PROJECT NUMBER _____ PROJECT NAME_____

DATE _____ PROJECT LOCATION _____

TECHNICAL SPECIFICATIONS
SECTION 28 23 00 – VIDEO SURVEILLANCE
SECTION 28 23 23 - VIDEO SURVEILLANCE SYSTEMS INFRASTRUCTURE
TYPE CX254 UTP MODULAR CARD CAGE & POWER SUPPLY

PART 2 – PRODUCTS

2.1 GENERAL

2.1.1 All equipment to be supplied under this specification shall be new and the current model of a standard product of an OEM of record. An OEM of record shall be defined a a company whose main occupation is the manufacture for sale of the equipment supplied and which:

A. Maintains a factory production line for the item submitted.
B. Maintains a stock of replacement parts for the item submitted..
C. Maintains engineering drawings, specifications, and operating manuals for the items submitted.
D. Has published and distributed descriptive literature and equipment specifications on the items of equipment submitted.

2.1.2 Specifications of equipment as set forth herein are salient and minimum requirements, unless otherwise stated and shall not be construed as limiting the overall quality, quantity or performance characteristics of items furnished.

2.1.3 Systems and components shall have been thoroughly tested and proven in actual use.

2.1.4 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

2.2 SPECIFICATIONS

2.2.1 The Unshielded Twisted Pair Crossover and Distribution Card Cage (Card Cage Assembly) shall be a NITEK Model CX254 or approved equivalent and shall provide card slides, plug-in means and a Mother Board arrangement for power, video and RS422 connections to up to five (5) of the NITEK Model CHM22 and /or the CXM22 Video Network Cards and or the POE48 PoE inserter card and/or the FAN64 circulation fan module card in any combination thereof.

2.2.2 The Card Cage Assembly shall be One Rack Unit high (1 RU) and shall provide for horizontal mounting of the Cards specified in paragraph 2.2.1.

2.2.3 The Card Cage Assembly shall be powered by an internal 120 VAC power supply that shall be capable of providing output voltages of 24VAC and 28VAC and an output current of 10 Amp.

2.2.4 The Power Supply shall be capable of providing up to 60 watts of power for each of the five outputs for a total of 300 watts.

2.2.5 Each of the five individual Power Supply outputs shall be protected by an auto-resetting overload device, which shall be rated at 3 Amps maximum.

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PART 2 – PRODUCTS
2.2 SPECIFICATIONS (continued)

2.2.6 The Power Supply shall operate over a primary line voltage range of 105 VAC to 120 VAC, 60 Hz.

2.2.6 The Card Cage Assembly shall provide five (5) RJ45 output connectors at the rear of the unit to facilitate connection of video and RS422 control signlas to a Copper Backbone cabling array.

2.2.7 The Power Supply shall be capable of operating from either 110 - 120 volt or 220 – 240 volt power sources.

2.2.8 The Card Cage Assembly shall provide a means to receive a single RS422 data signal for distribution to up to five (5) Network Cards (equipped for RS422).

2.2.9 The Card Cage Assembly shall be designed to compatible with the TIA/EIA 568B standards for structured cabling systems.

2.2.10 The output Video signals shall be through a series of five (5) RJ45 connectors to a punch down block. RS422 control signal to the Card Cage Assembly shall be via a two wire input.

2.2.11 The Copper Backbone cabling shall be Category 3 or better, 24 gauge or heavier, unshielded twisted pair wire up to a maximum cable length of 3,000 feet (900 meters).

2.2.12 Maximum length of this cable shall be determined by the UTP Video Receiver types to be used at the Head-End.

2.2.13 The Copper Backbone will be the pathway for the transportation of both video and RS422 control signals. Connection of this Copper Backbone cable to the Card Cage Assembly shall be made by means of a punch down block.

2.2.14 The Card Cage Assembly shall be capable of interconnecting baseband type monochrome or color video and/or RS422 data signals without causing interference or interfering with any other base band video, communication, data and/or other low-voltage signals

2.2.15 The Crossover Unit shall be covered by a Limited Two Year Warranty.