The McMurdo brand OmniCom VMS beacon and PRISMA software offers fishing vessels full regulatory compliance via our tried and tested marine technology. NOAA certified; with twenty years on the water experience; supported by our acclaimed a 24/7 live support centre.

Your fleet is always connected with OmniCom's dual Satellite/Cellular communications technology that automatically switches to the least cost option based on location, with low power consumption, secure communications and utilising Windows applications for a complete, simple to use, end to end VMS solution that tracks your vessels movement for crew safety, fisheries compliance and enforcement.

**Fishing Fleet Monitoring**
Monitor and track vessel movement for both preventative and required regulatory compliance and for enforcement purposes

**Safety & Emergency Response**
Assist search and rescue teams by connecting to National Emergency Response Services to locate targets in emergency situations

**Protection of Economic Zone**
Safeguard Marine Protected Areas and better manage economic zones by identifying and validating foreign vessels in coastal waters

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Overview
Designed for use with Vessel Monitoring System (VMS) programs, McMurdo OmniCom VMS tracks and monitors vessels using the Iridium satellite and GSM network. The dome positioned on the exterior of the vessel houses the Iridium transceiver, the GNSS receiver, the cellular modem and electronic interfaces. The junction box located in the wheelhouse serves as an interface between the dome and the power supply and offers I/O ports for connecting ancillary devices.

Benefits
End-to-End Vessel Monitoring
OmniCom VMS provides fleets with end to end visibility from ship to shore. Configurable messaging includes position, course, and speed.

Ruggedised for Marine Environments
OmniCom VMS is designed for commercial fishermen operating in harsh environments. IP-67 beacon rating and integrated, sealed, and protected components ensure continuous operations during inclement weather.

Geofencing for Compliance
OmniCom VMS transmits notifications identifying vessels that approach, enter, leave, or remain within configurable geographical boundaries. This enables fleets and government agencies to enforce compliance for restricted areas.

Operational Efficiency
Reports are sent in real-time to improve fleet management. Upload latest firmware over-the-air anywhere in the world without taking vessels out of service. Digital I/O, USB, and NMEA 2000 ready ports collect mechanical readings which can be monitored onboard.

Lower Costs
Least Cost Routing helps better manage expenses by automatically switching from satellite to cellular coverage when available. System seamlessly changes to satellite when out of cell range so connectivity is never lost. Power consumption is low with 10-36V DC connectivity.

Integrated Safety & Security Features
SOS button is easily accessible to alert authorities in emergency situations. Optional AIS connectivity assists in locating vessels and crew such as in Man Overboard events. System can be integrated to ship’s SSAS for added security.

Specifications
Satellite Transceiver
Iridium Type Approved. Transmitter frequency 1616 to 1626.5 MHz, HF Power: 32 dBm max

Cellular Modem
GSM/GPRS/Edge (850/900/1800/1900 MHz) · UMTS/HSPA (850/900/1700/1900/2100 MHz)

GNSS Receiver
Receiver for GPS & GLONASS, Galileo satellites. Precision of < 10 m

IEC 60945
IEC 60945 Approved to guarantee resistance to high temperatures, humidity, salinity, and vibration, and long-term functionality of terminal components

Bluetooth
Bluetooth interface for wireless connectivity

Temperature
Operating Temperature Range: -25°C to +55°C · Storage Temperature Range: -25°C to +70°C

Ingress Protection
Water & weather resistant. Beacon IP-67, Junction Box IP-65

Power Supply
Power supply range nominal 10V-36V · Current drain: <2A at 12V, <1A at 24V

Back-Up Battery Life
Extended life up to 72 hours via rechargeable 7.0 Ah battery

Memory Back Up
Standard memory back up of 90 days

Conformity
EC declaration of conformity

Dimensions & Weight
Beacon Size
198 X 192 X 120 mm (L x W x H)
Beacon Weight
2.15 kg (including 7.0 Ah battery)
Junction Box Size
169 x 126 x 48 mm
Junction Box Weight
0.35 kg
Dome Cable
15 m (Dome to Junction Box)
Power Supply Cable
5 m (two wires cable)