

TECHNICAL SPECIFICATIONS

RJ45 ETHERNET INTERFACE

Connectivity:	RJ45, auto-crossover
Wire type:	Cat5 or better
Distance:	up to 328ft (100m)
Speed:	10/100 Base T, auto-negotiation auto MDI/MDIX cross-over
Latency:	3mS
Data throughput:	85Mbps ±10% useable bandwidth per network Example: Four megapixel cameras, all sharing one coax network, each sending 20Mbps video stream(s).
Power Output:	This Power Sourcing Equipment (PSE) supports Powered Devices (PDs) that are compatible with IEEE 802.3af/at, or PDs that draw up to 50 watts*. For maximum power/distance, 56 VDC appears on all eight RJ45 pins, and are current protected and transient-protected.

COAX BUILDING WIRING INTERFACE

Connectivity:	BNC, RG-59/U or similar
Impedance:	25 to 100Ω
Distance:	See pages 5 & 6
Topology:	Bus architecture supports star, daisy-chain, or any combination. One control-room NV-EC1701 may support multiple remote NV-EC1701s.
Transmission technology:	IEEE 1901, 128-bit AES encryption

*IMPORTANT NOTE:

Distance will often be shorter due to power supply capacity and wire voltage-drop. See Maximum Per-Camera Wire Distance Chart on page 5.

WARNING: For safety, never use more than two power supplies. Never exceed 120 watts.

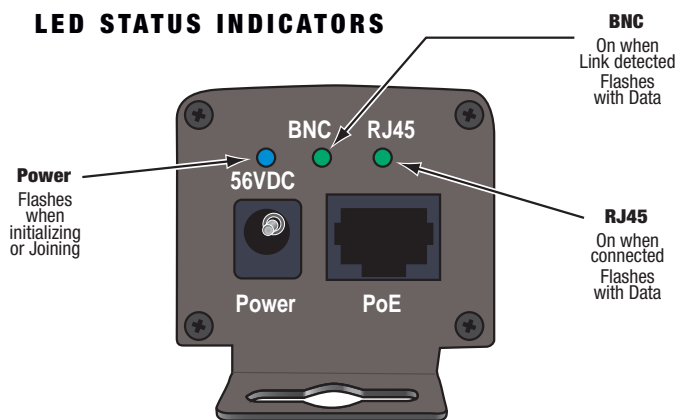
LED STATUS INDICATORS

Power:	Blue "Power On"
BNC Interface:	Green "Link"
RJ45 Interface:	Green "Link"

POWER CONSUMPTION

Consumption per transceiver:	≤ 3.0 W @ 10 to 56 VDC
Total system consumption:	= total consumption of transceivers + total consumption of PDs (IP cameras) + total power dissipated in the wire
Generated heat:	10 BTU/hour

LED STATUS INDICATORS



MECHANICAL

Transceiver body dimensions: (excluding connectors)	4.10 in (102mm) long 1.57 in (40mm) high 1.65 in (42mm) wide
Transceiver weight:	0.32lb. (145g)
Operating and storage temperature:	40°F to 185°F (-40°C to +85°C) 20 to 85% RH non-condensing
Transient Immunity:	5x20μS 3000A, 6000V ESD 20KV, 200pF

POWER SUPPLY

Power supplies are external inline, with an IEC380-C14 power inlet and a 6 ft (1.8 m) line cord. Input voltage is 100~240VAC 50/60Hz. A molded P1J 5.5mm barrel connector provides a class 2 (SELV) regulated output with one of these ratings:

Model NV-PS56-60W	56V 60W 4.90 in (124 mm) long x 2.00 in (51 mm) wide x 1.25 in (32 mm) high 0.67 lb (0.30 Kg) shipping weight
Model NV-PS56-90W	56V 90W 5.77 in (147 mm) long x 2.36 in (60 mm) wide x 1.27 in (32 mm) high 0.94 lb (0.43 Kg) shipping weight

Operating / storage temperature:	-40°F to +185°F (-40°C to +85°C) 20 to 5% relative humidity non-condensing
Transient immunity:	5 x 20μS 3,000A, 6,000V ESD 20KV, 200pF

Use only the power cord provided with the unit or equivalent UL approved type SPT-2, SVT, or SJT 18/3 AWG 100~240 VAC, 1 Amp 60°C max 15 ft (4.5 m) long. One end with IEC380-C13 appliance coupler and the other end with NEMA 1015P or equivalent for your country.

REGULATORY



UL Listed to IEC/UL 60950-1 Complies with FCC part 15A limits

WARRANTY

Limited Lifetime

Specifications subject to change without notice.

Network Video Technologies
(+1) 650.462.8100 • +44 (0) 208 977-6614
nvt.com • info@nvt.com

NV-EC1701 ACCESSORIES

NV-PS56-60W: 56VDC power supply, 60 watts with IEC line cord



NV-PS56-90W: 56VDC power supply, 90 watts with IEC line cord



NV-BNCT: BNC "T" adaptor



NV-EC4BNC: 1:4 BNC splitter adaptor



NV-BNCA: BNC Screw terminal adaptor



NV-RJ45A: RJ45 Screw terminal adaptor



NV-PC4PR: RJ45 Patch Cord, 4-pair 3' (1m) Grey



NV-DPSC4: Detachable Power Supply Cord Splitter 1:4 2ft



NV-RMEC16 Rack mounting chassis, 19" x 1U
Holds up to 4 NV-EC1701 transceivers plus 60W or 90W power supplies.
Includes NV-DPSC4 Power Cord Splitter
(Transceivers and power supplies not included)



Single 60 Watt EoC Transmission System

- NV-EC1701-KIT1: 2 NV-EC1701 Transceivers
 1 NV-PS56-60W Power Supply with IEC line cord
 2 NV-PC4PR patch-cord



Single 90 Watt EoC Transmission System

- NV-EC1701-K1H: 2 NV-EC1701 Transceivers
 1 NV-PS56-90W Power Supply with IEC line cord
 2 NV-PC4PR patch-cord



Dual 60 Watt EoC Transmission System

- NV-EC1701-KIT2: 3 NV-EC1701 Transceivers
 1 NV-PS56-60W Power Supply with IEC line cord
 1 NV-BNCT BNC "T" Adaptor
 3 NV-PC4PR patch-cord



Dual 90 Watt EoC Transmission System

- NV-EC1701-K2H: 3 NV-EC1701 Transceivers
 1 NV-PS56-90W Power Supply with IEC line cord
 1 NV-BNCT BNC "T" Adaptor
 3 NV-PC4PR patch-cord



Triple 60 Watt EoC Transmission System

- NV-EC1701-KIT3: 4 NV-EC1701 Transceivers
 1 NV-PS56-60W Power Supply with IEC line cord
 1 NV-EC4BNC 1:4 BNC splitter adaptor
 4 NV-PC4PR patch-cord



Triple 90 Watt EoC Transmission System

- NV-EC1701-K3H: 4 NV-EC1701 Transceivers
 1 NV-PS56-90W Power Supply with IEC line cord
 1 NV-EC4BNC 1:4 BNC splitter adaptor
 4 NV-PC4PR patch-cord

Quadruple 60 Watt EoC Transmission System

- NV-EC1701-KIT4: 5 NV-EC1701 Transceivers
 1 NV-PS56-60W Power Supply with IEC line cord
 1 NV-EC4BNC 1:4 BNC splitter adaptor
 5 NV-PC4PR patch-cord



Quadruple 90 Watt EoC Transmission System

- NV-EC1701-K4H: 5 NV-EC1701 Transceivers
 1 NV-PS56-90W Power Supply with IEC line cord
 1 NV-BNCT BNC "T" Adaptor
 5 NV-PC4PR patch-cord