Entel

HT Series

Marine

Business Critical Communications

- Commercial Grade
- MED Approved
- ATEX II2 G Ex ib IIC
  ATEX II2 G Ex ib IIA
- Ex ib IIA T4

Tough | IP68 RATING
Submersible
Dependable

www.entel.co.uk

ENTEL HT SERIES Marine

Commercial Marine Portable Radios

Rugged, designed for gloved hand use and with exceptionally loud audio, Entel's HT Commercial Marine portable radios are specifically designed to withstand the everyday rigours of the Maritime workplace.

With over 20-Years' experience exceeding the demands of the Maritime Workplace, Entel offers the most complete and established range of Commercial Marine portable radios available. Versions include: VHF, UHF, GMDSS, ATIS & Intrinsically Safe (ATEX IIA, IIC & IECEx).

Why Entel HT Commercial Marine portables?

- Superior voice quality and volume
- IP68 (2 metres depth for 4 hours) submersible
- MIL-STD 810/C/D/E&F standard robust construction
- High capacity (2000 mAh) Li-Ion batteries as standard
- Established & proven portables based on over 20-Years' experience

Superior Audio

Using the latest compander noise reduction technology, Entel's Commercial Marine portables deliver loud & crisp audio no matter what environment you are in.

Commercial Grade Construction

Exceeding MIL-STD 810C/D/E/F rating, the HT Series 2.0 is designed to withstand shock, vibration, dust and moisture, ensuring a tough enduring performance and many years of trouble free use, even in the most hostile environments.

Intelligent Li-Ion Battery

Entel's Lithium-Ion Batteries provide the following key advantages:

Extended Talk Time – The 2000mAh capacity of Entel's Lithium-Ion batteries is up-to double that of other makes, therefore ensuring maximum talk-time.

Li-Ion Chemistry – Entel's Li-Ion batteries are not prone to the dreaded memory effect that Ni-Cad and Ni-MH battery packs suffer from. This ensures that you always have a good charge every time you take the battery from its charger.

2 Metres, 4 Hours Submersible

Conforming to IP68 standard, the HT Series 2.0 offers the highest submersibility rating of any manufacturer. This unique Series protects against corrosion, withstanding total immersion in water to a depth of 2 metres for 4 hours to protect against the likely hazards encountered in any field of operation.

Intrinsically Safe

ATEX Approved IIC - The HT900 range of ATEX certified portables meet IIC T4.

ATEX Approved IIA - For those users not restricted to the IIC 1 watt regulatory classification.

IECEx Approval - The HT500 range of intrinsically safe certified portables are suitable for those users who do not need to comply with the European ATEX standard.

GMDSS MED

Entel's HT649 GMDSS portable is MED certified and carries the essential Wheel Mark logo. Designed for those requiring a full featured and outstandingly tough GMDSS portable, the HT649 is one of the most advanced MED certified GMDSS portables available.

The HT649 is available in two packages:

- Pack 1 includes HT649 radio & Primary (emergency) battery.
- Pack 2 as Pack 1 plus Secondary (rechargeable) battery and charger.

Designed in the United Kingdom

Model Selection

		REGION	ENTRY	LCD UHF	LCD VHF	LCD VHF ATIS	LCD GMDSS
NOT INTRINSICALLY SAFE	VHF Marine INT/USA/CAN	EU	HT642	—	HT644	HT644 ATIS	HT649
	Marine UHF	EU	HT782M	HT783M	—	—	—
	Marine UHF	NON EU	HT782E	HT783E	—	—	—
ATEX IIC INTRINSICALLY SAFE	VHF Marine INT/USA/CAN	EU	HT942	—	HT944	HT944 ATIS	—
	Marine UHF	EU	HT982	HT983	—	—	—
ATEX IIA INTRINSICALLY SAFE	VHF Marine INT/USA/CAN	EU	HT842	—	HT844	HT844 ATIS	—
	Marine UHF	EU	HT882	HT883	—	—	—
IECEx INTRINSICALLY SAFE	VHF Marine INT/USA/CAN	NON EU	HT542	—	HT544	—	—
	Marine UHF	NON EU	HT582	HT583	—	—	—
GMDSS APPROVED	VHF Marine	EU	—	—	—	—	HT649
IP68 2 METRES FOR 4 HOURS SUBMERSIBLE			✓	✓	✓	✓	✓
MIL-STD 810 C/D/E/F			✓	✓	✓	✓	✓
HIGH-CAPACITY LI-ION BATTERY			✓	✓	✓	✓	✓
FLASH UPGRADABLE (TO ADD NEW FEATURES)			✓	✓	✓*	✓	✓
CHANNEL CAPACITY			16	255	INT/USA/CAN	INT/USA/CAN	INT/USA/CAN
PRIVATE CHANNELS			✓	✓	✓	✓	✓
LOW BATTERY WARNING			✓	✓	✓	✓	✓
CHANNEL NAMING			—	✓	—	✓	—
VOX (HANDS FREE OPERATION)			✓	✓	✓	✓	✓

*HT644 not flash upgradable

Technical Specification

General Specification	
Frequency range VHF	156 to 163.275MHz (INT, USA. CAN)
Frequency range UHF	400 to 470MHz
Frequency range UHF UP Band	450 to 520MHz
Channel Spacing	VHF – 25KHz UHF – 25KHz / 12.5KHz
Operating Voltage	7.4V
Battery	Li-Ion 2000mAh (1800mAh ATEX & IECEx)
Weight (with battery)	277g
Dimensions*	130mm (h) x 59.5mm (w) x 37mm (d)
Frequency Stability	2.5ppm
Operating Temperature	-20 to +55°C
Dust and Liquid Intrusion	IP68 sumbersible 2 metres for 4 hours
Drop, Packing, Vibration & Shock	MIL-STD 810 C/D/E/F

* Dimensions are based upon a radio with an attached battery, excluding knobs, antenna and protrusions.

For a full & detailed specification, please visit our website

Transmitter	
Power Output HT6 Series	5W / 1W
Power Output HT7 Series UHF	2W / 1W - non EU 4W / 1W
Power Output HT9 Series	1W
Power Output HT5, HT8 Series VHF	4W / 1W
Power Output HT5, HT8 Series UHF	2W / 1W

Receiver	
Sensitivity	Better than -118dBm 12dB Sinad
Rated Audio Output	1W
Intermodulation	-42dBm
Adjacent Channel Selectivity	60 / 70 (12.5 / 25KHz)
Spurious Response Rejection	-37dBm
Spurious Radiations	2.0nW/20nW <1GHz/>1GHz

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Accessories

Supplied package includes:

2000mAh Li-Ion battery pack, charger, spring loaded belt clip, high efficiency antenna & quick start user guide (ATEX & IECEx models are supplied with an 1800mAh 7.4v Li-Ion Battery)

HT649 GMDSS can be supplied in different package combinations, please consult your dealer.

CSBHT ■
Six-way charger

CMP750 ■
CMP950 ▲
Heavy duty speaker mic submersible

EA12/750 ■
EA12/950 ▲
Earpiece microphone

EA15/750 ■
EA15/950 ▲
Covert earpiece / microphone

CXR16/750 ■
CXR16/950 ▲
Throat mic. Bone conductive

CXR5/750 ■
CXR5/950 ▲
Skull mic. Bone conductive

CXE19/750 ■
Bone conductive both transmit & receive

CHP750HS ■
CHP950HS ▲
Hard hat eardefender, submersible PTT

Submersible products are represented with a water droplet.

All specifications are subject to change without notice. For the complete range of accessories please visit our website.

■ Not intrinsically safe.

▲ Intrinsically safe.

Contact

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