

HVRM Series High Performance Digital Video Recorder - Mpeg 4

32/ 16 Channel Digital Video Recorder



HVRM Series supports 32/ 16 analog video channels. Video, Audio, and Text Event-Logs are digitized and stored on 4 SATA hard-drives. Using advanced Mpeg 4 Compression average file size is 3-6KB while still maintaining enough clarity for facial-recognition. Due to our Mpeg 4 video compression HVRM series processes video into crisp, clear, 720x480 resolution up to 30 images per second (full D1).

| | |
|--------------------------|--|
| Order Information | HVRM-H3200M HVRM-H1600L HVRM-H1600M HVRM-D1600Q |
| Certificate | FCC, CE, MIC, RoHS |
| Dimension | 445(W) x 388(D) x 88(H) |
| Shipping Weight | 10.4 Kgs |
| Unit per ctn | 1 pcs |

Key Features

- 32/ 16 channel Stand-alone DVR with MPEG4 and JPEG dual codec
- 32 Channel Max. 960/800ips recording with 2CIF (Half D1) resolution (30/25ips per channel)
- 16 Channel Max. 480ips recording with (Full D1) resolution (30ips per channel)
- Adjustable resolution (CIF, 2CIF, 4CIF/D1) and frame rate per channel
- Support JPEG encoding for multi channel network monitoring
- 2 internal and 2 Hot-swappable SATA HDDs (Max. 4 HDDs can be installed)
- Support external storage with Max. 8TB via eSATA or IEEE1394B
- Storage extension via IEEE1394B (800Mbps) for RAID support
- Up to 4ch audio inputs for recording and 1ch output for two-way audio
- Built-in 4 BNC Monitor outputs (each monitor support 1/4/9/16ch and sequential mode)
- Built-in multiplexer for 16ch live monitoring and playback (1/4/9/16ch mode)
- Built-in DVD Writer, USB and eSATA port for data backup
- Support large scaled storage
- PTZ control (support preset) via RS485 / 232
- Support static and dynamic IP for xDSL, Cable-modem user
- Support IR remote controller and external keyboard/joystick via RS485 / 232
- Provide remote monitoring software (Control Center Lite-D Software)
- Built-in Web Server for Web Browser viewing and playback
- Support NTP (Network Time Protocol) for time synchronization

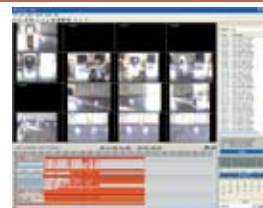
Control Center Standard Software (Optional Software)



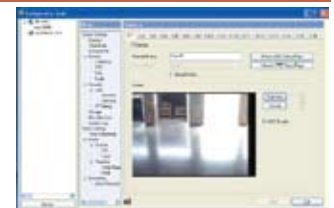
Control center



Mapping feature



Playback



Configuration tool

- Dual Monitor support
- Support Max 128ch simultaneous monitoring (when using dual monitor)
- Various screen division (1/4/9/16/25/36/49/64)
- Alarm Popup and Sequential switch monitor
- Support DirectX Display (Full screen Display is possible)
- Managing and controlling site on Tree GUI
- View Set mode (Group and Map mode for management of each channel)
- Recording (.re3)
- Smart search
- Instant Recording (.re3)
- Image Export (Saving the recorded image in bitmap or jpg)
- Audio in/out
- On Screen PTZ
- Event history Log & Status Panel
- Event Log Search Utility (Searching for relevant image)
- Surveillance Mode
- Map Mode
- Text search

SPECIFICATIONS

| ITEM | HVRM-H3200M | HVRM-H1600L | HVRM-H1600M | HVRM-D1600Q |
|----------------------------|--|-----------------------------|--|--|
| Operating System | Embedded Linux | | | |
| Video Input (BNC, 1Vp-p) | 32 | 16 | 16 | 16 |
| Video Output | 4 BNC (Main, Spot), 1 VGA | 4 BNC (Main, Spot), 1 VGA | 2 BNC (Main, Spot), 1 VGA | 1 Main BNC, 1 Spot BNC, 1 VGA |
| Loop Out (BNC, 1Vp-p) | N/A | 16 with Auto-termination | | |
| Live Displays | 1, 4, 9, 16 | | | |
| Playback Displays | 1, 4, 9, 16 | | | |
| Video Compression | MPEG4, JPEG | H.264 / MJPEG | H.264 / MJPEG | H.264 / MJPEG |
| File Size | 2-3KB @ (CIF), 13K @ (full D1) | | | |
| Live Display Speed | 960/ 800ips (NTSC/PAL) | 480/400ips (NTSC/PAL) | | |
| Record Resolution | D1, HALF D1, CIF | | | |
| Record Speed | 960/960@720x240 (Half D1) | 480/480 @ 720x480 (Full D1) | 480/240 @ 720x480 (Full D1) 480/480 @ 720x240 (Half D1) | 480/120 @ 720x480 (Full D1) 480/240 @ 720x240 (Half D1) 480/480 @ 360 x240 (CIF) |
| Alarm In/Out(Relay) | 16 / 4 | | | |
| Emergency Record Mode | Yes | | | |
| System Control | Key buttons, Remote Client, IR Remote, HKB-400, Mouse Controlled GUI | | | |
| System Control SW | Control Center, Web Browser | | | |
| PTZ control | RS485/RS232 | | | RS485 |
| Video Format | NTSC/PAL | | | |
| Audio | 4ch Input, 1ch Output | | | |
| Display | Brightness, Contrast and Covert Feature | | | |
| Camera Title | 22 Characters per Channel | | | |
| Recording Mode | Schedule, Event (Pre/Post), Manual (Emergency) | | | |
| Recording Quality | 5 Levels of Compression Rate / Record Frame Rate Adjustment | | | |
| Pre/Post Recording | Pre: 5 sec / Post: 60 sec | | | |
| Motion Detection | 22x15 NTSC/ 22x18 PAL | | | |
| Search Mode | Date/Time, Event alarm, Text, Smart search (motion) | | | |
| Playback Modes | Forward, Reverse, Pause, 1x, 2x, 4x, 8x, 16x, 32x, 64x | | | |
| Multiplex Function | Simultaneous Live Display, Playback, Record, Remote Monitoring/Playback | | | |
| Alarm Notification | Automatic E-mail, Internal Buzzer, Relay-Out, Pop-Up Screen, Network Event | | | |
| Support IPFR | Intelligent Power failure recovery | | | |
| Watermark | Yes | | | |
| Password Protection | 2 Level Password (Admin/User) | | | |
| Interface | 2 RS-232C, 2 RS-422/485, 1 Ethernet, 1 USB | | | 1 RS-232C, 2 RS-485, 1 Ethernet, 1 USB |
| Storage | 2 Hot Swappable SATA HDD Plus 2 SATA HDD | | | 4 SATA HDD |
| IEEE 1394 port for storage | Yes | | | |
| Maximum Storage | 8TB | | | |
| Storage Extension | IEEE1394, eSATA | | | |
| Back up | USB, DVDRW, Network, eSATA, 1394B | | | USB, DVDRW, Network, eSATA, 1394A |
| Network | LAN, WAN(xDSL), DHCP, ARP, ICMP, PPPoE, WESP, UDP, TCP/IP, SMTP, FTP | | | |
| Remote Client | Control Center Std. | | | |
| Power | Input: 100-230VAC, 50/60 Hz, | | | |
| Power Consumption | Max 85W, Average 60W | Max 85W, Average 60W | Max 85W, Average 60W | Max 85W, Average 60W |
| Operation Temperature | 0 °C ~ +40°C | | | |
| Storage Temperature | -20 °C~ +60°C | | | |
| Operation Humidity | 93% RH Below | | | |
| Storage Humidity | 95% RH Below | | | |
| Dimension / Weight | 445(W) x 420(D) x 88(H) / 8.8 Kg | | | |

Specifications are Subject to Change without notice.



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