

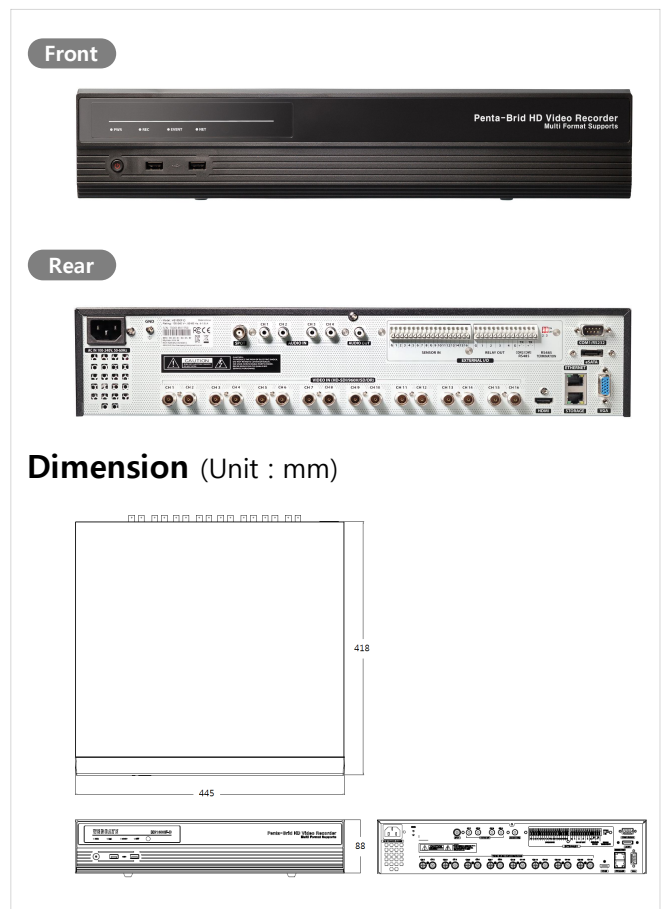


HS1620F-PD

Full-HD&Full-FrameDVR supportingPoC/CoC,EX-SDI

Key Features

- 16ch Standalone DVR supporting multi-video input
- Supports diverse video standards
 - Digital HD : HD-SDI, EX-SDI / 1080p, 720p
 - Analog SD : 960H, SD / 960H, 480i, 576i
 - IP camera : ONVIF & WESP protocol camera support (TBD)
- Camera power supply and OSD control over coaxial cable (PoC/CoC)
- Built-in EX-SDI receiver function for all channels (Supports up to 400m HD video transmission without repeater)
- Up to 30fps(25fps) recording and playback per channel
- Adjustable recording quality and framerate per channel
- Fire alert to DVR, CMS and smart phone when using with flame detection camera
- High-resolutions over 1200TVL at Live/Playback for HD1080p and EX-SDI video input
- Supports Dual Codec(H.264,JPEG) & Multi Stream
- HDMI, VGA, BNC video output
 - HDMI : 1920 x 1080 video output
 - VGA : 1920 x 1080, 1280 x 1024, 1024 x 768, 800 x 600 video output
 - BNC : CVBS. User-defined display & Alarm spot monitor support
- Various Live and Playback display (1/4/9/10/13/16 Split-screen)
- Robust IPFR (Intelligent Power Failure Recovery) DVR File System
- Max. 5 Internal SATA Type HDDs (Up to 6TB each)
- Supports Max. 128TB(NS04R connection via Gigabit ethernet) and Max. 32TB(e-SATA) external storage interface
- RAID 1/5/10 support with NS04R (TBD)
- Supports RTSP(Max. 180fps)
- Automatic port-forwarding via UPnP(Universal plug&play)
- Date/Time, Calendar/Time-line, Event, Thumbnail(Time Interval), Text Search available
- At-the-PC Playback of removed DVR HDD
- Lightning arresters on Video input, RS-485, DIO ports
- Provides bundle CMS program, managing Max. 1,024 DVRs in various ways such as E-map, Viewset
- Java Viewer for Chrome, Firefox, Safari, Mac OS X
- Supports various mobile platform (iPhone/Android Viewer)
- Real time push alarm to smart phone
- Provides Full SDK for easy and powerful customization



Specifications

| | | | | |
|--------------------------|--|---|-------------------------------------|--|
| VIDEO INPUT | | | PTZ | |
| Video input Format | BNC | HD-SDI (SMPTE 292M), EX-SDI | Protocols | 41 models including C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others |
| | D-SUB | Analog 960H/SD | NETWORK | |
| | ETHERNET | IP Camera(TBD) | Interface | 1 Gigabit Ethernet (10/100/1000Mbps) |
| Resolution / Frame Rate | HD-SDI EX-SDI | 1920x1080 / 25, 30fps | Type | Static IP, Dynamic IP, xDSL, UPnP, RTSP |
| | | 1280x720 / 25, 30, 50, 60fps | DDNS | WNS, DynDNS, NoIP, WRS |
| | Analog 960H | 960x480 / 60i or 960x576 / 50i | Bandwidth limit | Supported |
| | Analog SD | 720x480 / 60i or 720x576 / 50i | NTP | Server / Client / Both |
| Connectors | 16ch, 75Ω BNC connector | | Users | 10 Monitoring, 2 Playback |
| PoC | 16ch, Power over Coax, Max. 16W/ch, Total 180W | | Streaming | H.264 stream, High resolution |
| CoC | 16ch, Control over Coax, Max. 57,600bps | | | 1 additional H.264 stream, Normal resolution |
| VIDEO OUTPUT | | | | 1 JPEG stream, Normal resolution for e-mail or mobile |
| Video output | HDMI VGA | 1, 4, 9, 10, 13, 16 split-screen | SECURITY | |
| | | HDMI : 1920 x 1080 VGA : 1920x1080, 1280x1024, 1024x768, 800x600 | User level | 1 admin, 10 users |
| | | User defined display / Alarm pop-up / Sequential switching | User privilege | Menu, PTZ, Relay, Playback, Power, Copy, Network MIC |
| | BNC | 1, 4, 9, 10, 13, 16 split-screen | IP filtering | Supported |
| | | CVBS | STORAGE & BACKUP | |
| | | User defined display / Sequential switching | Storage devices | 5 internal SATA HDDs, 1 external eSATA Interface, Gigabit network for NS04R(TBD) |
| RECORDING | | | RAID Level | External storage including NS04R(Level 1/5/10) |
| Compression | H.264 / JPEG | | File system | Proprietary file system, Data-loss protection against power-failure |
| Resolution | 1920 x 1080, 1280 x 720, 960 x 480(576) | | Capacity | Max. 32TB with eSATA Max. 128TB with cascaded NS04R 6TB HDD Supported |
| Rate | Max. 480/400fps | | Backup type | Multi-channel or Single channel avi file, JPEG(Capture) |
| Quality | 10 levels up to 8Mbps | | Backup device | USB 2.0 drive (2 ports) |
| Mode | Continuous / Manual / Schedule | | S.M.A.R.T. | Temperature and Health checking |
| Schedule | 24hrs / 7days | | SERIAL & I/O | |
| PLAYBACK | | | Serial port | 1 RS-232C, 2 RS-485 |
| Mode | Instant Playback / Search | | Sensor input | 16 Dry-contacts |
| Speed | Max. 480/400fps | | Relay output | 4 Relays |
| Search type | Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark | | CONTROLLER | |
| Block playback | 24hours ~ 99days | | Device | IR remote controller, Joystick Keyboard, Mouse |
| EVENT & ALARM | | | SOFTWARE | |
| Event source | MD(Motion Detection), Sensor, Text, Video Loss | | Web viewer | Monitoring / Event / PTZ / Playback for IE |
| Event check Schedule | 24hrs / 7days | | Java viewer | Monitoring / Event / PTZ for IE, Chrome, Safari, Mac OS X |
| Event action | Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push | | Mobile viewer | Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android |
| MD area | 15 x 10 | | CMS | Control Center, Max. 1024 units |
| Sensor input | Dry contact (NO or NC selectable) | | SDK | ActiveX(COM) SDK |
| Text input | POS/ATM support, AVE VSI Pro/Hydra support | | ENVIRONMENTAL & PHYSICAL | |
| SYSTEM ALARM | | | Dimension | 445(W) x 418(D) x 88(H) mm |
| Alarm source | HDD fail, HDD almost full, Password fail, WRS fail, Fan fail | | Weight | 10 Kg (No HDD) |
| Alarm action | Warning message, Buzzer, E-mail, Relay, Mobile Alarm Push | | Operating Temperature | 5°C~45°C (41°F ~ 113°F) |
| AUDIO | | | Power | AC free volt (100~240VAC), 50/60Hz |
| Input/output | 4 RCA input / HDMI & RCA output | | PoC Power | DC 24V/7.5A |
| Compression | ADPCM (32Kbps, 16KHz, 16bit sampling) | | Power Consumption | Max. 85W, Typical 45W(1 HDD) |
| Direction | Both | | Approval | MSIP(KC), FCC, CE, RoHS |