### KTS-271

1. UTP Active Transceiver
   1. The KTS-271 single-channel active transceiver shall be as manufactured by GE Security or an approved equal.
   2. The KTS-271 shall be compatible with GE Security’s CyberDome products.
   3. The KTS-271 shall include, but not be limited to the following:
      1. The unit shall be an active transceiver able to both transmit and receive color or monochrome video in real time.
      2. The unit shall be able to transmit and receive video up to 3,000 feet over standard unshielded twisted pair (UTP) telephone wire.
      3. The unit shall have interference immunity that allows video signals to coexist in the same wire bundle as telephone, datacom signals, and low-voltage power circuits with no degradation in video quality.
      4. The unit shall send video signals without digitization or compression to avoid signal degradation.
      5. The unit shall provide built-in transient protection.
      6. The unit shall provide built-in surge suppression.
      7. The unit shall be compatible only with GE Security and NVT (Network Video Technologies) products.
      8. The unit shall be compatible with NTSC, PAL, and SECAM video.
   4. The wire specifications for the KTS-271 shall be as follows:
      1. Network wiring: One UTP per port channel
      2. Wire gauge: 24 AWG or thicker
      3. Category type: 2, 3, 4, 5 or better
      4. Impedance: 100 ± 20 ohms
      5. DC loop resistance: 52 ohms per 1,000 feet
      6. Differential capacitance: 19 pF/ft max.
      7. Wire length (camera to monitor): Up to 3,000 feet (with coax)
      8. Coax cable impedance: 75 ohms
   5. The electrical specifications for the KTS-271 shall be as follows:
      1. Input voltage: 24 VAC/DC (transformer not included; 75 mA max.)
      2. Frequency response: DC to 5 MHz
      3. Common-mode/differential-mode rejection: 15 KHz to 5 MHz; 60 dB typical
      4. Impedence: Coax, female BNC-75 ohms; UTP, terminal block-100 ohms
   6. The environmental specifications for the KTS-271 shall be as follows:
      1. Operating temperature: 32 to 122°F (0 to 50°C)
      2. Humidity: 0 to 95%, noncondensing
      3. Transient immunity: 6,000 V 1.2µS x 50 µS
         1. Per ANSI/IEEE 587 C62.41 B3 3,000 A 8µS x 20 µS when ground screw is bonded to earth ground
   7. The physical specifications for the KTS-271 shall be as follows:
      1. Weight shall be 4 ounces or 100 g.
      2. Construction material shall be black ABS.
      3. Mounting shall be via two 0.175 inch (4.4 mm) diameter holes, 2.5 inches (63.5 mm) apart.
      4. Dimensions shall be 3 inches x 1.54 inches x 1.1 inches (76 mm x 39 mm x 28 mm), excluding connectors.
   8. The KTS-271 shall conform to these internationally recognized compliance standards:
      1. FCC
      2. CE (pending)
      3. UL

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