

LIME™

EM LIME™ is a cost-effective solution that allows for real-time monitoring of fisheries-related activities.

Product Overview

LIME™ (Lite Integrated Monitoring Equipment) is a low-cost data collection platform that allows fleet managers, fisheries managers and enforcement managers to monitor and access critical fisheries-related activity in real-time. LIME™ was designed to fit on a variety of vessels. Its minimal footprint makes it ideal for smaller boats without the space for a full-scale EM (Electronic Monitoring) system, or in fisheries where the frequency or intensity of fishing is cost-prohibitive to full-scale EM (e.g. few fishing trips per vessel, low catch rates etc.).

Integrated into this product is the award-winning boat security and monitoring product, BRNKL, developed by Barnacle Systems. This integration allows a vessel operator app-based access to real-time positional, safety and security information from their vessel no matter where they are in the world.



Product Features

- GPS
- Integrated Sensor Inputs
- Charging Compatible
- Global Cellular Coverage
- Solar Compatible
- Vessel Security
- Still Imagery Capable
- RFID Compatible
- Real-time Data Transfer

General

Physical Dimensions	127 mm x 90 mm x 50 mm
Status Indicator	LED indicator light
Weight	239g
Power Consumption	<20uA (standby) <70 mA (active)
Antennas	GPS (internal) GPS (external port) Mobile network (internal)
Mounting	Mounting plate
Temperature	-20°C to +75°C
Battery	1400mAh
Water Rating	N/A

Mobile Network Connection

Geographic Coverage	Network coverage areas worldwide
3G	HSPA+, UMTS
2G	Edge, GSM, GPRS
Service	Data only
Service Plan	Annual or monthly subscription
Service Provider	Barnacle Systems Inc.

Camera

Internal/External	External
Resolution	800 x 600
Connection	Wired, proprietary cable
Night Vision	Infrared image sensor
Water Rating	IP65
Cable Length	2 m (other lengths available)



Sensors

GPS Receiver	GPS, Galileo, Glonass
Accelerometer	±2g; 16384 LSB/g
Gyroscope	±125 deg/sec; 262.4 LSB/deg/sec
Temperature	-20 to +75°C; ±3°C
Humidity	300 to 1100hPa; ±1.5 Pa/K
Barometric Pressure	±0.25%; ±1.5 Pa/K

Connections

Analog Inputs	4 wired (5-32V DC)
Digital Inputs power	2 wired (9-32V DC)
Digital Inputs ground	4 wired
Digital Outputs ground	2 wired
Ground Connections	2
External Camera Port	1 wired (proprietary connection)
GPS Antenna	1 internal; 1 wired external port (SMA)

BRNKL Interface

Mobile Devices	iOS app or browser; Android app or browser
Other Devices	Browser
Browser Compatibility	Chrome, Safari, Firefox, Edge
Connection	Internet connection