**NOTES: UNLESS OTHERWISE SPECIFIED**

1. CLEARANCE REQUIRED FOR FREE MOTION OF SYSTEM.
2. O-RING USED FOR SEALING SYSTEM TO MOUNTING STRUCTURE. STANDALONE UNIT MEETS IPX6 SEALING SPECIFICATION. MINIMUM MOUNTING SURFACE FLATNESS OF 1.5mm (0.060") OVER SYSTEM DIAMETER REQUIRED FOR CORRECT USE; WHEN MOUNTING TO IRREGULAR SURFACES, USE OF BEDDING COMPOUND RECOMMENDED.
3. USE WITH FLIR MOUNTING HARDWARE KITS.
4. USE LOCTITE 262 WITH ALL METAL TO METAL THREADED CONNECTIONS THAT DO NOT HAVE LOCKING PATCHES.

**WARNING**

DO NOT BOTTOM FASTENERS IN BASE. BOLT LENGTH NOT TO EXCEED 6mm INTO BASE. ELECTRONICS WILL BE DAMAGED BY BASE PENETRATION - VOIDING WARRANTY. BOLT TORQUE NOT TO EXCEED 9.5N-m (7 lb-ft).

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IMPORTANT NOTE:

PAPER SIZE: 22x34 in
TEMPLATE SHOULD PRINT 1:1

DUE TO VARIATION IN SOFTWARE AND PRINTERS, PLEASE VERIFY SCALE BELOW BEFORE MODIFYING MOUNTING SURFACE.

ENSURE PRINTER MARGINS ARE SET TO ZERO AND SCALE IS 100%

---

BASE CUP MOUNTING TEMPLATE

DECK PORT CABLE CLEARANCE
2.467 (0.396) MIN
Φ 130.0 (5.12) MAX

RIGHT ANGLED CABLES NOT RECOMMENDED FOR MOUNTING SURFACES >10mm THICK.
IF MOUNTING SURFACE IS >10MM THICK, USE STRAIGHT CABLES OR MOUNT TO TOP DOWN RISER

---

FLIR SYSTEMS, INC.
70 Castilian Drive
Goleta, CA 93117
IMPORTANT NOTE:

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ENSURE PRINTER MARGINS ARE SET TO ZERO AND SCALE IS 100%.

DEFINITIONS:

50.0 MM  
2 IN

6X 0.32 RISER CLEARANCE HOLES
RECOMMENDED:
M8 SOCKET HEAD CAP SCREWS, OR
5/16" - 18 SOCKET HEAD CAP SCREWS, OR
5/16" - 18 HEX HEAD SHEET METAL SCREWS
TYPE AND LENGTH DEPENDANT ON MOUNTING SURFACE
316 STAINLESS STEEL
APPLY THREAD LOCKER (LOCTITE 262 OR EQUIVALENT)

[12.75]  
(0.323)  
TOP DOWN RISER OD

[11.75]  
(0.298)  
TOP DOWN RISER BOLT CIRCLE

[4.79]  
(0.1216)  
RISER CABLE CLEARANCE HOLE
RECOMMENDED DECK PORT:
Ø 1.0 [0.04] MIN
Ø 1.30 [0.05] MAX

[7.09]  
(0.83)  
MARLIN BASE CUP HOLE CIRCLE

RECOMMENDED:
M8 SOCKET HEAD CAP SCREWS, OR
5/16" - 18 SOCKET HEAD CAP SCREWS, OR
5/16" - 18 HEX HEAD SHEET METAL SCREWS
TYPE AND LENGTH DEPENDANT ON MOUNTING SURFACE
316 STAINLESS STEEL
APPLY THREAD LOCKER (LOCTITE 262 OR EQUIVALENT)

IMPORTANT NOTE:

PAPER SIZE: 22x34in
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RECOMMENDED:
M8 SOCKET HEAD CAP SCREWS, OR
5/16" - 18 SOCKET HEAD CAP SCREWS, OR
5/16" - 18 HEX HEAD SHEET METAL SCREWS
TYPE AND LENGTH DEPENDANT ON MOUNTING SURFACE
316 STAINLESS STEEL
APPLY THREAD LOCKER (LOCTITE 262 OR EQUIVALENT)
WITH CABLE INSTALLED, TURN NUT 1/4 TURN BEYOND HAND TIGHT.

GLAND SEAL DESIGNED FOR USE WITH DOUBLE SHIELDED CAT 5 ETHERNET CABLE. USE OF SINGLE SHIELDED CABLE MAY REQUIRE THE USE OF ADDITIONAL SEALANT SUCH AS SILICONE OR RTV TO ENSURE SEALING OF ENCLOSURE.

INSERT NETWORK CABLE RJ45 THROUGH GLAND NUT AND SEAL BEFORE INSTALLING.

APPLY ADHESIVE SIDE OF GASKET TO JCU BODY.

MOUNTING PANEL THICKNESS RANGE 1.6-45 [0.036-1.750], WHEN MOUNTING TO PANEL LESS THAN 6.3 [0.25] REVERSE PADDLES.

DURING INITIAL TIGHTENING, ENSURE MOUNTING TABS ON SCREWS SWING FREE OF REAR OUSING, WITH TABS RUN UP AGAINST REAR OF INSTRUMENT PANEL. TIGHTEN 1/4 - 1/2 TURN BEYOND HAND TIGHT.

TOP LEVEL ASSEMBLY

METRIC

500-0398-10 MARITIME JCU

FLIR Systems, Inc.
70 Castilian Drive
Goleta, CA 93117

PROPRIETARY - FLIR SYSTEMS, INC.
CORNERS SHALL BE SHARP.

DUE TO VARIATION IN SOFTWARE AND PRINTERS, PLEASE VERIFY SCALE BELOW BEFORE MODIFYING MOUNTING SURFACE.

ENSURE PRINTER MARGINS ARE SET TO ZERO AND SCALE IS 100%

IMPORANT NOTE:

PAPER SIZE: 11x17

TEMPLATE SHOULD PRINT 1:1

DUE TO VARIATION IN SOFTWARE AND PRINTERS, PLEASE VERIFY SCALE BELOW BEFORE MODIFYING MOUNTING SURFACE.

ENSURE PRINTER MARGINS ARE SET TO ZERO AND SCALE IS 100%
**POWER CABLE**
Living twisted stranded wire
Red wire: +12-24 VDC (4.4-2.2 AMP NOM)
Blue wire: DC RETURN
Drain wire: Earth ground

**BUTT SPICE OR INSTALLER SUPPLIED CONNECTOR**

**MANUFACTURER SPECIFIC ENVIRONMENTAL EXPOSURE RATINGS APPLY**

**NETWORK CABLE FOR PoE DEVICES (IEEE802.3af)**
8 CONDUCTOR T568B, ETHERNET, DOUBLE SHIELDED
FLIR PN 308-0163-25 OR EQUIVALENT

**NOTE:** TO MAINTAIN IEC 60945 EMI COMPLIANCE, USE OF DOUBLE SHIELDED CABLE REQUIRED.

**INSTALLER SUPPLIED POWER CABLE**
Gauge of wire to be appropriate for supply voltage and length of cable run to ensure adequate current carrying capability.

**INSTALLER SUPPLIED POWER CABLE**

**HD/SDI CABLE**
RG6 BNC

**HD/SDI CABLE**
100FT RUN LENGTH MAX WITHOUT BUFFER

**DIAGRAM:**
INTERCONNECT DIAGRAM
MULTIPLE JCU - POE SWITCH

**NOTE:** CABLE CONFIGURATIONS SHOWN ARE FOR SHORT CABLES INCLUDED WITH EACH UNIT. LONG ACCESSORY CABLES ARE AVAILABLE WHERE NO IN-LINE COUPLING IS NECESSARY. FOR MORE INFORMATION, SEE SHEET 9.
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**POWER CABLE (RIGHT ANGLE SHOWN)**

**ANALOG VIDEO AND SERIAL CABLE (RIGHT ANGLE SHOWN)**

**ETHERNET CABLE (RIGHT ANGLE SHOWN)**

**HD/SDI CABLE**

---

**F-TYPE CONNECTOR**

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**ANALOG VIDEO AND SERIAL CABLE CONNECTOR PINOUT**

**ETHERNET CABLE CONNECTOR PINOUT**

**ETHRNET CABLE CONNECTOR PINOUT TABLE**

<table>
<thead>
<tr>
<th>P1 WIRE COLOR</th>
<th>NAME</th>
<th>P2 WIRE COLOR</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ORANGE/WHITE</td>
<td>TXRX A+</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2 ORANGE</td>
<td>TXRX A-</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3 BLUE</td>
<td>TXRX C+</td>
<td>DC+</td>
<td>4</td>
</tr>
<tr>
<td>4 BLUE/WHITE</td>
<td>TXRX C-</td>
<td>DC-</td>
<td>5</td>
</tr>
<tr>
<td>5 GREEN/WHITE</td>
<td>TXRX B+</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6 GREEN</td>
<td>TXRX B-</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7 BROWN/WHITE</td>
<td>TXRX D+</td>
<td>DC+</td>
<td>7</td>
</tr>
<tr>
<td>8 BROWN</td>
<td>TXRX D-</td>
<td>DC-</td>
<td>8</td>
</tr>
<tr>
<td>9 NA</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 DRAIN</td>
<td>DRAIN SHELL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**ETHERNET CABLE PINOUT TABLE**

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**POWER CABLE PINOUT TABLE**

---

**A/V AND SERIAL CABLE CONNECTOR PINOUT**

---

**A/V AND SERIAL CABLE CONNECTOR PINOUT TABLE**

---

**IMPORTANT: CHASSIS GROUND WIRE TO BE TIED SECURELY TO THE NEGATIVE BATTERY TERMINAL**

---

**CABLE OPTIONS**

---

**RJ45 CONNECTOR (P2) PINOUT IN ACCORDANCE WITH 802.3af STANDARD B**

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**FLIR SYSTEMS, INC.**

70 Castilian Drive

Goleta, CA 93117

**10/21/2015**

**SCALE 1:5 PRINTED 10/21/2015 SHEET 8 OF 10**

**METRIC**

---

**TOP LEVEL ASSEMBLY**

---

**FLIR SYSTEMS, INC.**

70 Castilian Drive

Goleta, CA 93117

**10/21/2015**

**SCALE 1:5 PRINTED 10/21/2015 SHEET 8 OF 10**

**METRIC**
HIDDEN CABLE MOUNTING SCHEME:

MOUNTING DIRECTLY THROUGH CUSTOMER DECKING, OR OTHER SURFACES STRUCTURE OPPOSITE M400 TO BE A SEALED ENCLOSURE AND A DRY SPACE CAMERA SHOWN IN BALL UP CONFIGURATION

SOCKET HEAD CAP SCREW WITH LOCKING PATCH

M4 x 1.0
LENGTH: 6mm + THICKNESS OF CUSTOMER DECKING
316 STAINLESS STEEL
4 PLACES
APPLY CORROSION INHIBITOR (USS TEF-GEL)
TORQUE TO 9.5 N-m (7 lb-ft)

WARNING

CUSTOMER DECKING, OR
OTHER STRUCTURE.

MAX DECK THICKNESS FOR
RIGHT ANGLED CABLES WITHOUT
TOP DOWN RISER: 10mm

CABLE PORT
FOR DIMENSIONS SEE
SHEETS 2 AND 3

HIDDEN CABLE MOUNTING SCHEME:

MOUNTING DIRECTLY THROUGH CUSTOMER STRUCTURE.
ACTUAL STRUCTURES MAY VARY.
STRUCTURE OPPOSITE M400 TO BE A SEALED ENCLOSURE
AND A DRY SPACE CAMERA SHOWN IN BALL DOWN CONFIGURATION

M400 WEIGHT: <12.25 kg (27lb)

AS568-436 EPDM O-RING
[5.85in ID x .275in DIA]
[49mm ID x 7mm DIA]

AS568-444 EPDM O-RING
[7.72in ID x .275in DIA]
[96mm ID x 7mm DIA]

CABLE PORT
FOR DIMENSIONS SEE
SHEETS 2 AND 3

HOLE MOUNTING
6.4 mm DIAMETER
6 PLACES

SOCKET HEAD CAP SCREW WITH LOCKING PATCH
M6 x 1.0
LENGTH: 6mm + THICKNESS OF CUSTOMER DECKING
316 STAINLESS STEEL
4 PLACES
APPLY CORROSION INHIBITOR (USS TEF-GEL)
TORQUE TO 9.5 N-m (7 lb-ft)

WARNING

WASHER, OPTIONAL
M6
316 STAINLESS STEEL

APPLY CORROSION INHIBITOR (USS TEF-GEL)
TORQUE TO 9.5 N-m (7 lb-ft)

316 STAINLESS STEEL
6 PLACES

MAX DECK THICKNESS FOR
RIGHT ANGLED CABLES WITHOUT
TOP DOWN RISER: 10mm

CABLE PORT
FOR DIMENSIONS SEE
SHEETS 2 AND 3

WASHER, OPTIONAL
M6
316 STAINLESS STEEL

CABLE PORT
FOR DIMENSIONS SEE
SHEETS 2 AND 3

CABLE PORT
FOR DIMENSIONS SEE
SHEETS 2 AND 3

M400 WEIGHT: <12.25 kg (27lb)
**EXPOSED CABLE MOUNTING SCHEME:**

CUSTOMER SUPPLIED MOUNTING BRACKET/SURFACE BALL UP CONFIGURATION SHOWN

**FASTENERS BETWEEN TOP DOWN RISER AND MOUNTING SURFACE TO BE SUPPLIED BY THE INSTALLER, RECOMMENDED FASTENERS DETAILED ON PAGE 3.**

**WARNING**

5.

**AS568-436 EPDM O-RING**

5.85mm ID x 7.7mm DIA

59mm ID x 7mm DIA

**AS568-444 EPDM O-RING**

7.72mm ID x 7.7mm DIA

96mm ID x 7mm DIA

**WASHER**

M6

316 STAINLESS STEEL

**TOP LEVEL ASSEMBLY**

**M400**

**CABLE PORT FOR DIMENSIONS SEE SHEETS 2 AND 3**

**MOUNTING HOLES AS DETAILED ON PAGE 3**

**CUSTOMER DECKING, OR OTHER STRUCTURE.**

MAX DECK THICKNESS FOR RIGHT ANGLED CABLES WITHOUT TOP DOWN RISER: 10mm

**EXPOSED CABLE MOUNTING SCHEME:**

CUSTOMER SUPPLIED MOUNTING BRACKET/SURFACE BALL DOWN CONFIGURATION SHOWN

**WARNING**

5.

**AS568-436 EPDM O-RING**

5.85mm ID x 7.7mm DIA

59mm ID x 7mm DIA

**AS568-444 EPDM O-RING**

7.72mm ID x 7.7mm DIA

96mm ID x 7mm DIA

**WASHER**

M6

316 STAINLESS STEEL

**TOP LEVEL ASSEMBLY**

**M400**

**CABLE PORT FOR DIMENSIONS SEE SHEETS 2 AND 3**

**MOUNTING HOLES AS DETAILED ON PAGE 3**

**CUSTOMER DECKING, OR OTHER STRUCTURE.**

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