



**PENNSYLVANIA STATE POLICE
DEPARTMENT HEADQUARTERS
1800 ELMERTON AVENUE
HARRISBURG, PA 17110**

**IFB 6100063462
SPECIFICATIONS
PSP BCI FIRST RESPONDER CAMERA SYSTEM**

I-1. Statement of the Project.

The Pennsylvania State Police (PSP), Bureau of Criminal Investigation (BCI) is issuing this Invitation for Bid (IFB) to procure a First Responder Camera System for the 31' PSP Safeboat vessel. These requirements and quantities are set forth in these specifications as for all related products and services. This is a no substitute solicitation.

I-2. Specification and Quantity.

A. Equipment needed:

- **M400XR Stabilized Thermal/Visible Camera with JCU (NTSC, 30Hz)**
Quantity Needed: 1
Item#: 432-0012-04-00
Includes:
 - Camera unit
 - FLIR Joystick Control Unit (JCU2) kit
 - 5-Port PoE+ Ethernet Switch
 - Power cable, right angle, 12 AWG, 3 meters
 - Ethernet cable, right angle to RJ45, 1 meter
 - RJ45 waterproof Ethernet coupler
 - AV and serial cable, right angle, 1 meter
 - HD-SDI cable, 1 meter
 - HD-SDI Isolation Transformer
 - Camera base O-ring and stainless steel mounting hardware kit
- **AXIOM2 Pro 16 S Hybrid Touch 16" Multifunction Display with CHIRP Conical Sonar for CPT-S**
Quantity Needed: 1
Item#: E70657
- **RNS-8 Ray Net Network Switch 4X POE**
Quantity Needed: 1
Item#: A80732

- **RayNet (F) to RJ45 (M) cable – 3m**
Quantity Needed: 1
Item#: A80151
- **AIS5000 Class A Transponder Bundle**
Quantity Needed: 1
Item#: E70529
- **AVMATRIX H.264/H.265 SDI Streaming**
Quantity Needed: 1
Item#: SE1117
- **Axis Communications P7304 4-Channel Video Encoder**
Quantity Needed: 1
Item#: 01680-001
- **BRNKL Black – 4TB Storage**
Quantity Needed: 1
Item#: BRNKL_BLACK
- **HD VHF 6dB gain @ 162 MHz AIS System (Dedicated AIS)**
Quantity Needed: 1
Item#: 9334

B. Installation:

- Removal of all existing thermal camera hardware including wiring.
 - The State Police 31' Safeboat vessel currently utilizes a Gyrocam Dual Sensor camera system which is mounted on the roof of the vessel. A color display monitor is mounted on the dash of the vessel in front of the passenger seat to view video imagery captured by the camera. The camera system is equipped with a digital video recorder (DVR) and external hard drive to capture and retain footage.
- Removal of all existing standalone monitor including hardware.
- Removal of L3 AIS, including wiring.
- Fabrication and installation of patch panel to cover removed AIS display.
- Installation of FLIR M400XR thermal camera system, including PoE switch & Raymarine RNS8 network switch.
- Integration of FLIR M400XR thermal camera system onboard vessel with existing navigation system.
- Installation and integration of Raymarine AIS5000 encrypted AIS.
- Installation and setup of Barnacle Black System with existing sensors and cameras, includes peripheral encoders.

- Commissioning and testing of all installed equipment to ensure proper functionality. Must be signed off on by PSP.

C. Training:

- 1 day on the water and classroom training with end users on operation and maintenance of FLIR & Raymarine electronics.
- Training documents must be provided electronically or hard copy upon request.

D. Technician Qualifications:

- FCC GROL License
- Raymarine Premier Dealer
- FLIR Certified Dealer
- NMEA Advanced MEI Certificate
- NMEA Advanced NMEA2000 Certificate
- NMEA CMET (Certified Marine Electronics Technician)

I-3. Warranty.

- 3-year parts and onboard labor warranty.
 - After the equipment is received, the serial numbers of all equipment and the boat's Hull Identification Number must be entered into FLIR's database to cover the warranty.
 - Should the installer not be able to repair the items for whatever reason, PSP would have the repair conducted at any of the 221 FLIR certified dealers within the United States.

I-4. Manufacturer Authorization.

- If the offeror submitting a response to this IFB is not the original equipment manufacturer (OEM) of the equipment being provided, the Offeror must submit a Manufacturers Authorization Letter which clearly states the Offeror is authorized to provide and install the OEM's equipment. The Manufacturer Authorization Letter must reference "IFB 6100063462 – PSP BCI First Responder Camera System".

I-5. Delivery/Service Location.

Parts to be delivered to:

Pennsylvania State Police - Butler
c/o Corporal Jerry Zundel
200 Barracks Rd.
Butler, PA 16001

Installation to take place at:
USCG Erie
1 Coast Guard Rd.
Erie, PA 16505