

# YOU CAN MAKE THE DIFFERENCE BETWEEN SAVING OR LOSING A LIFE



**SMRT V100**

**VHF DSC & AIS**

The world's most advanced alerting & tracking MOB device

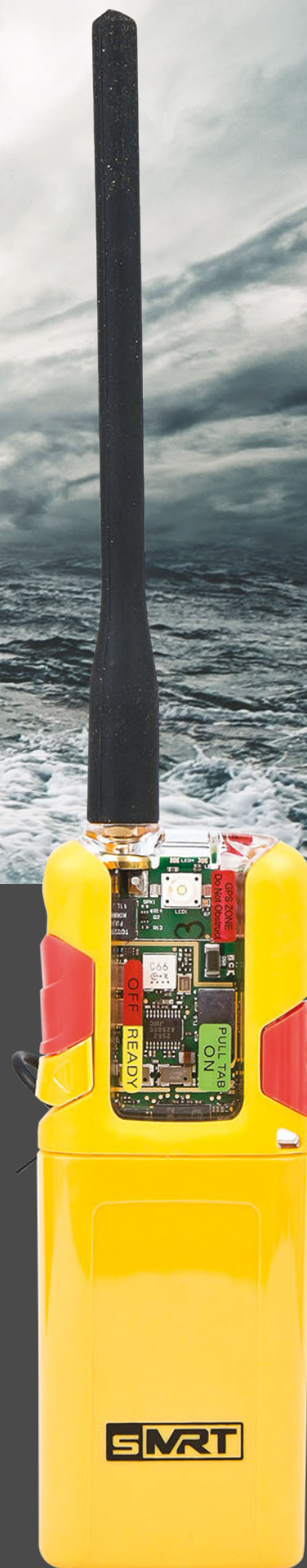
**The sMRT V100 works fast to save lives.**

As soon as your crewmember hits the water, the auto activating sMRT V100 sends an alert to every VHF DSC radio nearby.

Their GPS position is updated every minute via AIS so you know exactly where they are.

**DESIGNED TO MEET NEW  
INTERNATIONAL SAFETY STANDARDS**

We take the **SEARCH** out of search and rescue



## WHY CHOOSE A sMRT V100?

- + Monitor your crew 24/7
- + Activates automatically on inflation/immersion in water or manually
- + Indicates GPS position in less than 45s\*
- + Updates GPS position via AIS every minute
- + Tracks multiple targets simultaneously
- + Individual ITU-R 585 compliant self ID
- + Designed to be integrated into a SOLAS approved sMRT PFD
- + Enables every vessel nearby to become a SAR asset
- + Works with existing VHF DSC and AIS equipment
- + Up to 75 mile range (from fixed wing aircraft)\*
- + Annual recertification ensures optimum performance

## SPECIFICATION

### GENERAL

Standards	Designed to RTCM STANDARD 11901.1 EN 303 098 V1.2.1 & draft EN 303 132
Battery Type	9.0V 1500mAh Lithium Manganese Dioxide (LiMnO2)
Battery Life	Minimum of 12 hours at -20°C
Battery Shelf Life at +20°C	5 years
Operating Temperature	-20° to +55°C (-4° to +131°F) as per IEC 60945
Storage Temperature	-30° to +70°C (-22° to +158°F) as per IEC 60945
Dimensions	51mm (2in) W x 137mm (5.4in) H x 21mm (0.83in) D (26mm/1in with water sensor)
Weight	168g (5.9oz)
Durability	Tested as per IEC Standard 60945
Strobe Light	20 candela, 170 degree dispersion, flash rate once-per-sec
Environmental Resistance	IP67
Mounting Options	Designed for attachment to a SOLAS approved life jacket
Self ID	ITU-R M.585 Compliant factory programmed freeform Maritime Identity with 972 prefix
Compass Safe Distance	0.5m (1.5ft)
Alerting Radius	Up to 75 mile range (from fixed wing aircraft)

### AIS/VHF TRANSMITTER PACKAGES

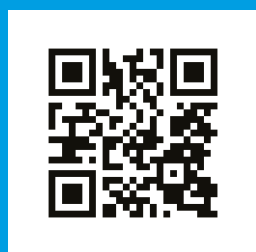
Antenna type	Vertically polarized
AIS Tx Power Output	Nominal 1W EIRP
VHF Transmission Frequencies	VHF DSC Channel 70: 156.525 MHz; AIS Channel 1: 161.975MHz; AIS Channel 2: 162.025MHz
VHF DSC Tx Power Output	Nominal radiated power 500mW
Signalling Type	AIS and VHF-DSC

### GPS RECEIVER

GPS Receiver Type	56 channel
TTFF (Time to First Fix)	45 seconds (typical) with nominal GPS signal levels -130dBm
Subsequent GPS fixes	Minimum of 6 per minute

### VHF DSC AND AIS ALERTS

AIS	Within 30 seconds of GPS position acquisition
Initial Open Loop DSC Alert	10 seconds after activation
Subsequent Open Loop DSC Alerts	Every 5 minutes for the first 30 minutes, every 10 minutes thereafter until VHF-DSC acknowledgement or the battery expires.
First DSC GPS data alert sent	Immediately after GPS position acquired



**FOR MORE DETAILS:**  
**Email:** [info@mrtsos.com](mailto:info@mrtsos.com)  
**Tel:** +44 (0)1482 679 300  
**Visit:** [www.mrtsos.com](http://www.mrtsos.com)

