

Architectural and Engineering Specifications for Aigis Mechtronics,
LLC
IND62RCH55

Indoor Color High Resolution Fixed
Camera Recessed Dome Package

TECHNICAL SPECIFICATIONS
CSI Division 13740

Security Systems
Closed Circuit Video Surveillance Systems

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Indoor, Monochrome/Color Standard/High Resolution Fixed Camera Recessed Dome Package for 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 -20C to +50 C (-4F to +122F) for products of this section until installation.

1.05 WARRANTY

- A. This Aigis Mechtronics LLC product is 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

Indoor, Monochrome/Color Standard/High Resolution Fixed Camera Recessed Dome Package.

- A. The product specified shall be a Recessed Mount Aluminum Dome housing that comes pre-packaged with an integrated fixed camera/lens module. The camera shall be a 480 TVL High resolution, high sensitivity NTSC Color camera using a 1/4-inch format CCD imager and come complete with a 5-50mm, f/1.4-185 vari-focal DC Auto Iris 1/3-inch format lens. The camera/lens module shall have Automatic sensing white balance through the lens, selectable on/off backlight compensation control, and provide a high-speed electronic shutter (1/50 to 1/100,000). 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 1.6 lux of light to produce a 50 IRE signal level with an f/1.2 lens.
- C. The backbox shall be constructed of durable aluminum with conduit access and accommodations for safety cables making it usable in plenum ceiling applications.
- D. The in-ceiling dome shall be easily installed in sheetrock or standard drop ceilings using a quick-latch mechanism. The unit may be wired using push wire connectors.
- E. The dome camera package specified shall include a masked acrylic dome with a tinted, acrylic viewing window with a 0.5 f/stop loss that conceals the camera/lens assembly and provides a minimal reduction to the light.
- F. The dome camera package 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: 12 to 36 VDC or 12 to 24 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: 48 dB.

2.04 MECHANICAL SPECIFICATIONS:

- A. Weight: 1.7 Kg (3.8 lbs.).
- B. Dimensions: In-ceiling backbox:
 - 137 mm (5.38 in.) height above ceiling.
 - 165.1 mm (6.5 in.) diameter.
- C. Tinted Dome Bubble: 160 mm (6.3 in.) diameter
- D. Construction: Aluminum in-ceiling backbox; tinted acrylic dome with 0.5 f/stop loss.
- E. Connectors: Video Out: Female BNC, Optional twisted pair interface. Power: Screw Terminal
- F. Pan/tilt adjustment: Manual pan: 360 degrees Tilt: 180 degrees.
- G. Finish: Charcoal trim ring.

2.05 ENVIRONMENTAL SPECIFICATIONS:

- A. Operating Temperature: -10C to +50C (+14F to +122F).
- B. Humidity: 0% to 90% 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 CE and UL Standards.
- C. Enclosure Protection: Plenum rated.

2.07 Accessories

- A. The manufacturer shall offer a mounting kit with support rails for suspended ceiling applications.

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 IND62RCH55 Indoor Fixed Camera Recessed Dome Package with a charcoal finish, a 480 TVL High resolution, high sensitivity NTSC Color camera complete with a 5-50mm, f/1.4-185 vari-focal DC Auto Iris lens manufactured by Aigis Mechtronics.