Model NV-1672
16-Channel DigitalEQ™ Active Receiver Distribution Amplifier Hub

Features:

• Adaptive DigitalEQ™ fully automatic 4-band equalization provides adjustment-free equalization every time

• Compact rack-mountable 19” 1U high enclosure features 16 channels with 2 outputs per channel

• Full motion CCTV video at distances up to 3,000ft (1km) when used with any passive NVT transceiver or hub; 1 mile (1.6km) when used with the NV-653T active transmitter; 1,000ft (300m) with shielded twisted-pair when used with any passive NVT transceiver or hub

• RJ45 connectivity with optional NV-RJ45A RJ45-to-screw-terminal adaptors (included)

• Exceptional interference rejection

• Built-in transient protection and ground-lifting

• Automatic compensation for reverse-polarity wiring

• At-a-glance per-channel diagnostics

• Compatible with qualified UTP cameras

• Includes sixteen 2ft (60cm) coax jumper cables, rack mount hardware and four NV-RJ45A adaptors

• Limited lifetime warranty

Employing NVT’s latest generation DigitalEQ™ technology, the NV-1672 is an 16-channel active (amplified) hub that allows the transmission of full-motion monochrome or color video for distances up to 1 mile (1.6km) using Category 2 or better unshielded twisted-pair (UTP) wire. The receiver hub continuously and automatically conditions the video signal, compensating for cable attenuation, wiring polarity, ground loops, and voltage transients, independent of video signal content.

The unparalleled interference rejection and low emissions allow long run video to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. this allows the use of shared or existing cable plant. Ground-lifting ensures no annoying “hum-bars” when ground-potential differences exist. With built-in transient protection, damaging voltage spikes are eliminated.
Model NV-1672
16-Channel DigitalEQ™ Active Receiver Distribution Amplifier Hub

Technical Specifications

**RECOMMENDED WIRE DISTANCE**

<table>
<thead>
<tr>
<th>Frequency Response</th>
<th>DC to 10 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equalization</td>
<td>0.5 dB typ</td>
</tr>
<tr>
<td>Automatic adjustment</td>
<td>0 to 3000ft (0 to 1km)</td>
</tr>
<tr>
<td>Automatic polarity detection and control</td>
<td>for NTSC or PAL standards</td>
</tr>
<tr>
<td>Common-mode / Differential-mode rejection</td>
<td>15 KHz to 5 M Hz</td>
</tr>
<tr>
<td>Impedance</td>
<td>Coax, female BNC 75 ohms</td>
</tr>
<tr>
<td>UTP, Screw terminal block or RJ45 100 ohms</td>
<td></td>
</tr>
<tr>
<td>Outputs: female BNC NV-1672 has 2 outputs per channel</td>
<td></td>
</tr>
</tbody>
</table>

**WIRE TYPE**

<table>
<thead>
<tr>
<th>Unshielded Twisted Pair</th>
<th>0 to 3,000ft 24-16 AWG (0.5-1.31mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category Type</td>
<td>2 or better</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 ± 20 ohms</td>
</tr>
<tr>
<td>DC Loop Resistance</td>
<td>52 ohms per 1,000ft (18 ohms per 100m)</td>
</tr>
<tr>
<td>Differential Capacitance</td>
<td>19 pF/ft max (62 pF/m max)</td>
</tr>
<tr>
<td>Shielded Twisted Pair</td>
<td>24-16 AWG (0.5-1.31mm)</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 ± 20 ohms</td>
</tr>
<tr>
<td>DC Loop Resistance</td>
<td>52 ohms per 1,000ft (18 ohms per 100m)</td>
</tr>
<tr>
<td>Differential Capacitance</td>
<td>35 pF/ft max (115 pF/m max)</td>
</tr>
</tbody>
</table>

**LEDs**

- **Power On**: Blue LED
- Per-channel status:
  - Off = no signal detected
  - Green = valid video signal
  - Amber = marginal signal detected
  - Red = faulty signal detected

**POWER**

- IEC380 power inlet: 115 / 230V  50 / 60 Hz  160 mA
- 37 Watts  125 BTU / hour
- Power inlet: IEC with molded power cord (included)
- Protection: 5x20mm type T fuse 160mA 250V

**ENVIRONMENTAL**

- Ambient temperature: +32 to +122 °F (0 to +50 °C)
- Minimum airflow: 4 ft /min (0.1m/min)
- Humidity (non-condensing): 0 to 95 %
- Transient Immunity: per ANSI / IEEE 587 C62.41

**MECHANICAL**

- Dimensions, excluding brackets and connectors:
  - 17in wide, 1.7in high, 8.125in deep
  - 43cm wide, 4,5cm high, 20cm deep
- Package weight: 5.5lbs (2.5kg)

**ACCESSORIES** (Included)

- Mounting: Rack mount “L” brackets for front, rear, or wall installations; rubber feet for desk applications
- Cables: Sixteen 2ft (60cm) coax jumpers
- Molded IEC power inlet cord 7ft (200cm)
- Four NV-RJ45A RJ45 to-screw-terminal

Specifications subject to change without notice.
Typical Applications

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

![Diagram showing passive to active application setup](image1)

**Active to Active Application up to 1 mile (1.6km)**

![Diagram showing active to active application setup](image2)