



Hi Performance Embedded Linux Stand Alone DVR



- ✓ *Quality*
- ✓ *Reliability*
- ✓ *Performance*

16 Channel DVR E48016RT-250 Technical Specifications

Parameter	4CH	8CH	16CH
Processor	High performance industry level embedded microprocessor		
Operation System	Linux Embedded operating system		
System Resources	Pentaplex operation: Multi-channel viewing, multi-channel recording, playback, set-up and network operation all simultaneous		
Interface	Friendly GUI (graphic user interface)		
Input Devices	USB mouse, front panel, remote control or network operational		
Input	Built-In Alpha numeric keyboard		
Shortcut	Copy/paste, USB mouse right-key shortcut menu, USB mouse screen switch function		

Video Compression	MPEG-4/H.264		
Audio Compression	PCM		
Video Input	6/8/16CH composite video input: (NTSC/PAL) BNC (1.0VP- P, 75Ω)		
Video Output	2 BNC (1.0VP-P 75 ohm) composite video output, 1 VGA output Switch between BNC and VGA output		
Video Standard	NTSC (525 line, 60f/s), PAL (625 line, 50f/s)		
Recording Speed	Real-time recording: NTSC 1f/s to 30f/s per channel and PAL 1f/s to 25f/s per channel		
Display	1/4 windows	1/4/9 windows	1/4/9/16 windows
Touring	Supported		
Resolution (PAL/NTSC)	Real-time monitor: D1	704×576/704×480	
	Record backup: CIF	52×288/352×240	
Motion Detection	192 (16×12) grid area configurable; multi-level detection sensitivities		
Image Quality	6 level image control selectable per channel		
Area Masking	Random size selection for area masking protection		
Image Information	Channel information, time information and protected area covering information		
TV Adjust	Auto-adjustment for anemographic images; luminance and contrast configurable		
Screen Lock	Specific display screen lockable (Blue screen covered for unauthorized users) to ensure data security		
Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status shown on the bottom left of display screen		
Color Configuration	Hue, luminance, contrast, saturation and signal gain configurable for each channel Hue, luminance, contrast, saturation and signal gain configurable for each channel		

Audio Input	4/8/16CH audio input 200-1000mv 10K Ω
Audio Output	1CH audio output 200-3000mv 5K Ω (RCA)
Hard Disk	Supports up to 8 large capacity Hard Drives
Hard Disk Consumption	Audio PCM 28.8Mbyte/Hour ADPCM 14.4Mbyte/Hour Video 56-900Mbyte/Hour
Hard Disk Management	Hibernating function for non-working Hard Drives reduces power waste and extends life of Hard Drives
Recording Mode	Manual, motion detection, schedule and alarm recording
Recording Duration	1 to 120 minute file record duration configurable (Default 60 minutes)
Overwrite/Stop Mode	Overwrite mode or stop mode selectable when hard disk is full
Record Search	Search record by time, type and channel
Playback	Multi-level fast-forward, multi-level reverse, single frame playback and scroll
Playback	Multiple playback mode, multi-level fast-forward, multi-level slow-forward, single frame playback and so on
Multi-switching Mode	Switch between recorded files Switch between channels recorded at the same time Play recorded files continuously (Auto-play record of the same channel one file after another)
Multi-channel Playback	1 channel, 2 channel or Multi-channel playback for specific mode
Display Zoom	Split screen/adaptive screen/full screen for multi-channel playback
Selective Enlargement	Zoom in feature under full screen mode

Backup Features	Hard Drive backup, External USB storage devices (USB flash memory Removable Hard Drive, USB CD-RW) IDE CD-RW, IDE DVD-RW Network download and backup
Network Control	Real-time monitoring DVR configuration through client and web browser DVR update through client and web browser Check video loss and alarm information Pan-tilt control through Record download and playback Multi-DVR using Central Management Software Duplex transparent serial port Network alarm input and output Voice dialog Multi-screen preview
Motion Detection	192 (16X12) area configurable boxes; multi-level detection sensitivities Relay recording, external alarm and dialog box popup
Video Loss	Relay external alarm output and dialog box popup
External Alarm	Relay recording, external alarm output and dialog box popup
Manual Alarm Control	Enable and disable alarm input Simulate alarm signal to alarm output channel
Alarm Input	16 channel grounding alarm input
Alarm Output	6 channel relay output (1 controllable +12V output)
Alarm Relay	30VDC 2A, 125VAC 1A
USB Port	Connect with external USB devices
Network Interface	RJ45 10M/100M adaptive Ethernet port

RS485	Pan-tilt control interface, multiple protocols supported
RS232	Common serial port, keyboard interface and transparent serial port
Hard Disk Information	IDE interface status, Hard Drive information, working Hard Drive number
Bit Rate Stat.	Bit rate statistic of each channel; bit rate waveform display
System Log	1024 items system log; search log by time and type
System Version	Recording channel number, alarm input & output channel number, system version and release date
Online User	Online user display with lock out function
User Management	Multi-level user management; 48 configurable functions Supports adding and modifying users and groups (no limitation)
Password Protection	Account lock: 5 password input attempt limitation Lock out for 30 minutes
Update	Web browser, client and specific update tool USB flash memory update
Login	Login by user name and password to ensure security
Logout	Logout, shutdown and restart selectable
Shutdown	Shutdown power configurable
Power Supply	220V+25% 50+2% Hz / 110V 60Hz

Power Consumption	25W	30W	40W
Working Temperature	0°C - +55°C		
Working Humidity	10% - 90%		
Working Atmosphere	86kpa - 106kpa		
Size	2U standard size; 440mm(width) × 460(depth) × 89mm(height)		
Weight	7.5 KG		
Installation Mode	Desk top or 19" rackmount		



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