



# WatchNET

Integrated Digital Technologies



## Hi Performance Embedded Linux Stand Alone DVR



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

## 16 Channel DVR E48016RT-250 Technical Specifications

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

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

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

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

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

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



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