

Architectural and Engineering Specifications for Aigis Mechtronics,
LLC
MLA2CH36 Indoor/Outdoor Color High Resolution Vandal Resistant
VariDome

TECHNICAL SPECIFICATIONS

CSI Division 13740

Security Systems
Closed Circuit Video Surveillance Systems

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Indoor/Outdoor Color, High Resolution Vandal Resistant Closed Circuit Video Surveillance.

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 -40C to +50 C (-40F 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.

1.02 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

Indoor/Outdoor Color, High Resolution Vandal Resistant VariDome Camera

- A. The product specified shall be a 480 TVL high resolution, high sensitivity NTSC camera using a ¼-inch format CCD color imager prepackaged in an impact-resistant cast aluminum housing with a 101mm (3.9-inch) polycarbonate dome. The camera shall come complete with a 3 - 6mm, f1.2 to 360 vari-focal DC auto-iris lens, and provide a high-speed electronic shutter (1/60 to 1/100,000), selectable automatic/manual white balance, and intelligent backlight compensation. The camera 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 a lens set at F/1.2
- 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 camera housing shall be weather-sealed to allow for use outdoors. The housing may be mounted to a single 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 four tamper resistant captive screws.
- E. The manufacturer shall offer optional pendant wall mount and pipe mount kits.
- F. 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: ¼-inch, interline transfer CCD.
- H. Signal to noise ratio: More than 48 dB.

2.04 MECHANICAL SPECIFICATIONS:

- A. Weight: 1.5 Kg (3.3 lbs.).
- B. Overall dimensions: 153.5mm (6.04 in) dia. x 114.1mm (4.49 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. Standard White enclosure or optional Stainless Steel look - brushed aluminum finish.
- F. Standard single gang electrical box mounting.

2.05 ENVIRONMENTAL SPECIFICATIONS:

- A. Temperature:
 - 1.) Operating: -20C to +50C (-40F to +122F).
- B. Humidity: 0% to 90% relative, non-condensing.
- C. Protection rating: IP 65.

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.

2.07 Accessories

- A. The manufacturer shall offer a Pipe mounting kit (Includes ceiling flange, gasket and mounting cap with screws).
- B. The manufacturer shall offer a Wall mounting kit (Includes pendant wall mount, screws and mounting cap with screws).

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 MLA2CH36 High Impact Security Dome Camera with a white finish, manufactured by Aigis Mechtronics.