
TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION 16 - ELECTRICAL

SECTION 16770 - CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and utilized in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a (U.S. and Canada) technical support number from the manufacturer. The number shall provide technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.

2.02 Ethernet over Coax (EoC) Transceiver, Single Channel

- A. The Ethernet over Coax (EoC) Transceiver shall be capable of transceiving 10/100 Base T Full Duplex Ethernet up to 5,000ft (1,5km) over RG59/U or better coax.
- B. The EoC transceiver shall be able to power PoE IP cameras or other PoE PD devices, up to 45 watts.
- C. One EoC transceiver at the network end can support up to four remote EoC transceivers using BNC "T" Adaptors.
- D. The EoC transceiver shall have built-in transient protection.
- E. The EoC transceiver shall be equipped with female BNC for 75-ohm in/output connections.
- F. The EoC transceiver shall be powered by an external desk style power supply with automatic reset. The power supply shall have an IEC380-C14 power inlet and 6ft (1.8m) line-cord. Input Voltage shall be 100 ~ 240VAC 50-60 Hz. A molded P1J 5.5 barrel connector shall provide a Class 2 (SELV) 48 VDC output.
- G. The EoC transceiver shall have a power consumption of 6.5 W @ 48VDC.
- H. The EoC transceiver shall have the following environmental specifications:

Operating Temperature	14°F to 122°F (-10°C to +50°C)
Storage Temperature	-22°F to 158°F (-30°C to +70°C)
Humidity	20 to 85%, non-condensing
- I. The EoC transceiver shall have a Blue "Power-On" LED.
- J. The EoC transceiver shall have a Green "BNC Link" LED.
- K. The EoC transceiver shall have a Green "RJ45 Link" LED that flashes with link activity.

- L. The EoC transceiver shall meet or exceed the following design and performance specifications:

RJ45 ETHERNET INTERFACE

Connectivity shall be RJ45, auto-crossover; wire type shall be 4-pair Cat5 or better; distance shall be up to 328ft (100m); speed shall be 10/100 Base T, half/full duplex, auto-negotiation

This Power Sourcing Equipment (PSE) and shall support Powered Devices (PDs) up to 45 watts*, compatible with IEEE 802.3at or 802.3af PDs, 48VDC power shall be delivered “always on” on all four wire-pairs

COAX BUILDING WIRING INTERFACE

Connectivity shall be BNC, RG-59/U or similar. Up to four coax cables shall be supported; impedance shall be 50 to 100Ω; distance shall be up to 5,000ft (1,5km)

*Important Note: Distance may often be shorter due to power delivery voltage-drop on the wire. Maximum distances are end-to-end, including any UTP. System architecture shall support the simultaneous use of power supplies at more than one EoC Transceiver.

- M. The EoC transceiver shall have a weight of 4.2 oz (120g), a power supply weight of 10.6 oz, (300g), a power cord weight of 5.5 oz (160g), total weight of 20.3 oz (575 g).
- N. The EoC transceiver shall have dimensions of Length: 4 in (100mm) x Height 1.3 in (33mm) x Width 1.5 in (38mm).
- O. Up to four EoC transceivers shall be able to be rack mounted using NV-RM8/10 Rack Mount Adaptor (not included).
- P. The EoC transceiver shall be UL and cUL listed.
- Q. The EoC transceiver shall be CE compliant.
- R. The EoC transceiver shall be FCC compliant.
- S. The EoC transceiver shall be RoHS compliant.
- T. The EoC transceiver shall be provided with a limited lifetime warranty.
- U. The Ethernet over Coax EoC Transceiver, Single camera device shall be the NVT:
NV-EC1701 ~ Single EoC Transceiver (no power supply)

The accompanying power supply shall be the NVT:
NV-PS48-60W ~ 48VDC, 60 Watt Power Supply

Alternately, EoC Transceiver Systems shall be available in Kit form:

Single camera kit shall be the NVT:
NV-EC1701-KIT1, or equivalent and shall include two NV-EC1701 and one NV-PS48-60W

Two camera kit shall be the NVT:
NV-EC1701-KIT2, or equivalent and shall include three NV-EC1701, one NV-PS48-60W and one BNC T

Three camera kit shall be the NVT:

NV-EC1701-KIT2, or equivalent and shall include four NV-EC1701, one NV-PS48-60W and two BNC Ts

Four camera kit shall be the NVT:

NV-EC1701-KIT2, or equivalent and shall include five NV-EC1701, one NV-PS48-60W and three BNC Ts

a. Approved equal

