

HD-CCTV DVR

Rev 1.0



HS1600F-D

Penta-brid HD DVR supporting multi video format & Built-in DoubleReach™

Key Features

- 16ch Standalone DVR supporting multi-video input
- Supports diverse video standards
 - Digital : HD1080p, HD720p, DoubleReach™
 - Analog : Analog, 960H (NTSC/PAL)
- Built-in DoubleReach™ 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
- High-resolutions over 1200TVL at Live/Playback for HD1080p and DoubleReach™ video input
- Supports Dual Codec(H.264,JPEG) & Multi Stream
- HDMI, VGA, BNC video output
 - HDMI & VGA : 1920 x 1080 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
- Supports Max. 128TB(NS04R connection via Gigabit ethernet) and Max. 32TB(e-SATA) external storage interface
- 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
- Supports various mobile platform (iPhone/Android Viewer)
- Provides Full SDK for easy and powerful customization

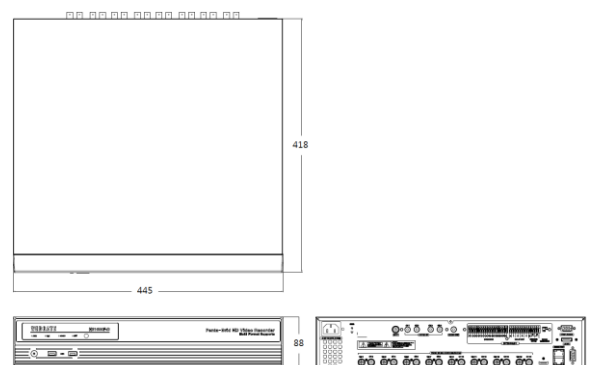
Front



Back



Dimensions (Unit : mm)



Specifications

VIDEO INPUT			PTZ	
Video input Format	HD-SDI (SMPTE 292M), DoubleReach™ CVBS, 960H		Protocols	35 models including C1080, C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others
Resolution / Frame Rate	HD1080p	1920x1080 / 25, 30 FPS	NETWORK	
	HD720p	1280x720 / 25, 30, 50, 60 FPS	Interface	2 Gigabit Ethernet (10/100/1000Mbps)
	DoubleReach	1920x1080 / 25, 30FPS	Type	Static IP, Dynamic IP, xDSL
	510H/760H	720x480 / 60i or 720x576 / 50i	DDNS	WNS, DynDNS, NoIP, WRS
	960H	960x480 / 60i or 960x576 / 50i	Bandwidth limit	Supported
Connectors	16ch, 75Ω BNC connector		NTP	Server / Client / Both
VIDEO OUTPUT			Users	10 Monitoring, 2 Playback
Video output	HDMI VGA	1, 4, 9, 10, 13, 16 split-screen	Streaming	H.264 stream, High resolution
		1920 x 1080		1 additional H.264 stream, Normal resolution
		User-defined display / Alarm pop-up		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	
		Channel Switching / Alarm pop-up	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, 720 x 480(576), 960 x 480(576)		Storage devices	5 internal SATA HDDs, 1 external eSATA Interface, 1 Gigabit network for storage(NS04R)
Rate	Max. 30fps(25fps) per channel		File system	Proprietary file system, Data-loss protection against power-failure
Quality	10 levels up to 12Mbps		Capacity	Max. 32TB with eSATA, Max. 128TB with cascaded NS04R
Mode	Manual & Event / Schedule & Event / Continuous & Event		Backup type	Multi-channel or Single channel avi file
Schedule	24hrs / 7days		Backup device	USB drive (2 ports)
PLAYBACK			S.M.A.R.T.	Temperature and Health checking
Mode	Instant Playback / Search		SERIAL & I/O	
Speed	Max. 30fps(25fps) per channel		Serial port	1 RS-232C, 2 RS-485
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail, Text		Sensor input	16 Dry-contacts
Block playback	24hours ~ 99days		Relay output	4 Relays
EVENT & ALARM			CONTROLLER	
Event source	MD(Motion Detection), Sensor, Text, Video Loss		Device	IR remote controller, Joystick Keyboard, Mouse
Event check Schedule	24hrs / 7days		SOFTWARE	
Event action	Buzzer, Relay, E-mail, FTP, Alarm pop-up		Web viewer	Monitoring / Event / PTZ / Playback for IE
MD area	15 x 10		Java viewer	Monitoring / Event / PTZ for IE, Chrome, Safari
Sensor input	Dry contact (NO or NC selectable)		Mobile viewer	Monitoring / PTZ / LogView / Playback with iPhone & Android
Text input	POS/ATM support, AVE VSI Pro/Hydra support		CMS	Control Center, Max. 1024 DVRs
SYSTEM ALARM			SDK	ActiveX(COM) SDK
Alarm source	HDD fail, HDD almost full, Fan fail, Password fail, WRS fail		ENVIRONMENTAL & PHYSICAL	
Alarm action	Warning message, Buzzer, E-mail, Relay		Dimension	445(W) x 418(D) x 88(H) mm
AUDIO			Weight	10 Kg (No HDD)
Input/output	4 RCA input / HDMI & RCA output		Operating Temperature	5°C~45°C (41°F ~ 113°F)
Compression	ADPCM (32Kbps, 16KHz, 16bit sampling)		Power	AC free volt (100 ~ 240VAC), 50/60Hz
Direction	Both		Power Consumption	Max. 100W, Typical 70W (1 HDD)
			Approval	KC, FCC, CE, RoHS