**Product Datasheet**

**Vidistor IP66 Rail Pro Extreme**

Waterproof Ultra-Rugged Mobile DVR – 4/8 or 16 Channel

**Key Features**

- H.264 Compression (Main Profile)
- Real-time Recording at CIF quality (all channels)
- Selectable Record Quality & Frame Rate per camera / per mode (normal & alarm): CIF (D1), 2CIF and 4CIF supported.
- Pentaplex Operation: (Supports Live / Record / Playback/ Transmit modes simultaneously)
- Dual Stream – Optimises Network Speed5 - 3G/WLAN
- Supports Full management and connectivity - 3G/ WLAN
- Supports RS-232 or RS485 data Text Insertion as Meta tag
- Friendly Local Set-Up / Support Interface – USB/ Bluetooth/2.4GHz mouse
- S.M.A.R.T (Self Monitoring Analysis & Reporting Technology)
- WCS (Watermark Check System) – Anti-Tamper for admissible to evidence to court
- Waterproof IP66 construction for Rail and Marine Fleet
- Extreme Temperature Range (-40 ~ +75°C)
- Bespoke Internal Climate Control
- Customisable Mil and Rail spec connector panel
- Extreme vibration and temperature certified

**Specifications**

<table>
<thead>
<tr>
<th>Software Features</th>
<th>Automatic connection of DVR’s for newly coupled vehicles to Driver or Guard’s Control Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to x 64 camera supported by Driver’s Control Interface software</td>
</tr>
<tr>
<td></td>
<td>Supports Multiple Connections to Remote DVR’s simultaneously (Live &amp; Playback)</td>
</tr>
<tr>
<td></td>
<td>Remote Setup (full DVR and IP configuration)</td>
</tr>
<tr>
<td></td>
<td>Remote Event search engine for playback</td>
</tr>
<tr>
<td></td>
<td>Remote Time &amp; Date search engine</td>
</tr>
<tr>
<td></td>
<td>Remote GPS and meta data search engine</td>
</tr>
<tr>
<td></td>
<td>2-way Audio (Bi-directional) – to Driver / Passenger areas with local DVR</td>
</tr>
</tbody>
</table>
## Specifications.....continued

<table>
<thead>
<tr>
<th>Software Features (Continued)</th>
<th>Support instant Archiving on demand via 3G and WLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supports Remote Scheduled archiving of events and user defined time slots.</td>
</tr>
<tr>
<td></td>
<td>Supports multi-user access/function control levels</td>
</tr>
<tr>
<td></td>
<td>Supports automatic emailing of PASCOM alarms with video snapshot image</td>
</tr>
<tr>
<td></td>
<td>Supports automated backup of all alarms to an off-train FTP server via WLAN and 3G</td>
</tr>
<tr>
<td></td>
<td>Supports Automated PUSH diagnostics for DVR and camera health via real-time email alerts.</td>
</tr>
<tr>
<td></td>
<td>Supports GPS fleet tracking to help fleet managers locate last location of remote infrastructure</td>
</tr>
</tbody>
</table>

### Hardware

<table>
<thead>
<tr>
<th>Customisation Options (Pre-order only)</th>
<th>Choice of IP66 Chassis connectors: Amphenol / AB / Harting (M12) / Binder</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Own Label Branding and Chassis colour choice</td>
</tr>
<tr>
<td></td>
<td>Custom Chassis mounting options</td>
</tr>
<tr>
<td></td>
<td>Removable HDD access door</td>
</tr>
<tr>
<td>Certifications</td>
<td>Rail EMC and EMI: EN50121-2-3:2006</td>
</tr>
<tr>
<td></td>
<td>Rail Environmental: EN50155:2007</td>
</tr>
<tr>
<td></td>
<td>Rail Vibration: EN61373</td>
</tr>
<tr>
<td>Operating System</td>
<td>Embedded Linux OS</td>
</tr>
<tr>
<td></td>
<td>Firmware Linux OS in Flash Memory</td>
</tr>
<tr>
<td>NTSC/PAL Selectable</td>
<td>Video Input Composite: 4 / 8 / 16</td>
</tr>
<tr>
<td>Max Recording Rate at CIF (FPS)</td>
<td>480 (NTSC) / 400 (PAL) / 25 IPS Per Camera</td>
</tr>
<tr>
<td>Ethernet</td>
<td>10 / 100 / 1000 Mbps via M12</td>
</tr>
<tr>
<td>Network Bandwidth Control</td>
<td>26 kbps - Unlimited</td>
</tr>
<tr>
<td>Video Stream</td>
<td>Dual (Record &amp; Transmission)</td>
</tr>
<tr>
<td>Alarm Input</td>
<td>2 (TTL) Programmable as NC/NO</td>
</tr>
<tr>
<td>Alarm Output</td>
<td>2 (TTL) Programmable as NC/NO</td>
</tr>
<tr>
<td>Alarm Input</td>
<td>4 (TTL)</td>
</tr>
<tr>
<td>USB Interface</td>
<td>x3 USB (x1 Front Panel, x2 Rear Panel)</td>
</tr>
</tbody>
</table>
## Vidistor IP66 Rail Pro Extreme

### Specifications.....continued

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search</td>
<td>Date/Time, Calendar, Event, Smart Search, GPS, G-Sensor Event</td>
</tr>
<tr>
<td>User Interface (Keyboard)</td>
<td>Mouse via M12</td>
</tr>
<tr>
<td>Archive File Format</td>
<td>AVI, MPG, DIVX, H264, JPG2000</td>
</tr>
<tr>
<td>SMTP Server</td>
<td>YES</td>
</tr>
<tr>
<td>Time Server</td>
<td>YES (GPS / TPS)</td>
</tr>
<tr>
<td>Auto DST</td>
<td>YES</td>
</tr>
<tr>
<td>Recording Quality</td>
<td>Super / High / Standard (D1 / Half D1 / CIF)</td>
</tr>
<tr>
<td>Recording Modes</td>
<td>Continuous / Alarm / Motion / Emergency / Scheduled</td>
</tr>
<tr>
<td>Pre-Alarm Recording</td>
<td>YES - User Programmable pre and post alarm</td>
</tr>
<tr>
<td>Motion Detection</td>
<td>22 x 15 Zones per Camera</td>
</tr>
<tr>
<td>Playback Control</td>
<td>x1, x2, x4, x8, x16, x32, x64</td>
</tr>
<tr>
<td>PTZ Control</td>
<td>YES - Via RS485 / 422 Serial Port (M12)</td>
</tr>
<tr>
<td>Preset Touring</td>
<td>YES (If head supports)</td>
</tr>
<tr>
<td>POS / ATM Support</td>
<td>1 + 2 (Optional)</td>
</tr>
<tr>
<td>Multi-Language, 3G Communication, S Mobile</td>
<td>YES - (Windows 6.1 or higher) / Android / Blackberry / iPhone 3G partial VPN support</td>
</tr>
<tr>
<td>Primary Storage</td>
<td>eSATA HDD (&gt;2TB)</td>
</tr>
<tr>
<td>Clip Copy Storage</td>
<td>Built-in Internal DVD-RW, Memory Stick, CF Card supported</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>540mm x 120mm x 250mm</td>
</tr>
</tbody>
</table>

### Integrated Power Distribution Unit

<table>
<thead>
<tr>
<th>Function</th>
<th>Balanced Wide Ranged Supply</th>
</tr>
</thead>
</table>
| Input Power | 20-30VDC  
7A ± 5% |
| Max Output Current | 12V ± 5% |
| Output Power          | 12V ± 5% |
| DVR Out 1             | 12V ± 5% |
| Camera Out 2           | 12V ± 5% |
| Camera Out 3           | 12V ± 5% |

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## Vidistor IP66 Rail Pro Extreme

### Integrated Power Distribution Unit....continued

<table>
<thead>
<tr>
<th>Function</th>
<th>Protected Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Power</td>
<td></td>
</tr>
<tr>
<td>Camera Out 4</td>
<td>12V ± 5%</td>
</tr>
<tr>
<td>Camera Out 5</td>
<td>12V ± 5%</td>
</tr>
<tr>
<td>Camera Out 6</td>
<td>12V ± 5%</td>
</tr>
<tr>
<td>Camera Out 7</td>
<td>12V ± 5%</td>
</tr>
<tr>
<td>Camera Out 8</td>
<td>12V ± 5%</td>
</tr>
<tr>
<td>Camera Out 9</td>
<td>12V ± 5%</td>
</tr>
<tr>
<td>Output Current</td>
<td></td>
</tr>
<tr>
<td>DVR Out 1</td>
<td>2,5A ± 5%</td>
</tr>
<tr>
<td>Camera Out 2</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 3</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 4</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 5</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 6</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 7</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 8</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Camera Out 9</td>
<td>0,2A ± 5%</td>
</tr>
<tr>
<td>Spike / Load Dump Protection</td>
<td>Yes 33VDC Limiter</td>
</tr>
<tr>
<td>Short Circuit Proof</td>
<td>Yes</td>
</tr>
<tr>
<td>Negative Input Power Proof</td>
<td>Yes</td>
</tr>
<tr>
<td>Fuse Type</td>
<td>Resettable PTCs</td>
</tr>
<tr>
<td>LED Indication</td>
<td></td>
</tr>
<tr>
<td>Version / S</td>
<td>No</td>
</tr>
<tr>
<td>Version / L</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Start Up</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Turn Off</td>
<td>Yes</td>
</tr>
</tbody>
</table>