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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 toll-free (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 DIGITALEQ ACTIVE RECEIVER DISTRIBUTION AMPLIFIER HUB, 8-CHANNEL  
(SCREW TERMINAL/RJ45 INPUT)

- A. The UTP CCTV DigitalEQ Active Receiver Distribution Amplifier Hub device shall be capable of receiving eight baseband monochrome or color video signals over unshielded twisted-pair (UTP) telephone wire up to a distance of 3,000 feet (1 km) when used with a passive transmitter.
- B. The UTP CCTV DigitalEQ Active Receiver Distribution Amplifier Hub device shall be capable of receiving eight baseband monochrome or color video signals over UTP telephone wire up to a distance of 1 mile (1,6 km) when used with an active transmitter. NTSC distances up to 8,000 ft (2,4 km) shall be achieved when using Category 5 cable.
- C. The UTP CCTV DigitalEQ Active Receiver Distribution Amplifier Hub shall have four video outputs per channel.
- D. The receiving device shall have fully automatic (no adjustment) digital distance equalization for each port, with distance specified for NTSC and PAL standards.
- E. The receiving device shall have built-in ground lifting.
- F. The receiving device shall have automatic polarity detection and control.
- G. The receiving device shall have built-in transient protection.
- H. The receiving device shall be equipped with female RJ45 inputs for connection to UTP wire.
- I. The receiving device shall be accessory equipped with (2 each), Model number NV-RJ45A RJ45 to Screw Terminal Adaptors (568B)
- J. The receiving device shall be equipped with female BNC outputs for 75-ohm connections.
- K. The receiving device shall be powered by 115/230 VAC 160 mA, 18 / 37 Watts, 63 / 125 BTU/hour.

- L. The receiving device shall have a Blue “Power-On” LED.
- M. The receiving device shall per channel status LEDs:
  - Off = no signal detected
  - Green = valid video signal detected
  - Amber = marginal signal detected
  - Red = faulty signal detected
- N. The receiving device shall have the ability to operate with signals in the same wire bundle as telephone, data, low voltage power, or other video signals.
- O. The receiving device shall meet or exceed the following design and performance specifications:
  - a. Have typical common-mode rejection of 60 dB between the frequencies of 15 KHz to 5 MHz.
  - b. Shall have a frequency response from DC to 5 MHz.
  - c. Shall provide transient immunity of 6,000V 1.2uS x 50 uS and 3,000A 8uS x 20 uS, per ANSI / IEEE 587C62.41
  - d. Shall be for indoor use or for use in an environmental enclosure and allow a maximum operating temperature range of 0 to 50 degrees Celsius.
- P. The receiving device shall be capable of utilizing 24-16 AWG (solid or stranded) UTP wire.
- Q. The receiving device shall be capable of utilizing Category 2 or better UTP without compromising interference immunity or transmission distances.
- R. The receiving device shall have a weight of under 5 lbs (2.26 kg).
- S. The receiving device shall have dimensions of 17” wide, 1.7” (1RU) high, 8.125” deep (43 cm x 4.5 cm x 20 cm).
- T. The receiving device shall be packaged with “L” brackets to support the front or rear rail rack mounting, or wall mounting; and rubber feet to support desk mount applications.
- U. The receiving device shall be packaged with eight 2-ft (60 cm) coax jumper cables.
- V. The receiving device shall be UL and CUL listed.
- W. The receiving device shall be CE, WEEE, and RoHS compliant.
- X. The receiving device shall be provided with a limited lifetime warranty.
- Y. The DigitaEQ Active Receiver Distribution Amplifier Hub, 8-Channel (Screw Terminal/RJ45 Input) shall be the NVT:
  - a. NV-872 or
  - b. Approved equal