# TOMURA

## DVR Standalone H.264

## SERIES 8 HYBRID

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE

CE FC LVDS

**D1 Real-time**

960H

HDMI 960H

H.264 Series 8 DVR

# PS-804HCT/PS-808HCT

## FEATURE

**Remote** — SOC 2

- 6 SIXFOLD
- FULL D1 HD1/CIF
- H.264
- Two-way Audio
- CMS
- Vista XP 2000
- IE Firefox DVR
- Google
- N-Streaming

**Storage**

- SATA
- USB
- SSD

**Integration**

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

**User interface**

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

- 4-CH 1080p/720p IP-CAM and 8/4-CH 960H Hybrid H.264 DVR Standalone with six-fold operation-record, live,playback, backup, control & network remote access.
- **H.264 High 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
- **N-Streaming internet/intranet remote access**
- Record/Playback capabilities – 960H: 150 FPS Full-D1:240/200IPS, Half-D1:240/200IPS, CIF:240/200IPS.
- **Support push alarm notification to mobile phones**
- **1ST Stand-alone DVR with state-of-the-art 3-D de-interlace & de-noise**
- Digital Watermark
- **Support touch panel with USB interface**
- Playback search by time or event (alarm, motion & video loss).
- **Object search & playback**.
- Digital zoom, X4
- SATA HDDs with storage size up to >3TB support AFT Western Digital
- Intelligent motion detection with programmable area and sensitivity.
- 1 USB for mouse 1 USB for Video/audio backup to built-in DVD or USB2.0 storage devices including pen drive, DVD+RW, DVD+R, and DVD-R
- **One I.E./Firefox software for unlimited number of  DVRs**
- Ethernet for remote access, including web access, e-mail alarm (v-loss, motion, HDD fail) notification with attached picture, and FTP video/audio file storage, remote setup & upgrade.
- Remote access through **mobile phone , iPhone or PDA**.
- **Built-in HDMI/VGA output** Resolution 1920x1080
- **Support PTZ/Keyboard/POS/GPS**
- **Free DDNS server (xxx.fly2dns.net)**
- Multi-level password and authentication key protection to ensure high degree of security.
- **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.
- Covert function able to hidden camera picture and recording on background.

## System

| | |
|---|---|
| O.S. | **Embedded Linux 3.0** |
| Multiplex | Sixfold operation - simultaneous record, live, playback, backup, control, & remote access. |
| Processor | Multiple. |
| Certification | FCC, CE, LVDS, etc. |

## Video

| | |
|---|---|
| Format Input | **IP-CAM: ONVIF Profile S** NTSC/EIA or PAL/CCIR. |
| | 4/8-CH BNC, 1Vp-p/75ohm. |
| Main monitor | BNC x 1, S-video x 1, 1Vp-p/75ohm, **HDMI, VGA** D-SUB 15-pin connector. |
| 3D de-interlace & de-noise | Yes. |
| Loss detection | Yes. |
| Motion detection | Yes, with configurable detection area (22x26 Cells) & sensitivity. |

## Audio

| | |
|---|---|
| Input | 2 RCA-jack connectors, line-in level (100mV-2Vrms). |
| Output | HDMI,1 RCA-jack connectors, line-out level (up to 2Vrms) |

## Record

| | |
|---|---|
| Compression | Video: **H.264 High Profile** with Watermark. Audio: ADPCM. |
| Frame rate (IPS) & Resolution | **IP-CAM: 60fps@1080p, 120/100fps@720p, Analog: 180/150fps@960H, 240/200fps@D1/Half-D1/CIF Up to 20Mbps incoming bandwidth for IP-CAM** 1~50IPS adjustable each camera or vary by event triggered. |
| Quality | 1-9 level. |
| Mode | Manual (Emergency))/Schedule/Alarm/Motion. |
| Pre-record time | 0 - 60 seconds. |
| Post-record time | 0 - 60 minutes. |

## Display

| | |
|---|---|
| Resolution | NTSC – 720x480, PAL – 720x576. |
| Split windows | 1/4/7/9/SEQ. |
| Frame rate | Up to 60 (NTSC) / 50 (PAL) IPS per display window. |
| Freeze | Yes. |
| Sequential switch | User adjustable. |
| Digital Zoom | X4, X16 |

## Playback

| | |
|---|---|
| Frame rate (IPS) & Resolution | **IP-CAM: 40fps@1080p, 80fps@720p, Analog: 180/150fps@960H, 240/200fps@D1/Half-D1/CIF** |
| Search | **Quick(1/3/5Min ago),Object search**, Date/time, Camera, 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. |

## Storage

| | |
|---|---|
| HDDs | 1 set of 3.5¨ SATA type HDD, > 3TB of HDD storage size |
| HDD Extension | NAS |
| Partitions | Configurable alarm partition size. Configurable auto-overwrite or not. |
| Backup | 1 USB 2.0 port for USB 2.0 disk drives, DVD+RW, **DVD+R, DVD-R**, card readers, HDD, etc. **External DVD models: DVD+RW, DVD+R, DVD-R** Self playback for backup files |

## Alarm

| | |
|---|---|
| Input | 4/8 contact or TTL/CMOS signal, polarity selectable. |
| Output | 1 Normally Open, 1 Normally Closed relay output Co response to Alarm/Event input or manual control by remote PC and mobile phone. |
| Buzzer | Yes. |
| Triggered by | Sensor input, Video loss, & Motion. |
| Event log | Yes , 6000 events with system log. |

## Network

| | |
|---|---|
| Ethernet | 1 RJ-45 10/100/1000 BaseT Ethernet connector. |
| 3G | Support 3G USB Dongle dial-up internet. |
| Web | Remote setup, monitoring, backup, alarm notification, & remote software upgrade 1 I.E./Firefox for unlimited DVRs Configurable HTTP/Control/Data port. |
| E-mail | Alarm notification to stationary or mobile devices. |
| FTP | Alarm video/audio file storage. |
| Video | 1/4/8/9/16/25/36/64split-window & SEQ for IE and HEM Dynamic electronics maps for HEM. |
| Audio | Bidirectional with broadcast. |
| Protocol | TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP,uPnP. |
| Remote users | Up to 6 users simultaneously. |
| Bandwidth | TCP/IP type dynamic sliding window control. |
| Remote stations | **PC,Mac, mobile phone, iOS/Android. no Apps required Free TapCMS Apps can playback 16 CH on mobile phone with Push notification.** |

## Control / GPS / POS

| | |
|---|---|
| I/R | 1 I/R remote controller. |
| RS-485 | 2-pin for keyboard, PTZ control, GPS or POS. |

## Setup

| | |
|---|---|
| Local | GUI setup via mouse, keypad, **touch panel**, I/R remote controller, and/or RS-485 keyboard controller. |
| Remote | Setup & upload via Windows/Mac application software. |
| Multi-lingual | Yes, 14 languages with Thai language. |

## Reliability

| | |
|---|---|
| System recovery | Auto power on after power loss recovery. |
| Watch Dog Timer | Yes. |
| Timer | Built-in real time clock. |
| Security | Multi-level password (4 levels, up to 18 accounts) protection with authentication key for remote access. |

## Weights & Measures

| | |
|---|---|
| Dimension | 320(W) x 210(D) x 50(H)mm. |
| Weight | 2.0 KG (without HDD). |

## Power

| | |
|---|---|
| Source | +12VDC./ 220-240VAC 50Hz |
| Consumption | 30W Max. |

## Operating

| | |
|---|---|
| Temperature | 0°C ~ +45°C. |

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

**Central Management Software (CMS)**