



## Model NV-1642

### 16-Channel StubEQ™ Active Receiver Hub



RJ45 Adaptors  
Included

#### Features:

- Adaptive StubEQ™ fully automatic 2-band equalization provides adjustment-free equalization every time
- Compact rack-mountable 19" 1U high enclosure features 16 channels
- Full motion CCTV video at distances up to 1,500ft (460m) when used with any passive NVT transceiver or hub; 2,000ft (600m) when used with the NV-653T active transmitter
- RJ45 connectivity with optional NV-RJ45A RJ45-to-screw-terminal adaptors (included)
- Exceptional interference rejection
- Built-in transient protection and ground-lifting
- Compatible with qualified UTP cameras
- Includes rack mount hardware and four NV-RJ45A adaptors
- Limited lifetime warranty

Employing NVT's latest generation StubEQ™ technology, the NV-1642 is a 16-channel active (amplified) hub that allows the transmission of full-motion monochrome or color video for distances up to 2,000ft (600m) using Category 2 or better unshielded twisted-pair (UTP) wire. The receiver hub continuously and automatically conditions the video signal, compensating for cable attenuation, 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.

#### Network Video Technologies

4005 Bohannon Drive • Menlo Park, CA 94025 • USA  
(+1) 650.462.8100 • FAX (+1) 650.326.1940  
nvt.com • www.nvt.com/email

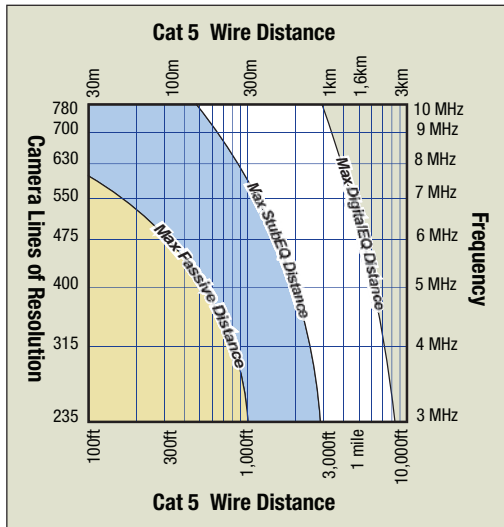


# Model NV-1642

## 16-Channel StubEQ™ Active Receiver Hub

### Technical Specifications

#### VIDEO DISTANCE RECOMMENDATIONS



#### VIDEO

|   |                          |
|---|--------------------------|
| Frequency response                        | DC to 10 MHz             |
| Equalization                              | 0.5 dB typ               |
| Automatic (no adjustment)                 | 0 to 1,250ft (0 to 380m) |
| for NTSC or PAL standards                 |                          |
| Common-mode / Differential-mode rejection |                          |
| 15 KHz to 5 MHz                           | 60 dB typ                |
| Impedance                                 |                          |
| Coax, female BNC                          | 75 ohms                  |
| UTP, Screw terminal block or RJ45         | 100 ohms                 |



- 1 - Ch. 2, 6, 10 or 14
- 2 - Ch. 1, 5, 9 or 13
- 3 - Ch. 3, 7, 11 or 15
- 4 - Ch. 4, 8, 12 or 16

Outputs: female BNC

#### WIRE TYPE

|                          |  |
|--------------------------|--|
| Unshielded Twisted Pair  | 0 to 1,500ft 24-16 AWG (0.5-1.31mm)    |
| 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)             |

#### LEDs

Power: Blue=OK Red=Fault

#### POWER

External 12VDC 1 Amp regulated power module with IEC380-8 inlet and molded power cord (included)

|           |                      |
|-----------|----------------------|
| Voltage   | 115 / 230VAC         |
| Current   | 125mA / 60mA         |
| Wattage   | 15 Watts 50 BTU/Hour |
| Frequency | 50 / 60 Hz           |

#### 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 |                                     |
| Dimensions                                    | 17in wide, 1.7in high, 1.875in deep |
|   | 43cm wide, 4,5cm high, 4,8cm deep   |
| Packaged weight                               | 2.45lbs (1,1kg)                     |

#### ACCESSORIES (Included)

|          |   |
|----------|---|
| Mounting | Rack mount "L" brackets for front, rear, or wall installations; rubber feet for desk applications |
| NV-RJ45A | Four NV-RJ45A RJ45 to-screw-terminal  |

Specifications subject to change without notice.

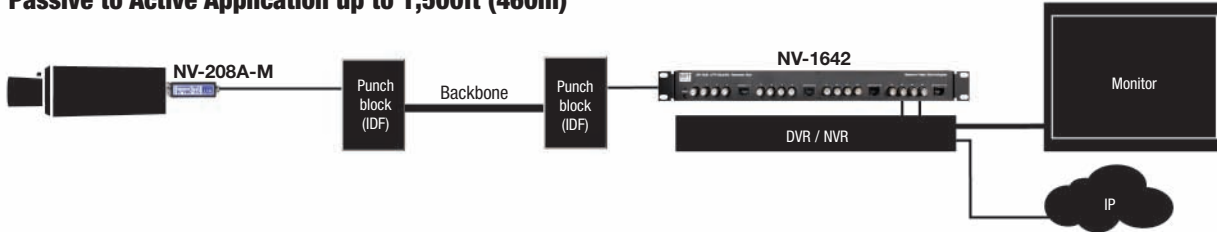
### Network Video Technologies

4005 Bohannon Drive • Menlo Park, CA 94025 • USA  
 (+1) 650.462.8100 • FAX (+1) 650.326.1940  
 nvt.com • www.nvt.com/email

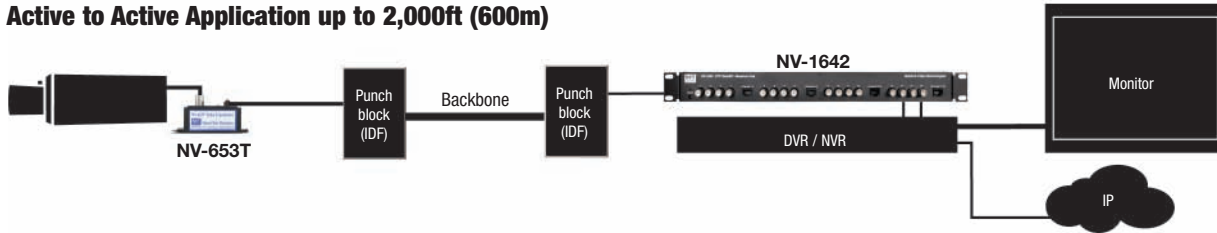


## Typical Applications

### Passive to Active Application up to 1,500ft (460m)



### Active to Active Application up to 2,000ft (600m)



## Network Video Technologies

4005 Bohannon Drive • Menlo Park, CA 94025 • USA  
(+1) 650.462.8100 • FAX (+1) 650.326.1940  
nvt.com • www.nvt.com/email