4013-28

Touch Screen Rear View System

Key Vaule Highlight

- HD Image Detail
The 4013-28 camera system can deliver image detailed in 720p HD resolution with its 1/3 inch CMOS sensor.

- 8 inch touch screen
The driver can easily enlarge the image by finger-touch on the screen.

- Real-time video with zero delay
The driver can learn the situation at the rear of the vehicle during the driving.

- Plug & play Setup
The install can complete the system with simple plug and play, no need to configure each of the camera front-end.

- SSD storage support
The 4013-28 system can take 2.5 inch SSD harddrive and record footage.

- Ultra Wide Angle View
The 4013-28 camera system can cover 102 degree wide area in front or rear of the vehicle.

- Night vision
The 4013-28 camera system can capture clear image at night with its built-in infrared LEDs.

Typical Application

School bus

Truck

Logistics

Van

other Vehicle

Specification

<table>
<tr><td colspan="2">DVR Specification</td></tr>
<tr><td>Operating System</td><td>Embedded LINUX</td></tr>
<tr><td>Pentaplex</td><td>Simultaneous View, Record, Playback, Backup, and Remote Monitoring</td></tr>
<tr><td>Number of Channels</td><td>4</td></tr>
<tr><td colspan="2">Inputs/Outputs</td></tr>
<tr><td>Video IN</td><td>4 composite video 1 Vpp 75 ohm</td></tr>
<tr><td>Video OUT</td><td>HDMI</td></tr>
<tr><td>USB Port</td><td>2 at the back (one USB 3.0)</td></tr>
<tr><td>Video Output Resolution</td><td>MAX 1080p</td></tr>
<tr><td colspan="2">Display</td></tr>
<tr><td>Live Display</td><td>1, 2x2</td></tr>
<tr><td>Live Display Speed</td><td>120 NTSC, 100 PAL</td></tr>
<tr><td>Monitor</td><td>8 inch LCD</td></tr>
<tr><td>Touch Screen</td><td>Yes</td></tr>
<tr><td>OSD</td><td>ON/OFF</td></tr>
<tr><td>System Navigation</td><td>USB Mouse</td></tr>
<tr><td>Motion Area Setting</td><td>Adjustable grid (22x18)</td></tr>
<tr><td>Sensitivity levels</td><td>1-6</td></tr>
<tr><td>Firmware Upgrade</td><td>via USB device</td></tr>
<tr><td>User Authority</td><td>By user group</td></tr>
<tr><td colspan="2">Recording</td></tr>
<tr><td>Video Compression</td><td>H.264</td></tr>
<tr><td>Resolution</td><td>720P (1280x720)</td></tr>
<tr><td>Record Rate</td><td>NTSC: 120FPS @ 720P
PAL: 100FPS @ 720P</td></tr>
<tr><td>Record Resolution Setting</td><td>Per camera for different resolutions</td></tr>
<tr><td>Recording Quality</td><td>6 Levels</td></tr>
<tr><td>Record Schedule</td><td>By hour, by day, by recording mode, by motion, by channel</td></tr>
<tr><td>Reliability</td><td>Watch-Dog, auto-recovery after power failure</td></tr>
<tr><td>Covert Video</td><td>Yes</td></tr>
<tr><td colspan="2">Playback</td></tr>
<tr><td>Playback Channel</td><td>4</td></tr>
<tr><td>Playback Speed</td><td>Variable Max 8x</td></tr>
<tr><td>Search</td><td>By time & event</td></tr>
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<tr><td colspan="2">Storage</td></tr>
<tr><td>Storage</td><td>Up to 1 HDD (2.5 inch SATA)</td></tr>
<tr><td>Maximum Capacity</td><td>Up to 1 x 1TB</td></tr>
<tr><td>Backup Media</td><td>USB flash drive, HDD, & Network</td></tr>
<tr><td>Backup File Format</td><td>H.264 or AVI file</td></tr>
<tr><td colspan="2">Network</td></tr>
<tr><td>Network Protocol</td><td>HTTP, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter</td></tr>
<tr><td>Network Interface</td><td>10/100–Base-TX, RJ-45</td></tr>
<tr><td colspan="2">DVR General</td></tr>
<tr><td>Power Consumption</td><td>10 watts (No HDD Installed)</td></tr>
<tr><td>Supply Voltage</td><td>12V DC, 2.5A,</td></tr>
<tr><td colspan="2">Camera</td></tr>
<tr><td>Imaging Device</td><td>1.3MP 1/3" CMOS</td></tr>
<tr><td>Effective Pixels</td><td>1280*960</td></tr>
<tr><td>Day / Night</td><td>Auto (ICR) / Color / B/W</td></tr>
<tr><td>Min. Illumination</td><td>0.5lux (Color); 0.05lux (B/W)</td></tr>
<tr><td>S/N Ratio</td><td>>50dB</td></tr>
<tr><td>Field of View (H)</td><td>102°</td></tr>
<tr><td>Lens Type</td><td>2.8mm fixed lens, F1.6</td></tr>
<tr><td>IR Illumination</td><td>Yes, 850nm</td></tr>
<tr><td>Video Output</td><td>1 composite video 1 Vpp 75 ohm</td></tr>
<tr><td colspan="2">Video</td></tr>
<tr><td>Video Compression</td><td>H.264</td></tr>
<tr><td>Resolution</td><td>720P (1280x960)</td></tr>
<tr><td>Aspect Ratio</td><td>16:09</td></tr>
<tr><td>Frame rates (Maximum)</td><td>1.3MP (1280*960)@ 25fps</td></tr>
<tr><td>Wide Dynamic Range</td><td>Digital WDR</td></tr>
<tr><td>Backlight Compensation</td><td>BLC / HLC / DWDR</td></tr>
<tr><td>Noise Reduction</td><td>3D</td></tr>
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