

HD-CCTV DVR

Rev 1.0

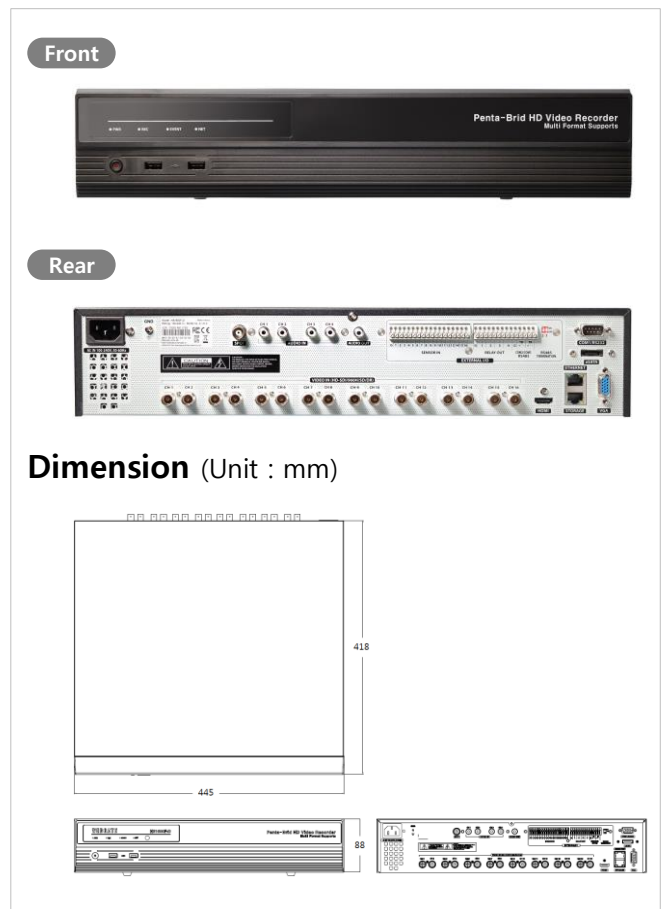


HS1620F-D

Full-HD & Full-Frame DVR supporting EX-SDI, AHD

Key Features

- 16ch Standalone DVR supporting multi-video input
- Supports diverse video standards
 - Digital HD : HD-SDI, EX-SDI / 1080p, 720p
 - Analog HD : AHD 2.0 / 1080p, 720p
 - Analog SD : 960H, SD / 960H, 480i, 576i
 - IP camera : ONVIF & WESP protocol camera support (TBD)
- Built-in EX-SDI receiver 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
- 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)
- 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 AHD 2.0, Analog 960H/SD	Protocols	41 models including C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others
	ETHERNET	IP Camera(TBD)	NETWORK	
Resolution / Frame Rate	HD-SDI EX-SDI	1920x1080 / 25, 30fps	Interface	1 Gigabit Ethernet (10/100/1000Mbps)
		1280x720 / 25, 30, 50, 60fps	Type	Static IP, Dynamic IP, xDSL
	AHD 2.0	1920x1080 / 25, 30fps 1280x720 / 25, 30fps	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
VIDEO OUTPUT			Streaming	
Video output	HDMI VGA	1, 4, 9, 10, 13, 16 split-screen	H.264 stream, High resolution	
		HDMI : 1920 x 1080 VGA : 1920x1080, 1280x1024, 1024x768, 800x600	1 additional H.264 stream, Normal resolution	
		User defined display / Alarm pop-up / Sequential switching	1 JPEG stream, Normal resolution for e-mail or mobile	
	BNC	1, 4, 9, 10, 13, 16 split-screen	SECURITY	
		CVBS	User level	1 admin, 10 users
		User defined display / Sequential switching	User privilege	Menu, PTZ, Relay, Playback, Power, Copy, Network MIC
RECORDING			IP filtering	Supported
Compression	H.264 / JPEG		STORAGE & BACKUP	
Resolution	1920 x 1080, 1280 x 720, 960 x 480(576)		Storage devices	5 internal SATA HDDs, 1 external eSATA Interface, Gigabit network for NS04R(TBD)
Rate	Max. 480/400fps		RAID Level	External storage including NS04R(Level 1/5/10)
Quality	10 levels up to 8Mbps		File system	Proprietary file system, Data-loss protection against power-failure
Mode	Continuous / Manual / Schedule		Capacity	Max. 32TB with eSATA, Max. 128TB with cascaded NS04R 6TB HDD Supported
Schedule	24hrs / 7days		Backup type	Multi-channel or Single channel avi file, JPEG(Capture)
PLAYBACK			Backup device	USB 2.0 drive (2 ports)
Mode	Instant Playback / Search		S.M.A.R.T.	Temperature and Health checking
Speed	Max. 480/400fps		SERIAL & I/O	
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark		Serial port	1 RS-232C, 2 RS-485
Block playback	24hours ~ 99days		Sensor input	16 Dry-contacts
EVENT & ALARM			Relay output	2 Relays
Event source	MD(Motion Detection), Sensor, Text, Video Loss		CONTROLLER	
Event check Schedule	24hrs / 7days		Device	IR remote controller, Joystick Keyboard, Mouse
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push		SOFTWARE	
MD area	15 x 10		Web viewer	Monitoring / Event / PTZ / Playback for IE
Sensor input	Dry contact (NO or NC selectable)		Java viewer	Monitoring / Event / PTZ for IE, Chrome, Safari, Mac OS X
Text input	POS/ATM support, AVE VSI Pro/Hydra support		Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
SYSTEM ALARM			CMS	Control Center, Max. 1024 units
Alarm source	HDD fail, HDD almost full, Password fail, WRS fail, Fan fail		SDK	ActiveX(COM) SDK
Alarm action	Warning message, Buzzer, E-mail, Relay, Mobile Alarm Push		ENVIRONMENTAL & PHYSICAL	
AUDIO			Dimension	445(W) x 418(D) x 88(H) mm
Input/output	4 RCA input / HDMI & RCA output		Weight	10 Kg (No HDD)
Compression	ADPCM (32Kbps, 16KHz, 16bit sampling)		Operating Temperature	5°C~45°C (41°F ~ 113°F)
Direction	Both		Power	AC free volt (100~240VAC), 50/60Hz
			Power Consumption	Max. 100W, Typical 70W(1 HDD)(TBD)
			Approval	MSIP(KC), FCC, CE, RoHS