### Penta-Brid 8MP series

<table>
<thead>
<tr>
<th>Model</th>
<th>PNT-0480</th>
<th>PNT-0880</th>
<th>PNT-1680</th>
<th>PNT-0880AI</th>
<th>PNT-1680AI</th>
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<tbody>
<tr>
<td><strong>Product Image</strong></td>
<td><img src="482x556.png" alt="Image" /></td>
<td><img src="159x231.png" alt="Image" /></td>
<td><img src="373x511.png" alt="Image" /></td>
<td><img src="446x511.png" alt="Image" /></td>
<td><img src="565x83.png" alt="Image" /></td>
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<tr>
<td><strong>Chassis Type</strong></td>
<td>Mini 1U Penta-Brid</td>
<td>Mini 1U Penta-Brid</td>
<td>Mini 1U Penta-Brid</td>
<td>1U Penta-Brid</td>
<td>1U Penta-Brid</td>
</tr>
<tr>
<td><strong>SD/HD Analog Camera Inputs (XVI)</strong></td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td><strong>IP Camera Inputs</strong></td>
<td>4+2=6</td>
<td>8+4=12</td>
<td>16+8=24</td>
<td>8+8=16</td>
<td>16+16=32</td>
</tr>
<tr>
<td><strong>Monitor Outputs</strong></td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
</tr>
<tr>
<td><strong>Max. Recording Resolution</strong></td>
<td>8MP (XVI) / 8MP (IP)</td>
<td>8MP (XVI) / 8MP (IP)</td>
<td>8MP (XVI) / 8MP (IP)</td>
<td>8MP (XVI) / 8MP (IP)</td>
<td>8MP (XVI) / 8MP (IP)</td>
</tr>
<tr>
<td><strong>Supported Cameras</strong></td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
</tr>
<tr>
<td><strong>Max. Recording Frame Rate</strong></td>
<td>30FPS @ 1080p</td>
<td>30FPS @ 1080p</td>
<td>30FPS @ 1080p</td>
<td>30FPS @ 1080p</td>
<td>30FPS @ 1080p</td>
</tr>
<tr>
<td><strong>Hard Drive Bays Supported</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Max. SATA Drive Supported</strong></td>
<td>10TB</td>
<td>10TB</td>
<td>10TB</td>
<td>10TB</td>
<td>10TB</td>
</tr>
<tr>
<td><strong>Built-in PoE Network Ports</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>LAN Ports (10/100/1000Mbps)</strong></td>
<td>Yes (Single)</td>
<td>Yes (Single)</td>
<td>Yes (Single)</td>
<td>Yes (Single)</td>
<td>Yes (Single)</td>
</tr>
<tr>
<td><strong>RAID Support</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Audio Inputs (RCA)</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Audio Outputs (RCA)</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Alarm Inputs &amp; Relay Outputs</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>8/3</td>
<td>16/3</td>
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### Penta-Brid 2.1MP series

<table>
<thead>
<tr>
<th>Model</th>
<th>PNT-0421</th>
<th>PNT-0821</th>
<th>PNT-1621</th>
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<tr>
<td><strong>Product Image</strong></td>
<td><img src="482x556.png" alt="Image" /></td>
<td><img src="159x231.png" alt="Image" /></td>
<td><img src="373x511.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Chassis Type</strong></td>
<td>Mini 1U Penta-Brid</td>
<td>Mini 1U Penta-Brid</td>
<td>Mini 1U Penta-Brid</td>
</tr>
<tr>
<td><strong>SD/HD Analog Camera Inputs (XVI)</strong></td>
<td>4</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td><strong>IP Camera Inputs</strong></td>
<td>4+2=6</td>
<td>8+4=12</td>
<td>16+8=24</td>
</tr>
<tr>
<td><strong>Monitor Outputs</strong></td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
</tr>
<tr>
<td><strong>Max. Recording Resolution</strong></td>
<td>1080p (XVI/AHD/TVI)/5MP(IP)</td>
<td>1080p (XVI/AHD/TVI)/5MP(IP)</td>
<td>1080p (XVI/AHD/TVI)/5MP(IP)</td>
</tr>
<tr>
<td><strong>Supported Cameras</strong></td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
<td>CVBS/XVI/CVI/TVI/AHD</td>
</tr>
<tr>
<td><strong>Max. Recording Frame Rate</strong></td>
<td>30FPS @ 1080p</td>
<td>30FPS @ 1080p</td>
<td>30FPS @ 1080p</td>
</tr>
<tr>
<td><strong>Hard Drive Bays Supported</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Max. SATA Drive Supported</strong></td>
<td>10TB</td>
<td>10TB</td>
<td>10TB</td>
</tr>
<tr>
<td><strong>Built-in PoE Network Ports</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>LAN Ports (10/100/1000Mbps)</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>RAID Support</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Audio Inputs (BNC)</strong></td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td><strong>Audio Outputs (BNC)</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Microphone Input (BNC)</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Alarm Inputs &amp; Relay Outputs</strong></td>
<td>16 x 6</td>
<td>16 x 6</td>
<td>16 x 6</td>
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</tbody>
</table>

### Penta-Brid EX series

<table>
<thead>
<tr>
<th>Model</th>
<th>PNT-16EXAI</th>
<th>PNT-16EX</th>
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<td><strong>Product Image</strong></td>
<td><img src="482x556.png" alt="Image" /></td>
<td><img src="159x231.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Chassis Type</strong></td>
<td>2U Penta-Brid</td>
<td>2U Penta-Brid</td>
</tr>
<tr>
<td><strong>IP Camera Inputs</strong></td>
<td>48 plus unused BNC ports, system support 64CH total</td>
<td>48 plus unused BNC ports, system support 64CH total</td>
</tr>
<tr>
<td><strong>SD/HD Analog Inputs (XVI)</strong></td>
<td>8MP(CVI/XVI), / 5MP TVI/AHD / 12MP(IP)</td>
<td>Up to 16 CH total (SD/AHD/XVI/CVI/TVI)</td>
</tr>
<tr>
<td><strong>Monitor Outputs</strong></td>
<td>2x HDMI, 1x VGA</td>
<td>2x HDMI (HDMI1 up to 4K), 1x VGA, 1TV</td>
</tr>
<tr>
<td><strong>Max. Recording Resolution</strong></td>
<td>8MP(4K) using CVI/XVI, / 5MP using TVI/AHD / 12MP(IP)</td>
<td>4MP (CVI/XVI/AHD/TVI) / 12MP (IP)</td>
</tr>
<tr>
<td><strong>Hard Drive Bays Supported</strong></td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td><strong>Max. SATA Drive Supported</strong></td>
<td>10TB</td>
<td>8TB</td>
</tr>
<tr>
<td><strong>Built-in PoE Network Ports</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>LAN Ports (10/100/1000Mbps)</strong></td>
<td>Yes (Dual)</td>
<td>Yes (Dual)</td>
</tr>
<tr>
<td><strong>RAID Support</strong></td>
<td>0, 1, 5, 6, 10</td>
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<tr>
<td><strong>Audio Inputs (BNC)</strong></td>
<td>16</td>
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</tr>
<tr>
<td><strong>Audio Output (BNC)</strong></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Microphone Input (BNC)</strong></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Alarm Inputs &amp; Relay Outputs</strong></td>
<td>16 x 6</td>
<td>16 x 6</td>
</tr>
</tbody>
</table>

*Some features are NEW and current stocked models may not yet reflect the change.*
### NVRs

#### Quick Reference Chart

**Model**
- **ENMR2-04POE**
- **ENMR2-08POE**
- **ENMR2-16POE**
- **EN-16POEAI**
- **ENR2S-32**
- **ENR2-32AI**
- **EN-644K**
- **EN-64AI**
- **ENX-128HD**
- **ENX-256HDR2**

**Product Image**

<table>
<thead>
<tr>
<th>Model</th>
<th>ENMR2-04POE</th>
<th>ENMR2-08POE</th>
<th>ENMR2-16POE</th>
<th>EN-16POEAI</th>
<th>ENR2S-32</th>
<th>ENR2-32AI</th>
<th>EN-644K</th>
<th>EN-64AI</th>
<th>ENX-128HD</th>
<th>ENX-256HDR2</th>
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</thead>
<tbody>
<tr>
<td>Chassis Type</td>
<td>1U</td>
<td>1U</td>
<td>1U</td>
<td>1U</td>
<td>1.5U</td>
<td>2U</td>
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<td>IP Camera Inputs</td>
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<td>16</td>
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<td>32</td>
<td>32</td>
<td>64</td>
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</tr>
<tr>
<td>Monitor Outputs</td>
<td>1x HDMI(4K), 1x VGA</td>
<td>1x HDMI(4K), 1x VGA</td>
<td>1x HDMI(4K), 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>1x HDMI, 1x VGA</td>
<td>2x HDMI 4K, 1x VGA</td>
<td>2x HDMI 4K, 1x VGA</td>
<td>2x HDMI 4K, 1x VGA</td>
<td>3x HDMI, 1x VGA</td>
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<tr>
<td>Max. Recording Resolution</td>
<td>8MP(4K)</td>
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<td>8MP(4K)</td>
<td>12MP</td>
<td>8MP(4K)</td>
<td>12MP</td>
<td>12MP</td>
<td>16MP</td>
<td>12MP(4K)</td>
<td>16MP</td>
</tr>
<tr>
<td>Hard Drive Bays Supported</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>16 (Expandable)</td>
<td>Hot swap</td>
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<td>Max. SATA Drive Supported</td>
<td>10TB</td>
<td>10TB</td>
<td>10TB</td>
<td>8TB</td>
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<td>8TB</td>
<td>10TB</td>
<td>8TB</td>
<td>8TB</td>
<td>8TB</td>
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<tr>
<td>Built-in PoE Network Ports</td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>16</td>
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<td>No</td>
<td>No</td>
<td>No</td>
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<td>LAN Ports (10/100/1000Mbps)</td>
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<td>1</td>
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<tr>
<td>RAID Support</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>No</td>
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<td>Two-way Talk</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Audio Output</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Alarm Inputs &amp; Relay Outputs</td>
<td>N/A</td>
<td>N/A</td>
<td>4 x 2</td>
<td>4 x 2</td>
<td>16 x 4</td>
<td>16 x 4</td>
<td>16 x 8</td>
<td>16 x 6</td>
<td>16 x 8</td>
<td>16 x 8</td>
</tr>
</tbody>
</table>

**UNIQUE CCTV Mode**
- **250m / 820ft**

**Extended Range PoE**

**Professional Switches Designed for the CCTV Industry**

- **POESW08**
  - **8+2 Port Unmanaged PoE/PoE+ Switch**
  - 8 PoE 10/100 Downlink Ports
  - 2 Gigabit Uplink RJ45 Ethernet Ports
  - Special 250m/820ft CCTV Mode
  - No Frame Loss IP Data Transmission
  - 6KV Lightning Protection
  - PoE Max. Power Output - 80W
  - Voltage input - DC 48V ~ 57V
  - 200mm x 101.8mm x 27mm / 7.87" x 4" x 1.06" (compact)
  - 500g / 1.10lb
  - Rack Mount for POESW08

- **POESW16**
  - **16+2 Port Unmanaged PoE/PoE+ Switch**
  - 16 PoE 10/100 Downlink Ports
  - 2 Gigabit Uplink RJ45 Ethernet Ports
  - 1 Gigabit Fiber Port (SFP)
  - Special 250m/820ft CCTV Mode
  - No Frame Loss IP Data Transmission
  - 6KV Lightning Protection
  - PoE Max. Power Output - 120W
  - Voltage input - DC 24V
  - 442mm x 285mm x 44.5mm / 17.4" x 11.22" x 1.75" (compact)
  - 270kg / 601lb
  - Rack mount bracket included.

- **POESW24**
  - **24+2 Port Managed PoE/PoE+ Switch**
  - 24 PoE 10/100/1000 Downlink Ports
  - 2 Gigabit Uplink RJ45 Ethernet Ports
  - 2 Gigabit Fiber Port (SFP)
  - L2 Management
  - Support 100 Meter Standard Transmission
  - No Frame Loss IP Data Transmission
  - 6KV Lightning Protection
  - PoE Max. Power Output - 370W
  - Voltage Input - AC 100V ~ 240V
  - 442mm x 315mm x 44.5mm / 17.4" x 12.4" x 1.75" (compact)
  - 545kg / 1199lb
  - Rack mount bracket included.

- **SW08**
  - **8 Port Non PoE Gigabit Switch**
  - 8 Port Gigabit Ethernet Switch
  - Plug and Play
  - Transmission Distance 0 to 100 Meter
  - IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x standards
  - Voltage Input - DC 5V
  - Power Consumption - <2W
  - Operating Distance 0 to 100 Meter
  - **Dimensions**
    - 200mm x 101.8mm x 27mm / 7.87" x 4" x 1.06"
    - 800g / 1.76lb

*Some features are NEW and current stocked models may not yet reflect the change.*
<table>
<thead>
<tr>
<th>Model</th>
<th>MPX-80IRBFT</th>
<th>MPX-80IRBT</th>
<th>MPX-80VDV-IRM</th>
<th>MPX-80BIMR</th>
<th>MPX-80VDF-IR28R2</th>
<th>MPX-12-360-FIR</th>
<th>MPX-60-360-FIR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Image</strong></td>
<td>3 AXIS</td>
<td>3 AXIS</td>
<td>3 AXIS</td>
<td>3 AXIS</td>
<td>3 AXIS</td>
<td>1.83mm fisheye</td>
<td>1.83mm fisheye</td>
</tr>
<tr>
<td><strong>Lens Focal Length</strong></td>
<td>2.8mm</td>
<td>2.7-12mm motorized</td>
<td>2.7-12mm motorized</td>
<td>2.7-12mm motorized</td>
<td>2.8mm</td>
<td>1.83mm fisheye</td>
<td></td>
</tr>
<tr>
<td><strong>Min. Scene Illumination</strong>(color/BW)</td>
<td>0.06Lux/0lux</td>
<td>0.01Lux/0lux</td>
<td>0.05Lux/0lux</td>
<td>0.05Lux/0lux</td>
<td>0.02Lux/0Lux</td>
<td>0.009Lux/0lux</td>
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</tr>
<tr>
<td><strong>Built-in Infrared Illuminator</strong></td>
<td>50m/164ft</td>
<td>50m/164ft</td>
<td>50m/164ft</td>
<td>50m/164ft</td>
<td>30m/98ft</td>
<td>6x LED, 15m/49ft</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Resolution</strong></td>
<td>8MP</td>
<td>8MP</td>
<td>8MP</td>
<td>8MP</td>
<td>8MP</td>
<td>12MP</td>
<td>6MP</td>
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<td><strong>Audio Input/Output</strong></td>
<td>No / No</td>
<td>No / No</td>
<td>1 / 1</td>
<td>No / No</td>
<td>No / No</td>
<td>No / No</td>
<td></td>
</tr>
<tr>
<td><strong>Alarm Input/Output</strong></td>
<td>No / No</td>
<td>No / No</td>
<td>1 / 1</td>
<td>No / No</td>
<td>No / No</td>
<td>No / No</td>
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</tr>
<tr>
<td><strong>Micro SD Memory Card Slot</strong></td>
<td>128GB max</td>
<td>128GB max</td>
<td>128GB max</td>
<td>128GB max</td>
<td>128GB max</td>
<td>128GB max</td>
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</tr>
<tr>
<td><strong>External Power Supported</strong></td>
<td>DC12V, 6W</td>
<td>DC12V, PoE, 8.5W</td>
<td>DC12V/AC24V, 15W</td>
<td>DC12V, PoE, 12.95W</td>
<td>DC12V, 8.9W</td>
<td>DC12V/AC24V, 8W</td>
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</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
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</tr>
<tr>
<td><strong>Weather/Vandal Rating</strong></td>
<td>IP67 / No</td>
<td>IP67 / No</td>
<td>IP67 / IK10</td>
<td>IP67 / IK10</td>
<td>IP67 / IK10</td>
<td>IP67 / No</td>
<td></td>
</tr>
<tr>
<td><strong>Wall Mount</strong></td>
<td>BRACK-WM-49</td>
<td>BRACK-WM-48</td>
<td>BRACK-WM-63</td>
<td>Included</td>
<td>Included</td>
<td>BRACK-MX-60-360 / BRACK-WM-TILT</td>
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*Some features are NEW and current stocked models may not yet reflect the change.*
### IP Cameras

**Product Image**

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**Model**

### Specialty Anti-Corrosion Cameras

**Product Image**

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**Model**

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*Some features are NEW and current stocked models may not yet reflect the change.*

- **4CH NVR Fast Pack**
  - 4 Channel
  - 4 Cameras
  - 4CH Mpix Kit
  - 4.0 Megapixel IP Cameras
  - 4 CH ENM2R NVR w/ 1TB HDD
  - 4 Port PoE Built In
  - ENM-04KIT4-40IRBFT (MPIX-40IRBFTL)
    - 2.8mm Lens
  - x4

- **8CH NVR Fast Pack**
  - 8 Channel
  - 6 Cameras
  - 8CH Mpix Kit
  - 4.0 Megapixel IP Cameras
  - 8 CH ENM2R NVR w/ 2TB HDD
  - 8 Port PoE Built In
  - ENM-08KIT6-40IRBFT (MPIX-40IRBFTL)
    - 2.8mm Lens
  - x6

- **16CH NVR Fast Pack**
  - 16 Channel
  - 8 Cameras
  - 16CH Mpix Kit
  - 4.0 Megapixel IP Cameras
  - 16 CH ENM2R NVR w/ 2TB HDD
  - 16 Port PoE Built In
  - ENM-16KIT8-40IRBFT (MPIX-40IRBFTL)
    - 2.8mm Lens
  - x8

- **Warranty term benefits**
- **Demo equipment purchase plan**
- **Ask your local representative on how to sign up today!**

**MPIX PoE IP MegaPixel Fast Pack Kits**

- **4CH NVR Fast Pack**
- **8CH NVR Fast Pack**
- **16CH NVR Fast Pack**

Sign UP today for exclusive dealer pricing!
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<td>0.02lux/0lux</td>
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<td>0.05lux/0lux</td>
<td>0.02lux/0lux</td>
<td>0.05lux/0lux</td>
<td>0.02lux/0lux</td>
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<tr>
<td><strong>Built-in Infrared Illuminator</strong></td>
<td>80m/267ft, Smart IR</td>
<td>60m/197ft, Smart IR</td>
<td>60m/197ft, Smart IR</td>
<td>50m/164ft, Smart IR</td>
<td>60m/197ft, Smart IR</td>
<td>50m/164ft</td>
<td>30m/98ft</td>
<td>30m/98ft</td>
<td>20m/65ft, Smart IR</td>
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<tr>
<td><strong>Wide Dynamic Range (120dB)</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Max. Resolution (HD Analog)</strong></td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
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<tr>
<td><strong>Audio Input/Output</strong></td>
<td>No/No</td>
<td>1/Yes</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
</tr>
<tr>
<td><strong>Alarm Input/Output</strong></td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
<td>No/No</td>
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<tr>
<td><strong>Power Requirement</strong></td>
<td>DC12V/AC24V, 11.1W</td>
<td>DC12V, 5.4</td>
<td>DC12V, 10W</td>
<td>DC12V, 3.2W</td>
<td>DC12V/AC24V, 6.9W</td>
<td>DC12V/AC24V, 2.5W</td>
<td>DC12V, 5W</td>
<td>DC12V, 4.7W</td>
<td>DC12V, 3.5W</td>
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<tr>
<td><strong>Operating Temperature</strong></td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
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<td>-30°C to +60°C</td>
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<tr>
<td><strong>Back Box</strong></td>
<td>BRACK-PM-06</td>
<td>BRACK-PM-06</td>
<td>N/A</td>
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<td>BRACK-PM-06</td>
<td>N/A</td>
<td>BRACK-PM-06</td>
<td>BRACK-PM-06</td>
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<tr>
<td><strong>Pendant Mount</strong></td>
<td>N/A</td>
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<td>BRACK-PM-06</td>
<td>BRACK-PM-06</td>
<td>BRACK-PM-06</td>
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<td>BRACK-PM-06</td>
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<td>N/A</td>
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*Some features are NEW and current stocked models may not yet reflect the change.*
<table>
<thead>
<tr>
<th>PTZ Model</th>
<th>XVI-21IRPTZ</th>
<th>XVI-21MP12X</th>
<th>XVI-21MP4X</th>
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<tr>
<td>Product Image</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
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<tr>
<td>Lens Focal Length</td>
<td>4.8-120mm</td>
<td>5.1-61.2mm</td>
<td>2.7-11mm</td>
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<td>Min. Scene Illumination</td>
<td>0.05lux/0.005lux</td>
<td>0.05lux/0.005lux</td>
<td>0.05lux/0.005lux</td>
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<td>Optical Zoom Ratio</td>
<td>25X</td>
<td>12X</td>
<td>4X</td>
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<td>Digital Zoom</td>
<td>16X</td>
<td>16X</td>
<td>16X</td>
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<tr>
<td>Day/Night Mode</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Built-in Infrared Illuminator</td>
<td>200m/656ft</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Backlight Compensation</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Wide Dynamic Range (120dB)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Max. Resolution (HD Analog)</td>
<td>2.1MP</td>
<td>2.1MP</td>
<td>2.1MP</td>
</tr>
<tr>
<td>Audio Input/Output</td>
<td>Yes / 1</td>
<td>Yes / 1</td>
<td>No / No</td>
</tr>
<tr>
<td>Alarm Input/Output</td>
<td>2 / 1</td>
<td>2 / 1</td>
<td>No / No</td>
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<tr>
<td>Micro SD Memory Card Slot</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<td>Power Requirement</td>
<td>AC24V, 3A</td>
<td>AC24V, 1.5A</td>
<td>DC12V, 10W</td>
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<tr>
<td>Operating Temperature</td>
<td>-40°C to +70°C</td>
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<td>-30°C to +22°F</td>
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<tr>
<td>Weather/Vandal Rating</td>
<td>IP67 / IK10</td>
<td>IP66 / No</td>
<td>IP66 / IK10</td>
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<td>Back Box</td>
<td>BRACK-PTZ-BOX</td>
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<tr>
<td>Wall Mount</td>
<td>Included</td>
<td>Included</td>
<td>BRACK-WM-48</td>
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<tr>
<td>Pendant Mount</td>
<td>BRACK-MPIX-21MP-PEND</td>
<td>BRACK-MPIX-21MP-PEND</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### XVHi Enhanced CVI HD Fast Pack Kits

- **4CH DVR Fast Pack**
  - 4 Channel + 4 Cameras
  - 2.1MP EVI Kit
  - 2.1MP 2.1 MegaPixel Cameras
  - 5.0 MegaPixel Cameras
  - 5.0 MegaPixel Cameras
  - New Penta-Brid Recorder
- **8CH DVR Fast Pack**
  - 8 Channel + 6 Cameras
  - 2.1MP EVI Kit
  - 2.1MP 2.1 MegaPixel Cameras
  - 5.0 MegaPixel Cameras
  - 5.0 MegaPixel Cameras
  - New Penta-Brid Recorder
- **16CH DVR Fast Pack**
  - 16 Channel + 8 Cameras
  - 16CH EVI Kit
  - 2.1MP 2.1 MegaPixel Cameras
  - 5.0 MegaPixel Cameras
  - 5.0 MegaPixel Cameras
  - New Penta-Brid Recorder

### HD VMS

- **A Professional Video Management System**
- Integrating all WatchNET products including IP, Analog and XVI for Cameras, NVRs and Servers

*Some features are NEW and current stocked models may not yet reflect the change.

- Supports interoperability for all WatchNET IP / Analog camera, NVR, XVI and Video Storage
- Supports unlimited IP camera connections by multiple VMS Clients
- Supports SQL Database to centralize security management information
- Versatile live monitoring modes supporting eMap multi-monitor, unlimited floating windows for multiple user views, Event Popup and Auto-Switching
- Supports up to 256 Virtual Matrix & Video Notifications with decentralizing network bandwidth and centralizing security management
- Supports Mobility work style with user group and user account with switching users to share space with security
- Digital PTZ, Digital Zoom and Magnifier
- Auto pop-up and thumb-nail for snapshot and backup
- System event popup for network disconnection, disk failure, system down
- Integrates Fish-Eye and Video Analytics cameras
- Supports Video Duplicating with the similar effect of Multi-cast networking

www.watchnetinc.com
Introducing NEW Products with Artificial Intelligence Functions

**AI Network Video Recorders**

- **EN-64AI**
  - 4K
  - AI Features:
    - Face Detection
    - Face Recognition
    - Line Crossing
    - Fenced Area Protection
    - Plus more when using AI Cameras dependant on model

- **EN-16POEAI**
  - 4K
  - AI Features:
    - Face Detection
    - Face Recognition
    - Line Crossing
    - Fenced Area Protection
    - Plus more when using AI Cameras dependant on model

- **ENR2-32AI**
  - 4K
  - AI Features:
    - Face Detection
    - Face Recognition
    - Line Crossing
    - Fenced Area Protection
    - Plus more when using AI Cameras dependant on model

**AI Penta-Brid DVRs**

- **PNT-16EXAI**
  - AI Functions: ONLY Supported on BNC Inputs, recommended Resolution of 2.1MP or higher:
    - Up to 16 channel Fenced Area Protection/ Line crossing
    - Up to 4 channel video stream face recognition
    - Up to 24 face pictures/sec processing
    - Up to 20 face databases with 100,000 face images in total

- **PNT-0880AI / PNT-1680AI**
  - AI Features:
    - Fenced Area Protection and Smart Detection Classifications
    - AI Support ONLY on BNC inputs, NOT on IP Channels (recommended 2.1MP resolution or higher)

**AI 4MP MPIX Cameras**

- **MPIX-40VDV-IRMAI**
  - Pro AI Functions:
    - Face Capture (Detect & Recognition with attributes)
    - Fenced Area protection
    - People Counting Functions
    - Line Crossing
    - 2.7mm - 12.0mm motorized lens
    - 1/1 Alarm in/out, 1/1 audio in/out
    - Max. IR LEDs Length 40m/131ft
    - Micro SD memory(256GB), WDR, IK10, PoE+

- **MPIX-40BIMRAI**
  - Pro AI Functions:
    - Face Capture (Detect & Recognition with attributes)
    - Fenced Area protection
    - People Counting Functions
    - Line Crossing
    - 2.7mm - 12.0mm motorized lens
    - 1/1 Alarm in/out, 1/1 audio in/out
    - Max. IR LEDs Length 50m/164ft
    - Micro SD memory(256GB), WDR, IK10, PoE+

- **MPIX-40RPTZAI**
  - Pro AI Functions:
    - Face Capture (Detect & Recognition with attributes)
    - Fenced Area protection
    - People Counting Functions
    - Line Crossing
    - Powerful 40x optical zoom
    - 5.6mm - 223mm motorized lens
    - 1/1 Alarm in/out, 1/1 audio in/out
    - Max. IR LEDs Length 500m/1640ft
    - Micro SD memory(256GB), WDR, IP67
    - Auto-tracking Enhanced by AI

*Some features are NEW and current stocked models may not yet reflect the change.*

www.watchnetinc.com
**Access Controllers ENC KITs**

- **WAC-2D2T-ENC KIT**
  - 2 Door 2 Reader
  - • 32 bit controller TCP/IP in Cabinet with Power supply
  - • 2 proximity Readers
  - • Free Software & license for 2 camera integration and up to 8 doors & 3000 users
  - • 10 Proximity Cards
  - Controller/Aux Power Included with battery charger

- **WAC-4D4T-ENC KIT**
  - 4 Door 4 Reader
  - • 32 bit controller TCP/IP in Cabinet with Power supply
  - • 4 proximity Readers
  - • Free Software & license for 2 camera integration and up to 8 doors & 3000 users
  - • 10 Proximity Cards
  - Controller/Aux Power Included with battery charger

- **WAC-4D8T-ENC KIT**
  - 4 Door 8 Reader
  - • 32 bit controller TCP/IP in Cabinet with Power supply
  - • 8 proximity Readers
  - • Free Software & license for 2 camera integration and up to 8 doors & 3000 users
  - • 10 Proximity Cards
  - Controller/Aux Power Included with battery charger

- **WAC-8D8T-ENC KIT**
  - 8 Door 8 Reader
  - • 32 bit controller TCP/IP in Cabinet with Power supply
  - • 8 proximity Readers
  - • Free Software & license for 2 camera integration and up to 8 doors & 3000 users
  - • 10 Proximity Cards
  - Controller/Aux Power Included with battery charger

**Access Controllers 485 KITs**

- **WAC-2D2T-485 KIT**
  - 2 Door 2 Reader
  - • 2 door, 2 readers (WAR-MPX-485)
  - • 32 bit controller with TCP/IP in cabinet w/Power Supply
  - • Free Software (WAS-PRO-008)
  - • 10 cards (WAC-EMC-ISO)

- **WAC-4D4T-485 KIT**
  - 4 Door 4 Reader
  - • 4 door, 4 readers (WAR-MPX-485)
  - • 32 bit controller with TCP/IP in cabinet w/Power Supply
  - • Free Software (WAS-PRO-008)
  - • 10 cards (WAC-EMC-ISO)

**Special Application Controllers**

- **WAI-016-ENC**
  - Digital Input / Output Controller
  - • 8 Outputs Relays (NC/NO)
  - • 32Bits ARM (TI)
  - • Comm. Speed: 19200/9600/4800
  - • Data transfer: Online computer polling
  - • Transmission Range: More than 1200m (4000ft)
  - • Working Temperature: -40°C~70°C
  - • 1 Lithium battery (10 years)
  - • 16 Inputs (NO)
  - • Built in TCP/IP, RS232/RS485 interface
  - • 127 Controllers maximum
  - • 15 Time groups for each Relay
  - • 12VDC or 110/220AC with PSU
  - • Data Memory: 512KB (protected)
  - • Fully Programmable by WatchNET Access Software

- **WAE-016-ENC**
  - Elevator Access Controller
  - • 8 bit ARM processor, 2 Watchdogs
  - • 32KB ROM Process Memory
  - • 1024KB SRAM Data Memory
  - • 30,500 Cardholders, 10,000 Transactions
  - • Up to 128 floors
  - • 4 Extension Inputs, 2 Wiegand Reader (Special Order)
  - • Fire Alarm input will have all Floors Opened
  - • Option: TCP/IP interface (10/100 Base.T)
  - • RS232/RS485 interface
  - • Maximum Distance: 1200 meters (4000ft) using RS485
  - • 127 controllers max. For 1 RS485 bus
  - • Support online computer polling
  - • Communication speed: 9600, 115200 baud
  - • Working Temperature: -40°C ~ 70°C
  - • 12VDC or 110/220AC with PSU
  - • Data Memory: 512KB (protected)

*Some features are NEW and current stocked models may not yet reflect the change.*
### Proximity Readers / Receivers

**Multi technology proximity reader**
- Multi technology / Multi format reader
- Modulation: ASK at 125 kHz
- Maximum read range: 150mm (6.00 in.)
- Output: W26/34 Options
- Operating Voltage: 7-12VDC
- Operating Current: 100mA
- Standby Current: 50mA
- Working Temperature: -30°C to 65°C / -22°F to 149°F
- Operating Humidity: 0 to 95%
- Buzzer Control Input: Dry Contact, Normally Open
- LED Control Input: Dry Contact, Normally Open
- Dimensions: 86mm L x 43mm W x 25mm D
- Weight: 0.290kg / 0.63lbs

**Long Range Wireless Receiver**
- Frequency: 433 MHz
- Installation: Indoor & Outdoor (IP65)
- Cabling: 24 AWG min, multi-conductor stranded with an overall foil shield
- Interface: Wiegand (26 bit standard and custom formats)
- Voltage: 12 VDC
- Transmission: Rolling code + encryption
- Operation Temp.: -40°C to +65°C / -40°F to 149°F
- Dimensions: 260mm x 260mm x 35mm
- Weight: 1.200g (2.64 lbs)

**Mid & Long Range UHF Reader**
- RF output power up to 30dbm (adjustable)
- Standard ISM 865-868MHz, 902~928MHz
- Compliant with CE, FCC/ Multi-Tag Reading
- Support RS232, RS485, Wiegand interface
- Operation Temp.: -35°C~+50°C/-31°F~+122°F
- Storage Temp.: -10°C~+40°C/14°F~+104°F
- Input Power: 100-240V, DC+9V (Power Adapter-included)
- Support auto-running, interactive and trigger-activating work mode

**Card reader**
- Range - Up to 8 inches (203 mm)
- Keypad Output: Wiegand
- Voltage: +5 - 16 VDC
- Audio Tone: Beeper included standard
- LED: Four-state (red, green, amber & off)
- Operating Current: <100mA
- Standby Current: <50mA
- Working Temperature: -40°C to 65°C / -40°F to 149°F
- Frequency: 125 kHz
- Current Draw: 70 mA typical, 110 mA peak @ 12VDC

**Vandal proof reader with keypad**
- Range - 20cm / 7.87"
- Output - 26/34 bit
- Indicators - Blue/Green
- Size - 120mm x 76mm x 21mm
- Frequency - 125 KHz
- Voltage - 7 - 12V DC
- Operating Current - <100mA
- Standby Current - <50mA
- Operating Humidity - 0 to 95%
- Buzzer Control Input / LED Control Input - Dry Contact, N/O
- Weight - 4 oz. (113 g)

### Long Range Identification Transmitters
**WAC-HIT-WT2**
- 433 MHz
- Long Range Identification
- Transmitters with built-in proximity access
- HID (HIT) or AWID (AIT) Format

**WAC-UHF-TAG**
- UHF Sticker for vehicles/articles

*Some features are NEW and current stocked models may not yet reflect the change.*
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**High Security Biometric Finger Print Reader**
- P: Wiegand output format following the card
- U: Standard WG26/34 bits output which can be compatible with any kind of Access Controller
- Dust proof, suitable for any installation site
- Fast response, anti-interference, low power consumption and good stability
- WDT watchdog, having a power-on self-test function
- Fast fingerprint matching speed, 480 fingerprints within one second
- Multithreaded code designed to take advantage of multi-core CPU
- 500dpi optical fingerprint sensor, anti scratch
- The world’s leading fingerprint algorithm, refusing false fingerprints
- POE (Power Over Ethernet)
- Blue / Green light to show Valid or Invalid
- POE (Power Over Ethernet)

**Biometric Access with Card Reader & Keypad**
- Sleek Industrial design with an elegant white LCD
- New generation fully sealed, waterproof and dust-proof fingerprint sensor
- BioNano core fingerprint algorithm that can take care of damaged fingerprints
- Current version of algorithm that makes it a solid platform for T & A and Access Control
- High performance and reliability
- Easy user enrollment on the unit via Enroll Card or through the BioPAZZ management software installed on a computer
- Identification method: fingerprint, card, fingerprint + card
- EM RFID, Mifare card module. Compatible with industrial standard
- Fingerprint Storage Capacity: 2000 Internal
- Communication to server via TCP/IP, RS485
- Standard record capacity: 50000
- Standard Wiegand 26 bit output to connect with most access control systems
- Finger print Storage Capacity: 10000 Internal
- Identification method: fingerprint, card, fingerprint + card
- Communication to server via TCP/IP, RS485
- Standard Wiegand 26 bit output to connect with most access control systems

**Single Door Network Controller**
- 32 bit processor with 4M bit data memory
- Blue backlit, Touch Pad
- Cards holder capacity: 30,000 events
- Transactions storage: up to 15,000
- Work Mode: Card / PIN, Card + PIN, PIN only
- OLED dual color display to indicate Clock, Company, Name, Card No
- Communication: TCP/IP
- Wiegand output, TCP/IP
- 16MB Flash memory +4 MB RAM
- CPU - ARM, 32 Bits, Cortex-M4, 400MHz DSP
- Wiegand output format following the card
- Standard record capacity: 50000
- Communication to server via TCP/IP, RS485
- Standard record capacity: 50000

**Wireless Transmitter / Receiver**
- Wireless point to point / Multipoint transmitter / receiver
- Up to 1000M range under normal conditions
- Selectable 4 channels for distortion free communication
- Interfaces for RS485/232
- Active driver with optical isolation
- 3 LED status indicators
- External interface for easy connection
- Easy configuration through RS232 port (No drivers needed)
- Baud rate: +/-115,200Bps, Buffer space: 5KB
- Built-in Microprocessor controlled circuit for high stability
- Shielded metal enclosure
- Suitable for indoor / outdoor parking / access control
- Auto enrolling transmitter / receiver no set-up required
- Compatible with WatchNET Access Controllers

**Enterprise Class Management Software Included**
- Pop up screens on specific events
- Searching / Add / Delete quickly
- Auto Detection of Controllers
- Easy Icon based navigation
- Software in multiple languages
- Auto or Manual Backup of the Database
- Searching / Add / Delete quickly
- Exporting Events
- Interactive dynamic maps
- Pop up screens on specific events
- Event Email Notification

*Free license limited to 8 doors, 2 cameras, 3000 users, 1 client, basic T/A module.*
Two wire network extension over Coax or UTP

IPEXT-KIT

100 Meters 1200 Meters 2KV
Bandwidth Coax Point-to-Point Surge

IPEXT-KIT includes:
- 1 set of Transmitter (IPEX-1T) & Receiver (IPEX-1R)
- 2 Power Supplies
- 2 sets of Mounting Brackets
- 2 Baluns (Converts Coax cable to UTP)
- Installation Manual

Features:
- IPEXT-KIT consists of two parts: Transmitter (IPEX-1T) and Receiver (IPEX-1R)
- IPEX-1T has one RJ45 input port and two output ports: BNC and RJ45, and one 12V DC port
- IPEX-1R has two input ports: BNC and RJ45, one RJ45 output port and one 12V DC port
- Adopt advanced transmission technology to transmit via:
  - Coax up to 1200m/3937ft
  - Ethernet Cable up to 700m/2296ft
- Single twisted pair up to 700m/2296ft
- Ethernet delay less than 1ms; point to point
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
- Protection: excellent circuit isolation protection, anti-static and anti-interference
- Meets MIT rack installation standard
- Working temperature: 0°C ~ 55°C / 32°F ~ 131°F
- Installation: Plug-and-play, no setting required

IPEXT-KIT includes:
- 1 set of Transmitter (IPEX-1T) & Receiver (IPEX-1R)
- 2 Power Supplies
- 2 sets of Mounting Brackets
- 2 Baluns (Converts Coax cable to UTP)
- Installation Manual

Features:
- IPEXT-KIT consists of two parts: Transmitter (IPEX-1T) and Receiver (IPEX-1R)
- IPEX-1T has one RJ45 input port and two output ports: BNC and RJ45, and one 12V DC port
- IPEX-1R has two input ports: BNC and RJ45, one RJ45 output port and one 12V DC port
- Adopt advanced transmission technology to transmit via:
  - Coax up to 1200m/3937ft
  - Ethernet Cable up to 700m/2296ft
- Single twisted pair up to 700m/2296ft
- Ethernet delay less than 1ms; point to point
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
- Protection: excellent circuit isolation protection, anti-static and anti-interference
- Meets MIT rack installation standard
- Working temperature: 0°C ~ 55°C / 32°F ~ 131°F
- Installation: Plug-and-play, no setting required

IP and POE over Coax Module(Pair)

IPPOECAK-KIT

100 Meters 400 Meters 500 Meters 30W
Bandwidth Cat5/5e/6 Coax PoE/PoE+ Point-to-Point MIT

IPPOECAK-KIT includes:
- 1 set of Transmitter (SV) & Receiver (IPC)
- 2 sets of Mounting Brackets
- Installation Manual

Features:
- IPPOECAK-KIT consists of two parts: Transmitter (SV) and Receiver (IPC)
- SV has one 48-57V DC port, one PoE input port and two output ports: BNC and RJ45
- Adopt advanced transmission technology to transmit via
  - EPOE Coax up to 500m/1640ft
  - EPOE Ethernet Cable up to 400m/1312ft
- Ethernet delay less than 1ms; point to point
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3af/a
- Protection: excellent circuit isolation protection, anti-static and anti-interference
- Meets MIT rack installation standard
- Working temperature: 0°C ~ 55°C / 32°F ~ 131°F
- Installation: Plug-and-play, no setting required

IPPOECAK-KIT includes:
- 1 set of Transmitter (SV) & Receiver (IPC)
- 2 sets of Mounting Brackets
- Installation Manual

Features:
- IPPOECAK-KIT consists of two parts: Transmitter (SV) and Receiver (IPC)
- SV has one 48-57V DC port, one PoE input port and two output ports: BNC and RJ45
- Adopt advanced transmission technology to transmit via
  - EPOE Coax up to 500m/1640ft
  - EPOE Ethernet Cable up to 400m/1312ft
- Ethernet delay less than 1ms; point to point
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3af/a
- Protection: excellent circuit isolation protection, anti-static and anti-interference
- Meets MIT rack installation standard
- Working temperature: 0°C ~ 55°C / 32°F ~ 131°F
- Installation: Plug-and-play, no setting required

*Some features are NEW and current stocked models may not yet reflect the change.

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All products of WatchNET are Certified with:

For PAL Cameras please add (-P) to the part number.

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