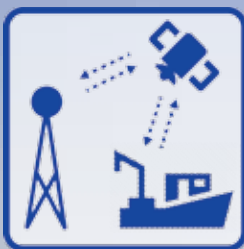


IRIDIUM IONEER



Reliable position reporting available
24/7 without local limitation

IONEER



Real-Time-Tracking and Alerting via VHF
and bi-directional SAT communication

The new IONEER locating beacon enables unlimited traceability available 24/7 with a bi-directional SAT communication module inside.

The IONEER system allows persistent locating and monitoring of vessels or other moving objects in all areas via VHF technologies. The palm-sized position transmitter is reliable working with the AIS Class B CSTDMA (Carrier Sense Time Division Multiple Access) functionality and IRIDIUM® sat network.

Function

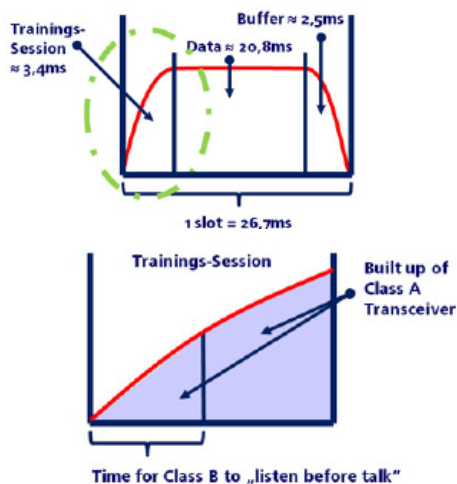
After activation the IONEER transmits position reports in a pre-set time interval to a coastal coordination-center to show current location of each fleet vessel.

The default position reporting is done on special customized VHF frequencies or on regular AIS frequencies by using the AIS CSTDMA technology. SAT communication via IRIDIUM® satellite network is provided in addition.

Application

- Bi-directional SAT-Communication**
 As soon as a pre-programmed distance from the coastline is overrun, the IONEER unit switches automatically into SAT-Communication via IRIDIUM satellites. AIS based Communication can be done bi-directional: Ship-to-SAT-to-Shore and vice versa.
- Additional „push-to-alert“ button**
 By triggering the alert button, additional to the regular position report an official AIS emergency message will be send out on both standard AIS frequencies to reach every AIS receiver within transmission range of the vmsTRACK-PRO-CS.
- „Who & Where“ for coastal security and fleet management**
 Real-Time-Knowledge of „who and where“ is very important in administration of coastal fishing fleets as well as for coastal border security issues. By transmission of the unit ID and additional special names the „Friend or Foe“ identifying is easily possible.
- GEO-Fencing**
 Weatherdock's technology allows the creation of restricted or limited entry zones. These special areas can be programmed into the unit. This "Geo-Fence-Functionality" has many applications, one of them is to help in the protection of our planet but it is also very useful for Coastal Fisheries Management.

CSTDMA - „LISTEN before TALK“



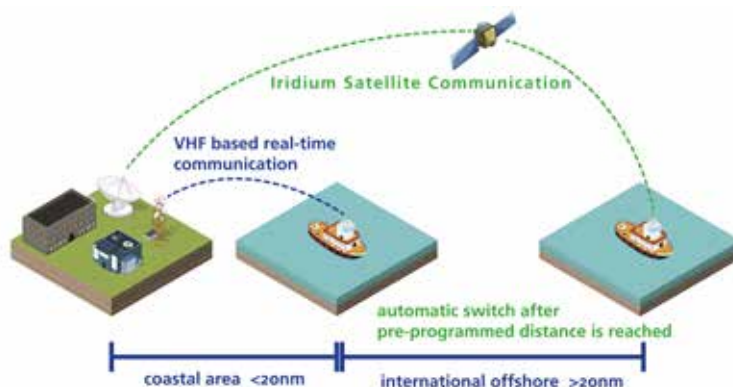
- Optional Bluetooth functionality**
 Using the Bluetooth®LE connectivity of your smartphone, it is possible to remote control the vmsTRACK-PRO push buttons and to see the LED status display. Android® and IOS® apps are available free of charge to use this functionality. Via Bluetooth the usage of the fisher catch report app is the perfect solution for easy catch reporting regarding IUU requirements.
- Intelligent tamper-proof solution**
 If the unit will be stolen or tampered, an intelligent high tech solution will trigger a flashing LED to inform the vessels captain. A special information message is send to control center immediately in addition.
- Route Data Storage**
 The vmsTRACK-PRO-CS is able to store waypoints of thousands of nautical miles for better transparency of areas of activity according the IUU guidelines.
- Individualization**
 The vmsTRACK-PRO unit can be individualized by means of pre-programming additional data e.g. ship name, type of vessel and area of activity into the unit for transmission.

Different power supply solutions

- Charging station**
 Intelligent recharging of batteries with a special charging station (easyCHARGER A121). Battery runtime is depending on the pre-set transmission intervall.
- Vessel generator or battery**
 Intelligent recharging with a fixed solution by means of connection to 9-32VDC vessel engine.
- Solar panel**
 Intelligent recharging with persistent external power supply. Suitable also for small artisanal fishing vessels without electrical power supply.

Technical Data

- Transmission power: >= 2Watt**
- Specifiable VHF frequency range from 156.025 to 162.025MHz - 25KHz channel spacing (please ask your local authority for customized VHF frequencies to use for)**
- Operating temperature range: -10°C to +55°C**
- Storage temperature range: -30°C to +60°C**
- Dimensions (LxWxH): 130 x 70 x 30 mm**
- Weight: 250 g**
- AIS Class B CSTDMA technology**



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Stand: 08/2018 - subject to alterations

EXCELLENCE IN RADIO TECHNOLOGIES
 Safety • Navigation • Tracking

