



## OCEAN-SCAN SATELLITE SYSTEM

SRT Marine Systems PLC has announced its new OCEAN-SCAN global vessel detection, tracking and identification satellite system will go live in 2019.

OCEAN-SCAN will deploy a unique integration of advanced technologies, including a new generation of AIS, that will provide significantly enhanced vessel detection tracking and identification from space. OCEAN-SCAN will enable long range (Global) vessel tracking beyond the range of terrestrial ground based systems, such as SRT's long range surveillance CS100 AIS Coast Stations, which typically have a reliable real time coastal range of up to 75 nautical miles.

OCEAN-SCAN will deliver three distinct and unique advantages derived from its technologies and system architecture. Firstly, the use of scanning technology will enable the detection of vessels without an identification transceiver, along with their size and

approximate speed and course. Secondly, high performance AIS technology will see a dramatic improvement in the reception of transmissions from vessels equipped with AIS devices – those vessel transceivers with SRT's SAT-Trak™ technology enabled will see a further enhancement in this regard. Thirdly, OCEAN-SCAN will deliver data directly to customer in country as the satellites are live overhead, ensuring minimal latency and data security and integrity.

OCEAN-SCAN will be the only satellite system capable of vessel detection, tracking and identification.

## BEAUTIFUL INSIDE

SRT products are beautiful inside and out – but why is this important? Quality engineering ensures performance and long term reliability and this is most important in regards to the electronics inside; the selection of the best components and materials, high quality design and manufacturing all ensure optimal performance and long term product reliability.



## HIGH POWERED AIS CLASS B

There are now two types of AIS Class B transceiver. Standard as defined in IEC62287-1 and high powered as defined in IEC62287-2. Standard Class B transmit at 2W power, once every 30 seconds and use a radio access scheme called CSTDMA. High powered Class B transmit at 5W power, once every few seconds and use a radio access scheme called SOTDMA, which takes priority over CSTDMA in busy areas. It is expected that high powered AIS Class B will appeal to off shore sailors and professional/commercial users. SRT offers both high powered and standard AIS Class B module and OEM product solutions.



## VMS-Connect

SRT is continuously enhancing its proven SRT VMS System. The system provides a turn-key fisheries and aquatic environment tracking, monitoring and management system – any vessel size and type, from the smallest artisanal boat to the largest oceanic vessels.

VMS-Connect is unique functionality embedded within the SRT VMS System. It enables low cost massive and continuous electronic collection of information from fishermen using their mobile phone wirelessly connected to an SRT VMS transceiver. Fishermen and authorised system users can electronically record and automatically upload their catches, update vessel ownership details, report crew, update licensing, and much more. VMS-Connect is highly configurable and customisable to meet specific customer data capture requirements.



## HF-AIS

HF-AIS is our term that describes unique core technology that resides in all SRT AIS transceivers. This combination of high performance processors and firmware, delivers proven superior, error free, high capacity AIS transmission processing. The user benefits from HF-AIS through seeing all available AIS targets at maximum range.



### SRT SYSTEM SOLUTIONS

- SRT provides sophisticated turn-key maritime monitoring, management and surveillance systems each customised and scaled to individual requirements.
- VTS System - sophisticated port monitoring and management system with unique and powerful functionality.
- VMS System - total fisheries management and monitoring system for vessels of all types and sizes with no tracking range limitation.
- MDM System - state of the art fully integrated maritime surveillance and command and control system for national maritime security, management and safety.



NAVY



COAST GUARD



POLICE



FISHERIES



ENVIRONMENT



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