HD1600F-PDR

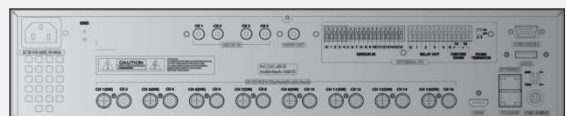Full-HD & Full-Frame DVR supporting PoC/CoC, DoubleReach™, RAID

Key Features

- 16ch HD-SDI Standalone DVR
- The World's First HDcctv Certified PoC/CoC 16ch HD-SDI DVR
- Self-power supply to all 16 cameras by PoC (Power over Cable) function
- Control all 16 cameras by CoC (Control over Coax) function
- Doubles the video transmission distance by DoubleReach™ technology
- Max. 480/400fps Recording & Playback at Full-HD 1080p resolution
- Adjustable recording quality and framerate per each channel
- Supports High-resolutions over 1200TV lines at Live/Playback
- Supports Dual Codec(H.264,JPEG) & Multi Stream (HD, nHD(640x360))
- Full-HD 1920x1080 resolution output via HDMI port
- 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
- Hardwired RAID system supporting RAID level 1/5/10
- Supports Max. 128TB(NS04R connection via Gigabit ethernet) and
  Max. 32TB(e-SATA) external storage interface
- Date/Time, Calendar, Event, Thumbnail, Smart, Text Search available
- At-the-PC Playback of removed DVR HDD
- Lightning arrester on HD-SDI, 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, Mobile page)
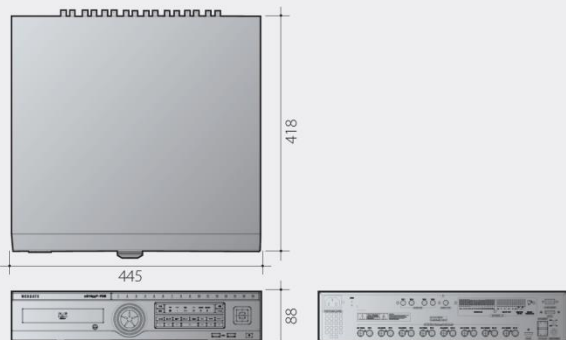- Provides Full SDK for easy and powerful customization

Front

Back

Dimensions (Unit : mm)

418
445
88

Specifications

VIDEO INPUT

Video input standard	SMPTE 292M (HD-SDI)
	Odd channels support DoubleReach^{TM} (Total 8 channels)
Resolution / Frame Rate	SMPTE 274M (1080p, 1920x1080) : 25, 30, 29.97 FPS
	Input format auto detection
Connectors	16ch, 75Ω BNC connector
PoC	16ch, Power over Coax, Max. 16 W/ch, Total 180W
CoC	16ch, Control over Coax, Max. 57,600bps

VIDEO OUTPUT

Video output	HDMI
	1, 4, 9, 10, 13, 16 split-screen
	User defined sequence / Alarm pop-up
	1920 x 1080p via HDMI port

RECORDING

Compression	H.264 / JPEG
Resolution	1920 x 1080
Rate	480/400 fps at 1080p
Quality	1080p, 10 levels up to 12Mbps
Mode	Manual & Event / Schedule & Event / Continuous & Event
Schedule	24hrs / 7days

PLAYBACK

Mode	Instant playback / search
Speed	Max. 480/400 fps at 1080p
Search type	Time, Calendar, Timeline, Event, Thumbnail, Smart, Text
Block playback	24hours ~ 99days

EVENT & ALARM

Event source	MD(Motion Detection), Sensor, Text, Video Loss
Event check Schedule	24hrs / 7days
Event action	Buzzer, Relay, E-mail, FTP, Alarm pop-up
MD area	15 x 10
Sensor input	Dry contact (NO or NC selectable)
Text input	POS/ATM support, AVE VSI Pro/Hydra support

SYSTEM ALARM

Alarm source	HDD fail, HDD almost full, Fan fail, Password fail, WRS fail
Alarm action	Warning message, Buzzer, E-mail, Relay

AUDIO

Input/output	Input 4ch RCA / output HDMI, RCA
Compression	16KHz, 16bit sampling ADPCM
Direction	Both

PTZ

Protocols	35 models including C1080, C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others

NETWORK

Interface	1 Gigabit Ethernet (10/100/1000Mbps)
Type	Static IP, Dynamic IP, xDSL
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	Supported
NTP	Server / Client / Both
Users	10 Monitoring, 2 Playback
Streaming	1 HD, H.264 stream, Same as recording setting
	1 additional H.264 stream, nHD(640 x 360)
	1 JPEG stream, nHD(640 x 360) for e-mail or mobile

SECURITY

User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power, Copy, Network MIC
IP filtering	Supported

STORAGE & BACKUP

Storage devices	5 internal SATA HDDs, 1 external eSATA Interface, 1 Gigabit network for storage(NS04R)
RAID Level	1/5/10 Supported
File system	Proprietary file system, Data-loss protection against power-failure
Capacity	Max. 32TB with eSATA, Max. 128TB with cascaded NS04R
Backup type	Multi-channel or Single channel avi file
Backup device	USB drive (2 ports)
S.M.A.R.T.	Temperature and Health checking

SERIAL & I/O

Serial port	1 RS-232C, 2 RS-485
Sensor input	16 Dry-contacts
Relay output	4 Relays

CONTROLLER

Device	Front panel, IR remote, Joystick Keyboard, Mouse

SOFTWARE

Web viewer	Monitoring / Event / PTZ / Playback with IE
Java viewer	Monitoring / Event / PTZ with IE, Chrome, Safari
Mobile viewer	Monitoring / PTZ / LogView with iPhone & Android
CMS	Control Center Standard, Max. 1024 DVRs
SDK	ActiveX(COM) SDK

ENVIRONMENTAL & PHYSICAL

Dimension	445(W) x 418(D) x 88(H) mm
Weight	10 Kg (No HDD)
Operating Temperature	5°C~45°C (41°F ~ 113°F)
Power	AC free volt (100 ~ 240VAC), 50/60Hz
PoC Power	DC 24V/7.5A (Option)
Power Consumption	Max. 100W Typical 70W (1 HDD)
Approval	KC, FCC, CE, RoHS, HDcctv