HVRM-T1600L



FEATURES

16 Channel H.264, Linux Embedded, 480/480 @ 720×480 (Full D1) Digital Video Recorder

- 16ch Stand-alone DVR
- Monitoring/Recording (480/480fps at D1) for All Channels
- Adjustable Recording Quality/Speed Setup per Each Channel
- 4 Individual Monitor Output via Built-in 4 BNC and 2 DVI Port (Each Monitor Support Playback/Screen Division/Menu Feature)
- Support Dual Codec(H.264,JPEG) / Multi Stream
- Support IPFR (Intelligent Power Failure Recovery) File System
- 4 Internal SATA Type HDDs
- Support External Storage via Giga-Ethernet (HVRM-04)
- Support External Storage via eSATA
- Date/Time, Calendar, Event, Thumbnail, Smart, Text Search Available
- Provide Bundle CMS Managing 1,024 DVRs in Various Ways such as E-map, Viewset
- Java Viewer for Chrome, Firefox, Safari
- Various Mobile Platform Support (iPhone/Android Viewer and Mobile page)
- Provide Full SDK for Easy and Powerful Customization

HVRM-T1600L
16 BNC connectors (NTSC/PAL, auto detect)
16ch, 75Ω BNC connector
4 BNC (Each monitor support 16 division), 2 DVI
16 with auto-termination
D1(4CIF), HALF(2CIF), CIF
480/400fps (NTSC/PAL) at D1(4CIF)

Recording Resolution 480/400fps (NTSC/PAL) at D1(4CIF) Quality 5 levels of compression rate / Record frame rate adjustment Recording Mode Manual & Event / Schedule & Event / Continuous & Event Recording Schedule Schedule Playback Mode Instant playback / search Search type Time, calender, event, thumbnail, smart Event source MD(Motion Detection), sensor, video loss, text Sensor input Dry contact (N.O. or N.C. selectable) Text input POS/ATM support, AVE VSI Pro/Hydra support Alarm source HDD fail, HDD almost full, fan fail, Pwd fail, WRS fail Alarm action Warning message, buzzer, e-mail, relay, twitter Audio Input/ Output 16ch input / 1ch output PTZ Protocols 35 models including C1080, C1080PT-Z20, Pelco-D, Pelco-P, Samsung, and Panasonic Network Interface 10/100 Ethernet Network Type Fixed IP, Floating IP, xDSL Network wRS Supported Network bandwidth limit Suppoorted Network Users 10 monitoring, 2 playback Security User level 1 admin, 10 users User privilege Menu, PTZ, relay, playback, power off, power on, copy, network MIC Pfiltering Supported Storage devices 4 internal SATA HDDs up to 2TB each, 1 external eSATA I/F, 1 ethernet for storage Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring if Event / PTZ / Playback with IE Java viewer Monitoring if Event / PTZ / Playback with IE Java viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRS Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C - 45°C (41°F - 113°F) Power Consumption Max. 75W Typical 50W	Specifications	
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Network Users 10 monitoring, 2 playback Security User level 1 admin, 10 users User privilege Menu, PTZ, relay, playback, power off, power on, copy, network MIC IP filtering Supported Storage devices 4 internal SATA HDDs up to 2TB each, 1 external eSATA I/F, 1 ethernet for storage Storage Mirroring Supported Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event / PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Network bandwidth limit	Suppoorted
Security User level 1 admin, 10 users User privilege Menu, PTZ, relay, playback, power off, power on, copy, network MIC IP filtering Supported Storage devices 4 internal SATA HDDs up to 2TB each, 1 external eSATA I/F, 1 ethernet for storage Storage Mirroring Supported Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event / PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Network NTP	Server / Client / Both
User privilege Menu, PTZ, relay, playback, power off, power on, copy, network MIC IP filtering Supported Storage devices 4 internal SATA HDDs up to 2TB each, 1 external eSATA I/F, 1 ethernet for storage Storage Mirroring Supported Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Network Users	10 monitoring, 2 playback
IP filtering Supported Storage devices 4 internal SATA HDDs up to 2TB each, 1 external eSATA I/F, 1 ethernet for storage Storage Mirroring Supported Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Security User level	1 admin, 10 users
Storage devices 4 internal SATA HDDs up to 2TB each, 1 external eSATA I/F, 1 ethernet for storage Storage Mirroring Supported Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	User privilege	Menu, PTZ, relay, playback, power off, power on, copy, network MIC
storage Mirroring Supported Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	IP filtering	Supported
Storage Capacity Max 8TB with SATA, Max 32TB with cascaded HVRM-04 Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Storage devices	•
Backup type Multi-channel own file format or single channel avi file Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event / PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Storage Mirroring	Supported
Backup device Internal CD/DVD or USB drive(2 port) Serial & I/O 1 RS-232C, 2 RS-485 Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Storage Capacity	Max 8TB with SATA, Max 32TB with cascaded HVRM-04
Serial & I/O Relay output 4 relay Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Backup type	Multi-channel own file format or single channel avi file
Relay output Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Backup device	Internal CD/DVD or USB drive(2 port)
Controller Device Front panel, IR remote, joystick KBD, mouse Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event / PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Serial & I/O	1 RS-232C, 2 RS-485
Web viewer Monitoring / Event / PTZ / Playback with IE Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Relay output	4 relay
Java viewer Monitoring / Event/ PTZ with Chrome, Firefox and Safari Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Software CMS Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Controller Device	Front panel, IR remote, joystick KBD, mouse
Mobile viewer Monitoring with PTZ, iPhone & Adroid supported Control center standard, max 1024 DVRs Dimension 445(W) x 418(D) x 88(H) mm Weight Approx. 9.5 Kg (21 lbs), No HDD Operating temperature 5°C ~ 45°C (41°F ~ 113°F) Power AC 100~240V, 50/60Hz	Web viewer	Monitoring / Event / PTZ / Playback with IE
Software CMSControl center standard, max 1024 DVRsDimension $445(W) \times 418(D) \times 88(H) \text{ mm}$ WeightApprox. 9.5 Kg (21 lbs), No HDDOperating temperature $5^{\circ}C \sim 45^{\circ}C (41^{\circ}F \sim 113^{\circ}F)$ PowerAC 100~240V, 50/60Hz	Java viewer	Monitoring / Event/ PTZ with Chrome, Firefox and Safari
	Mobile viewer	Monitoring with PTZ, iPhone & Adroid supported
WeightApprox. 9.5 Kg (21 lbs), No HDDOperating temperature 5° C $\sim 45^{\circ}$ C (41° F $\sim 113^{\circ}$ F)PowerAC $100\sim240$ V, $50/60$ Hz	Software CMS	Control center standard, max 1024 DVRs
	Dimension	445(W) x 418(D) x 88(H) mm
Power AC 100~240V, 50/60Hz	Weight	Approx. 9.5 Kg (21 lbs), No HDD
	Operating temperature	5°C ~ 45°C (41°F ~ 113°F)
Power consumption Max. 75W Typical 50W	Power	AC 100~240V, 50/60Hz
- v -	Power consumption	Max. 75W Typical 50W

Specifications	
Approval	KC, FCC, CE, RoHS