

CREWSAFE V200

Specifications

General	
Battery Type	3 x 3 Volt LiMnO2 (Non HAZMAT) CR123
Operating Time	Nominal 48 hours emergency operation at -10°C (14°F) and longer in warmer conditions
Battery Service Life at +20°C	5 years
Operating Temperature	-20° to +55°C (-4° to +131°F)
Stowage Temperature	-30° to +70°C (-22° to +158°F)
Dimensions	137 x 77 x 44mm
Weight	455g
Case	Impact resistant and depth rated to 300 metres for 1 hour
Durability	Tested as per IEC 60945
Environmental Resistance	IP68
Mounting Options	Overhead harness and adjustable lanyard
Compass Safe Distance	0.3m (for minimal deflection)
Accelerometer	Ultra-low power, 3-axis accelerometer with high resolution (13-bit) measurement at up to ±16 g
Power Saving Mode	Suspends 121.5 MHz transmissions and strobe until required
GPS Receiver	
Channels	50 channel parallel
TTFF (Time to First Fix)	29 seconds (all satellites at -130dBm)
Antenna	Integrated solid state quadrafilar helix
GPS Sensitivity	Cold start acquisition at -147dBm; Tracking and navigation to -160dBm
Horizontal Position Accuracy	2.5m (under good signal conditions)
GPS Antenna Directivity	> -5dBi
Transmission Power Output	
VHF DSC	1 watt (100mW during testing)
VHF Voice	100 milliwatt
AIS	1 watt
121.5 MHz	2.5 milliwatt
VHF Transmitter Package	
Carrier Frequency	Tuning from 156MHz to 162.025MHz
Carrier Frequency Error	± 1.5 kHz
Maximum Power Output	1 watt ± 1.5dB
Emergency Signalling	
Alerting Radius	Up to 15NM surface to surface, up to 100NM surface to air (satellite/fixed wing) ¹
VHF DSC	
Initial Alert	Two minutes after full activation
Second Alert (GPS Positioning Data)	Once GPS lock is acquired
Subsequent Alerts	Every 5 minutes for 30 minutes; every 10 minutes thereafter until the beacon is turned off or the batteries expire
VHF Voice	
Initial Alert	Two minutes after full activation
Subsequent Alerts	Every 5 minutes for 30 minutes; every 10 minutes thereafter until the beacon is turned off or the batteries expire
AIS	
Timing	One burst of 8 transmissions every minute
121.5 MHz	
Activation	Two minutes after full activation
Strobe	
Activation	5 minutes after full activation
Indications	1 candela over the upper hemisphere, 60 flashes per minute
Compliances ²	
NAVSEA	SS800-AG-MAN-010/P-9290
VHF DSC	ITU-R M. 493-11 and ITU-R M. 451-9
AIS-SART	IEC 61097-14
Radio-telephone voice transmitter	IEC 60945
Strobe	USCG SOLAS Life Raft Light Requirement

¹ Expected range, derived from sea trial results. Actual alerting range dependent on sea state, atmospheric conditions and height/altitude of receiving antenna. ² This product is approved under the NTIA for the United States. Not for commercial sale, for defence only.

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