

HD-CCTV DVR



HD1600M Full HD Digital Video Recorder

Key Features

- 16ch HD-SDI Standalone DVR
- The World's First HDcctv Certified 16ch DVR
- 100/120fps Recording at 1080p, 200/240fps at 720p
- Supports both 1080p and 720p resolution. Adjustable recording quality and framerate per each channel
- Supports High-resolution over 1200TV lines in Live/Playback
- Supports Dual Codec(H.264,JPEG) / Multi Stream(HD/D1/HALF/CIF)
- Supports 1920x1080 resolution via HDMI and VGA Port
- Built-in Multiplexer for 16ch Live monitoring and Playback (1/4/9/16 Mode)
- Supports IPFR (Intelligent Power Failure Recovery) File System
- 4 Internal SATA Type HDDs
- Support Max. 64TB(NVS04R connection via Gigabit ethernet) and Max 16TB(e-SATA) external storage
- 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 that manages 1,024 DVRs in various ways such as E-map, Viewset
- Java Viewer for Chrome, Firefox, Safari
- Various mobile platform support (iPhone/Android Viewer, Mobile page)
- Provides Full SDK for easy and powerful customization

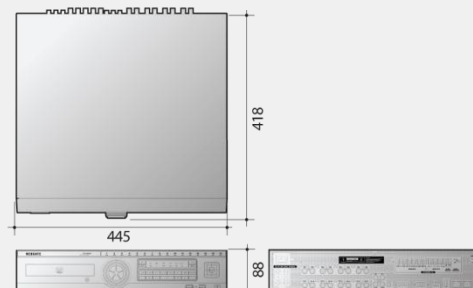
Front



Back



Dimensions



Specification

VIDEO INPUT		NETWORK	
Video input standard	SMPTE 292M (HD-SDI)	Interface	10/100 Ethernet
Resolution / Framerate	SMPTE 274M(720p, 1280x720) : 25/50, 30/60, 29.97/59.54fps	Type	Fixed IP, Floating IP, xDSL
	SMPTE 296M(1080p, 1920x1080) : 25, 30, 29.97 fps	WRS	Supported
Connectors	16ch, 75Ω BNC connector	Bandwidth limit	Supported
VIDEO OUTPUT		NTP	Server / Client / Both
Video output	HDMI / VGA	Users	10 monitoring, 2 playback
	1, 4, 9, 16 mode	Streaming	1 HD H.264 same as recording
	User defined sequence / alarm pop-up		1 additional H.264 smaller than recording
	1920x1080p at HDMI / VGA port		1 JPEG for e-mail sending or mobile
RECORDING		SECURITY	
Compression	H.264 / JPEG	User level	1 admin, 10 users
Resolution	1920x1080, 1280x720	User privilege	Menu, PTZ, relay, playback, power On/Off, copy, network MIC
Rate	120fps/100fps at 1080p	IP filtering	Supported
	240fps/200fps at 720p	STORAGE & BACKUP	
Quality	720p 5 levels , 1080p 7 levels	Storage devices	4 internal SATA HDDs, 1 external eSATA I/F, 1 ethernet network for storage(NVS04R)
Mode	Manual & Event / Schedule & Event / Continuous & Event	Mirroring	Supported
Schedule	24hrs / 7days	File system	Proprietary file system, data-loss protection against power-failure
PLAYBACK		Capacity	Max 16TB with SATA, Max 64TB with cascaded NVS04R
Mode	Instant playback / search	Backup type	multi-channel or single channel avi file
Speed	60fps/50fps at 1080p	Backup device	Internal DVD or USB drive(2 port)
	120fps/100fps at 720p	S.M.A.R.T.	Temperature and health
Search type	Time, Calendar, Event, Thumbnail, Smart	SERIAL & I/O	
Block playback	24hours ~ 31days	Serial port	1 RS-232C, 2 RS-485
EVENT & ALARM		Sensor input	16 dry-contact
Event source	MD(Motion Detection), Sensor, Text, Video Loss	Relay output	4 relay
Event check Schedule	24hrs / 7days	CONTROLLER	
Event action	Buzzer, relay, e-mail, twitter, FTP, alarm pop-up	Device	Front panel, IR remote, Joystick KBD, Mouse
MD area	22x15	SOFTWARE	
Sensor input	Dry contact (N.O. or N.C. selectable)	Web viewer	Monitoring / Event / PTZ / Playback with IE
Text input	POS/ATM support, AVE VSI Pro/Hydra support	Java viewer	Monitoring / Event/ PTZ with IE, Chrome, Safari
SYSTEM ALARM		Mobile viewer	Monitoring with PTZ, iPhone & Android supported
Alarm source	HDD fail, HDD almost full, fan fail, Pwd fail, WRS fail	CMS	Control Center Standard, max 1024 DVRs
Alarm action	Warning message, buzzer, e-mail, relay, twitter	SDK	ActiveX(COM) SDK
AUDIO		ENVIRONMENTAL & PHYSICAL	
Input/output	4ch input / 1ch output	Dimension	445(W) x 418(D) x 88(H) mm
Compression	16KHz, 16bit sampling ADPCM	Weight	10 Kg (No HDD)
Direction	Both	Operating Temperature	5°C~45°C (41°F ~ 113°F)
PTZ		Power	AC free volt (100 ~ 240VAC), 50/60Hz
Protocols	35 models including C1080, C1080PT-Z20, Pelco-D, Pelco-P, Samsung, and Panasonic	Power Consumption	Max. 100W Typical 70W(1 HDD)
		Approval	KC, FCC, CE, RoHS, Hdccvt