



## Vessel & Object Real-Time-Tracking (CSTDMA) and Alerting via VHF



Coastal border security & maritime domain awareness

# The vmsTRACK-PRO-CS takes the AIS technology into coastal border security and into maritime domain awareness. Vessel and object monitoring and alerting is getting more effective and affordable.

The vmsTRACK-PRO-CS system allows persistent locating and monitoring of vessels or other moving objects in a local area via VHF technologies. The palm-sized position transmitter is reliable working with the AIS Class B CSTDMA (Carrier Sense Time Division Multiple Access) functionality.

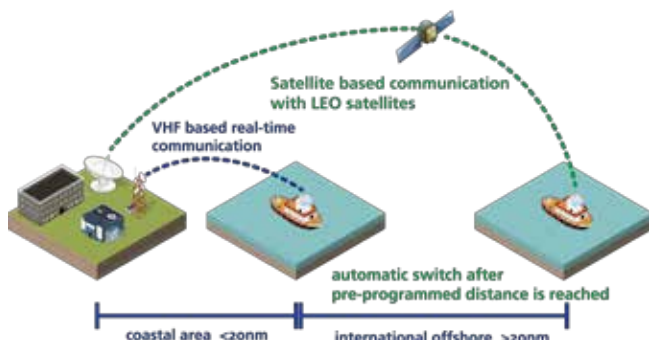
## Function

After activation the vmsTRACK-PRO-CS transmits position reports in a pre-set time interval to a coastal receiver to show current location of each fleet vessel.

By default position reporting could be done on special customized VHF frequencies, but tracking on regular AIS frequencies is also possible by using AIS CSTDMA technology (selectable by customer!).

## Application

- 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.
- Automatic switch into SAT-Communication**  
 As an optional feature as soon as a pre-programmed distance from the coastline is overrun, the vmsTRACK-PRO-CS unit is able to switch automatically into SAT-Communication via satellite to the command control center, for unlimited traceability.
- 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.
- 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 as well as a special information message will be additional sent to the receiver at the coast.

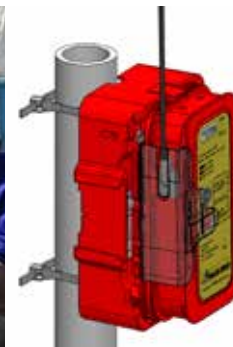
- Route Data Storage**  
 The vmsTRACK-PRO-CS is able to store waypoints of thousands of nautical miles for better transparency of areas of activity according the IUU guidelines.
- Individualization**  
 The vmsTRACK-PRO-CS unit can be individualized by means of pre-programming additional data e.g. ship name, type of vessel and area of activity into the unit for transmission.
- Optional Bluetooth functionality**  
 Using the Bluetooth®LE connectivity of your smartphone, it is possible to program or remote control the vmsTRACK-PRO-CS from the mobile device.. Android® and IOS® apps are available free of charge
- Catch reporting via App (optional)**  
 An existing app is available and is the perfect solution for a full transparency of fishermen's activities regarding the IUU requirements.

## 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 interval.
- 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**
- Part #A193**



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**EXCELLENCE IN RADIO TECHNOLOGIES**  
 Safety • Navigation • Tracking

