TECHNICAL SPECIFICATIONS SECURITY SYSTEM
DIVISION 32 - ELECTRICAL
SECTION 32770 - 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 32-Channel Power Supply StubEQ™ Active Receiver Hub

A. Shall be equipped with one RJ45 connector for connecting power, video and data to and from power-video-data transceiver at each camera, for up to thirty-two cameras.

B. The device shall be capable of receiving thirty-two baseband monochrome or color video signals over unshielded twisted-pair (UTP) Category cable up to a distance of 1,500ft (460m) when used with a passive transceiver, 2000ft (600m) with an active transmitter.

C. The device shall meet or exceed the following design and performance specifications:

   a. Having typical common-mode rejection of 60dB between the frequencies of 15KHz to 10MHz.
   b. Shall have a frequency response from DC to 10 MHz.
   c. Shall provide transient immunity 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.

D. The device shall have fully automatic (no adjustment) 2-band digital distance equalization for each port, with distance specified for NTSC or PAL standards.

E. Shall be compatible with a power-video-data transceiver at each camera and comply with standard telecom/datacom structured cabling pinouts per EIA/TIA 568B. Wiring pinouts shall be:

   Pin 1: + Video
   Pin 2: - Video
   Pin 3: + Data
   Pin 4: - Power
   Pin 5: + Power
   Pin 6: - Data
   Pin 7: + Power
   Pin 8: - Power

F. Shall deliver Pan/Tilt/Zoom telemetry signals from the control room to an RJ45 jack for delivery via UTP wire to the cameras. Pinouts shall be:

Data, channels 1-4	Data, channels 5-8
Pin 1: Data 2 +	Pin 1: Data 6 +
Pin 2: Data 2 -	Pin 2: Data 6 -
Pin 3: Data 3 +	Pin 3: Data 7 +
Pin 4: Data 1 -	Pin 4: Data 5 -
Pin 5: Data 1 +	Pin 5: Data 5 +
Pin 6: Data 3 -	Pin 6: Data 7 -
Pin 7: Data 4 +	Pin 7: Data 8 +
Pin 8: Data 4 -	Pin 8: Data 8 -

Data, channels 9-12	Data, channels 13-16
Pin 1: Data 10 +	Pin 1: Data 14 +
Pin 2: Data 10 -	Pin 2: Data 14 -
Pin 3: Data 11 +	Pin 3: Data 15 +
Pin 4: Data 9 -	Pin 4: Data 13 -
Pin 5: Data 9 +	Pin 5: Data 13 +
Pin 6: Data 11 -	Pin 6: Data 15 -
Pin 7: Data 12 +	Pin 7: Data 16 +
Pin 8: Data 12 -	Pin 8: Data 16 -

Data, channels 17 - 20	Data, channels 21 -24
Pin 1: Data 18 +	Pin 1: Data 22 +
Pin 2: Data 18 -	Pin 2: Data 22 -
Pin 3: Data 19 +	Pin 3: Data 23 +
Pin 4: Data 17 -	Pin 4: Data 21 -
Pin 5: Data 17 +	Pin 5: Data 21 +
Pin 6: Data 19 -	Pin 6: Data 23 -
Pin 7: Data 20 +	Pin 7: Data 24 +
Pin 8: Data 20 -	Pin 8: Data 24 -

Data, channels 25 - 28	Data, channels 29 - 32
Pin 1: Data 26 +	Pin 1: Data 30 +
Pin 2: Data 26 -	Pin 2: Data 30 -
Pin 3: Data 27 +	Pin 3: Data 31 +
Pin 4: Data 25 -	Pin 4: Data 29 -
Pin 5: Data 25 +	Pin 5: Data 29 +
Pin 6: Data 27 -	Pin 6: Data 31 -
Pin 7: Data 28 +	Pin 7: Data 32 +
Pin 8: Data 28 -	Pin 8: Data 32 -

G. Shall supply up to 0.5 Amp per channel, 16 amps aggregate.

H. Shall provide 28VAC camera power, video and pass-through telemetry data connectivity for up to 32 cameras, each via a single RJ45 4-pair UTP cable.

I. Shall have a maximum 28VAC output for each camera connection.

J. Shall be powered by 115/230 VAC 50/60 Hz internal power supply.

K. Shall have a Blue “Power-On” LED.

L. Shall have 32 video input channels with 1 video output per channel.

M. Shall have protection of 5X20mm type T fuse 5 Amp, 250V & thermal shutdown.

N. Shall require a minimum airflow of 4ft^3/min (0.3m^3/min).

O. Shall require a minimum of 2.5in (63,5mm) unrestricted open air space on each side of unit.

P. Shall have a wattage rating of 500 Watts.

Q. Shall operate within a humidity (non-condensing) of 1 to 95%.

R. Shall have 32 individually floating outputs ensuring total ground-loop immunity.

S. Shall have per channel power and video diagnostics.

T. Shall have per-channel automatic-reset fault protection.

U. The device shall have built-in transient protection.

V. Shall have female BNC outputs for 75-ohm connection.

W. Shall be wall, desk or 19in rack mountable.

X. Shall support Cat 5 or better UTP.

Y. Shall have a product weight of 24.1lb / 10,93kg.

Z. Shall have a package weight of 40lb / 18,14kg.

AA. Shall have dimensions 17in wide, 1.7in high, 12in deep (43,2cm wide, 4,5cm high, 30cm deep).

BB. Shall be UL and cUL listed.

CC. Shall be CE compliant.

DD. Shall be RoHs compliant.

EE. Shall be WEEE compliant.

FF. Shall be provided with a limited lifetime warranty.

GG. Shall be the NVT: NV-32PS42-PVD or approved equal.