

# iTrac II

- Vessel Monitoring System (VMS)
- Department of Fisheries and Oceans Canada certified
- Bi-directional Iridium® communications
- Remotely programmable reporting intervals



## Locate commercial and private vessels at sea.

The iTrac II system consists of a bi-directional Iridium® satellite communicator which transmits vessel position reports at specified intervals. The iTrac II system may be remotely programmed to change the reporting interval. The iTrac II system consists of a satellite communicator and a marine grade antenna. An internal battery for backup is provided to maintain all parameters in the case of power failure. The vessel provides normal operating power. The communicator is housed in an IP68 rated ruggedized enclosure.



End-user and fisheries management web interface.



# iTrac II

## KEY FEATURES

- Department of Fisheries and Oceans Canada certified for monitoring vessels
- An automatically generated message is transmitted 24 times a day consisting of vessel position, heading, speed and time
- Two-way communications via satellite telemetry
- Message frequency can be updated from shore, to generate and transmit a position at various time periods
- LED's on the unit provides indication of power on/off, transmit/receive and status
- Units are GPS-equipped (10 m (33 feet) CEP, 45 sec cold start)
- Data is sent via e-mail, or direct IP to end users or via web services to fisheries management
- Geofencing capability provided
- Shock and Vibration tested to ISTA 1A specifications
- Surge and reverse polarity protected
- Distress/panic button included
- Manufactured under ISO 9001 compliance

## OPTIONAL FEATURES

- USB communications port for future expandability, including PC communications and external sensors
- At sea e-mail capability
- Emergency vessel position trigger
- E-log compatible

## TECHNICAL SPECIFICATIONS

### PHYSICAL

Length	20.63 cm (8.125 inches)
Width	16.25 cm (6.400 inches)
Height	6.350 cm (2.500 inches)
Weight	0.884 kg (1.95 lbs)

### POWER

Transmit frequency	1616 MHz to 1626.50 MHz
Transmit power	1.2 Watts
Receive frequency	1616 MHz to 1626.50 MHz
Sensitivity (minimum)	-118 dbm
Battery requirements	12 volt Lead Acid Battery
Power requirements	12 to 32 VDC (external power)
Power use	Transmit 2.5 A max. Monitoring 100 mA
Sleep	<20uA (7V - 28V)
GPS acquisition	280mW (24mA @ 12V) Typical time to fix: <60 seconds

### ENVIRONMENTAL

Operating temperature	-40°C to +70°C (-40°F to +158°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Waterproof	IP-68 tested to 1.5m submergence