
TECHNICAL SPECIFICATIONS

CSI Division 13740

Security Systems

Closed Circuit Video Surveillance Systems

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Monochrome/Color, Standard/High Resolution Vandal Resistant Recessed Mount Indoor Closed Circuit Video Surveillance Domes supporting cameras with fixed/variable lens ranges and 50/60Hz standards.

1.02 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Manufacturer's descriptive literature for equipment specified, including components, options, specifications, ordering information, and accessories.
- C. Manufacturer's installation instructions for each product.
- D. Shop Drawings if required.

1.03 QUALITY ASSURANCE

- A. Regulatory Requirements (if applicable).

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Store products of this section in manufacturer's unopened packaging until installation.
- B. Maintain dry storage area with temperature between -20C to +50 C (-4F to +122F) for products of this section until installation.

1.05 WARRANTY

- A. All Aigis Mechtronics LLC products are warranted against defects in materials or workmanship for a period of 39 months from date of shipping.

1.06 REFERENCES

- A. List compliance regulations (e.g. UL, FCC CLASS A) for each product if applicable.

PART 2 - PRODUCTS

2.0 GENERAL

2.01 MANUFACTURER

- A. Aigis Mechtronics, LLC
1124 Louise Road
Winston-Salem, NC 27107-5450
Tel. (877) 523-6500 or (336) 785-7740
Fax. (336) 785-7744
www.aigismech.com

2.02 General Requirements

Monochrome/Color, Standard/High Resolution Vandal Resistant Recessed Mount Indoor Closed Circuit Video Surveillance Domes.

- A. The product specified shall be a 480 TVL High Resolution, High Sensitivity NTSC camera using a 1/4-inch image format; interline transfer CCD imager prepackaged with a 101mm (3.9-inch) polycarbonate dome on a metal box with plenum-rated dust cover. The camera shall come complete with a 2.8-10mm, vari-focal f/1.2-360 1/4-inch format, DC Auto Iris lens. It shall provide a high-speed electronic shutter (1/60 to 1/100,000), selectable on/off control backlight compensation, automatic sensing white balance through the lens, and shall accept AC or DC power. The camera shall have line-lock and phase adjustment capability.
- B. The product specified shall only require 1.2 lux of light to produce a 50 IRE signal level with an f/1.2 lens.
- C. The camera specified shall provide immunity to shock and vibration and be virtually vandal-proof by being able to withstand the equivalent of 120 lbs. of force.
- D. The housing shall be able to be mounted to a two gang electrical box or directly to a wall or ceiling using four #10 screws. Video and power lines may be run to the unit using conduit. The unit may be wired from the side or the back. The cover shall be held in place with two tamper resistant captive screws.
- E. The camera shall be designed so that an optional unshielded twisted pair (UTP) passive transmitter is available for video transmission of up to 750 ft when a passive receiver

is used, and 3000 ft when an active receiver is used. The transmitter is compatible with NVT brand receivers.

2.03 ELECTRICAL SPECIFICATIONS:

- A. Voltage range: 11 to 13 VDC or 21 to 27 VAC, 60Hz.
- B. Power: 3 watts.
- C. Composite Video Output: 1.0 Vp-p, 75 ohms.
- D. Sync: Internal/Line-lock with phase adjust (0-330 degrees).
- E. Sync format: NTSC.
- F. Horizontal Resolution: 480 TVL.
- G. Imager: 1/4-inch, interline transfer CCD.
- H. Signal to noise ratio: more than 50 dB.

2.04 MECHANICAL SPECIFICATIONS:

- A. Weight: 0.7 Kg (1.6 lbs.).
- B. Overall dimensions: 139.7mm (5.5 in) dia. x 129.1mm (5.08 in) height.
- C. Connectors: Video Out: Female BNC, Optional twisted pair interface. Power: Two stripped leads with push wire connectors.
- D. Pan/tilt adjustment: Manual pan: 360 degrees Tilt: 160 degrees.
- E. White Trim Ring
- F. Standard two gang deep electrical box mounting.

2.05 ENVIRONMENTAL SPECIFICATIONS:

- A. Operating Temperature: -10C to +50C (+14F to +122F).
- B. Humidity: 0% to 80% relative, non-condensing.

2.06 Product Regulatory Compliance

- A. Electromagnetic Compatibility: Complies with FCC Part 15, and ICES-003 regulations.
- B. Product Safety: Complies with UL, and cUL Standards.

PART 3 - EXECUTION

3.01 Installation

- A. Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.
- B. Installation should be performed in accordance with manufacturer's installation manual.

The product specified shall be the Model MLAR2CH210 Vandal Resistant Recessed Mount Security Dome Camera with a White Trim Ring, manufactured by Aigis Mechtronics.