Architectural and Engineering Specifications for Aigis Mechtronics, LLC

IND62RCH55 Indoor Color High Resolution Fixed Camera Recessed Dome Package

TECHNICAL SPECIFICATIONS Security Systems
CSI Division 13740 Closed Circuit Video Surveillance Systems

PART 1 – GENERAL

1.01 SECTION INCLUDES

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 -20°C to +50°C (-4°F to +122°F) 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
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
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.