Model NV-1613
16-Channel Video Transceiver Hub

Features:

- High-Density 19" 1U high enclosure features 16 ports
- Use with any NVT passive transceiver or hub as a rack-mountable passive transceiver for full motion CCTV at distances up to 750ft (225m)
- Use with any NVT DigitalEQ™ Hub or active receiver as a rack-mountable passive transmitter for distances up to 3,000ft (1km)
- Use with any NVT StubEQ™ for distances up to 1,500ft (460m)
- RJ45 video connectivity with optional NV-RJ45A RJ45 to screw terminal adaptors included
- No power required
- Exceptional interference rejection
- Built-in transient protection
- Supports “up-the-coax” type control signal up to 750ft (225m)
- Compatible with qualified UTP cameras
- Includes sixteen 2ft (60cm) coax jumper cables and rackmount hardware
- Limited lifetime warranty

The NVT Model NV-1613 is a 16 port passive transceiver hub that allows transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) telephone wire. Baseband (composite) signals of any type are supported.

“Up-the-coax” type signal may be sent over the same wire pair at distances up to 750ft (225m).

The unparalleled interference rejection ability of the Model NV-1613 Hub allows video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. Perfect for larger CCTV installations where port density and camera number growth are prevalent. With built-in transient protection, damaging voltage spike problems are eliminated.
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Technical Specifications

**VIDEO DISTANCE RECOMMENDATIONS**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>CAT 5 Wire Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 MHz</td>
<td>235 ft (71m)</td>
</tr>
<tr>
<td>4 MHz</td>
<td>315 ft (96m)</td>
</tr>
<tr>
<td>5 MHz</td>
<td>400 ft (122m)</td>
</tr>
<tr>
<td>6 MHz</td>
<td>475 ft (145m)</td>
</tr>
<tr>
<td>7 MHz</td>
<td>550 ft (168m)</td>
</tr>
<tr>
<td>8 MHz</td>
<td>630 ft (192m)</td>
</tr>
<tr>
<td>9 MHz</td>
<td>700 ft (213m)</td>
</tr>
<tr>
<td>10 MHz</td>
<td>780 ft (237m)</td>
</tr>
</tbody>
</table>

**WIRE TYPE**
- Network Wiring: One Unshielded Twisted Pair
- Category Type: 2 or better
- Impedance: 100 ± 20 ohms
- DC Loop Resistance: 52 ohms per 1,000ft (18 ohms per 100m)
- Differential Capacitance: 19 pF/ft max (62 pF/m max)

**POWER**
- No external power required

**ENVIRONMENTAL**
- Ambient temperature: -22 to +167 °F (-30 to +75 °C)
- Humidity (non-condensing): 0 to 95%
- Transient Immunity: per ANSI / IEEE 587 C62.41

**MECHANICAL**
- Dimensions, excluding brackets and connectors: 4,2lbs (1.9kg)
- Dimensions: 17in wide, 1.7in high, 8.125in deep
- Mounting: 43cm wide, 4.3cm high, 20cm deep
- Wall, desk, or rack mount

**ACCESSORIES** (Included)
- Mounting: Rack mount “L” brackets for front, rear, or wall installations; rubber feet for desk applications
- Cables: Sixteen 2ft (60cm) coax jumpers and one 7ft (200cm)
- Adaptors: Four NV-RJ45A RJ45 to screw-terminal adaptors

Specifications subject to change without notice.

Typical Applications

**Passive to Passive Application up to 750ft (225m)**

- NV-208A-M
- Punch block (IDF)
- Backbone
- Punch block (IDF)
- NV-1613
- DVR / NVR
- Monitor

**Passive to Active Application up to 3,000ft (1km)**

- NV-1613
- Backbone
- Punch block (IDF)
- DVR / NVR
- Monitor

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