor	Multiple
Certification	FCC, CE, LVDS, PSE, etc.
Video	
Format	**IP-CAM: ONVIF Profile S** NTSC/EIA or PAL/CCIR
Input	16-CH, BNC, 1Vp-p/75ohm
Main monitor	BNC x 1, 1Vp-p/75ohm HDMI, with resolution up to 1920x1080, VGA D-SUB 15-pin, with resolution 1920x1080
Loss detection	Yes
Motion detection	Yes, with configurable 20x26 detection area & sensitivity
Privacy mask	**Yes**
Audio	
Input	8 RCA-jack connectors, line-in level (100mV-2Vrms)
Output	HDMI, 2 RCA-jack connectors, line-out level (up to 2Vrms)
Record	
Compression	**H.264 Main Profile** Audio: ADPCM
Frame rate (IPS) & Resolution	IP-CAM: 120fps@1080p, 240/200fps@720p, Analog: 240/200fps@960H, 360/300fps@D1 480/400fps@Half-D1/CIF Up to 40Mbps incoming bandwidth for IP-CAM
Quality	1-9 level
Watermark	Yes
Mode	Emergency/Manual/Schedule/Alarm/Motion
Pre-record time	0 - 60 seconds
Post-record time	0 - 60 minutes
Display	
Resolution	HDMI/VGA – 1920x1080,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
Playback	
Frame rate (IPS) & Resolution	IP-CAM: 120fps@1080p, 240/200fps@720p, Analog: 240/200fps@960H, 360/300fps@D1 480/400fps@Half-D1/CIF
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,Snap shot
Storage	
HDD	1 set of 3.5" SATA HDD with storage > 3TB Advanced format HDD supported Failure detection supported Privacy law supported
HDD Extension	1 **eSATA** connector for 5 eSATA HDD / 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	8 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, 6000 events
Network	
Ethernet	1 RJ-45 10/100/1000 BaseT Ethernet connector / 3G USB modem
3G	Support 3G USB Dongle dial-up internet.
Web	Remote setup, monitoring, backup, alarm notification, & **remote software upgrade** **Support Windows 8,7, Windows Vista, Windows XP, and Windows 2000** **1 I.E./Firefox for multiple DVRs** **Configurable HTTP/SMTP/FTP/Control/Data port**
DDNS	Free DDNS server **fly2dns.net** and Support DynDNS.org, NO-IP.com, 3322.org, FreeDNS.com
E-mail/ Push alarm	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/MAC, mobile phone, Tablet, 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 PTZ, POS, Pegasus Keycard ,GPS
RS-485/422	2-pin for keyboard/PTZ control
Setup	
Local	GUI 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 in Web browser and Main monitor.
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
Weights & Measures	
Dimension	320(W) x 210(D) x 50(H)mm
Weight	2.0 KG (without HDD)
Power	
Source	+12VDC
Consumption	36W 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 .....**Free Buddle**
PS-9050, Hyper Electronics Mapper for 50 DVRs .....Optional
PS-9099, Hyper Electronics Mapper for Unlimited DVRs .....Optional