

## Technical Specification

General Specification		Transmitter	
Frequency range VHF Low-Band	66 to 88MHz	Power Output VHF (HI/LOW)	5W / 1W
Frequency range VHF High-Band	136 to 174MHz	Power Output UHF (HI/LOW)	4W / 1W
Frequency range UHF	400 to 470MHz	Power Output ATEX IIC	1W
Frequency range UHF UP Band	450 to 520MHz	Power Output ATEX IIA (HI/LOW)	4W / 1W
Channel Spacing	VHF – 25KHz / 12.5KHz UHF – 25KHz / 12.5KHz	Power Output IECEX (HI/LOW)	4W / 1W
Operating Voltage	7.4V	Modulation Type	8K0G3E / 16K0G3E (12.5 / 25KHz)
Battery	Li-Ion 2000mAh (1800mAh ATEX & IECEX)	Receiver	
Weight (with battery)	277g	Sensitivity	Better than -118dBm 12dB Sinad
Dimensions*	130mm (h) x 59.5mm (w) x 37mm(d)	Rated Audio Output	1W
Frequency Stability	2.5ppm	Intermodulation	-42dBm
Operating Temperature	-20 to+ 55°C	Adjacent Channel Selectivity	60 / 70 (12.5 / 25KHz)
Dust and Liquid Intrusion	IP68 submersible 2 metres for 4 hours	Spurious Response Rejection	-37dBm
Drop, Packing, Vibration & Shock	MIL-STD 810C/D/E/F	Spurious Radiations	2.0nW/20nW <1GHz/>1GHz

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

For a full & detailed specification, please visit our website

## Accessories

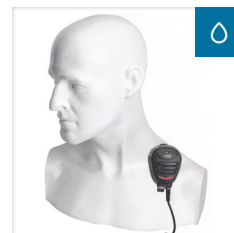
Supplied package includes:

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

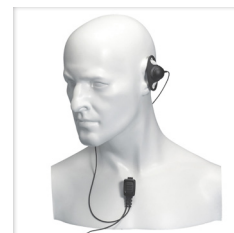
HT649 GMDSS can be supplied in different package combinations, please consult your dealer.



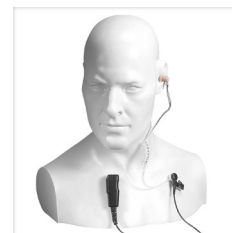
**CSBHT** ■  
Six-way charger



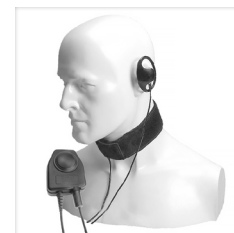
**CMP750** ■  
**CMP950** ▲  
Heavy duty speaker mic submersible



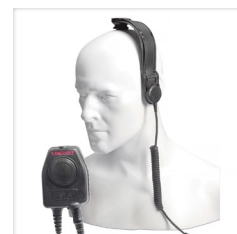
**EA12/750** ■  
**EA12/950** ▲  
Earpiece microphone



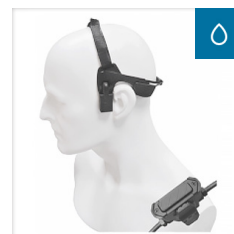
**EA15/750** ■  
**EA15/950** ▲  
Covert earpiece / microphone



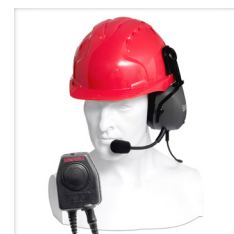
**CXR16/750** ■  
**CXR16/950** ▲  
Throat mic. Bone conductive



**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.

▲ ATEX

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# Entel

# HT Series Land

## Business Critical Communications



Commercial Grade Construction



ATEX II2 G Ex ib IIC T4  
ATEX II2 G Ex ib IIA T4



Ex ib IIA T4

# Tough | IP68 RATING

# Submersible

# Dependable



## Contact

For more information about our products please contact us:

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[www.entel.co.uk](http://www.entel.co.uk)

# ENTEL HT SERIES Land

## Commercial Grade Portable Radios

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

With over 20-Years' experience exceeding the demands of our customers, Entel offers the most complete and established range of commercial grade portable radios available. From entry to advance including MPT1327 and Selcall. We also have an extensive range of Intrinsically Safe models (ATEX IIA, IIC & IECEX).

## Why Entel HT portables?

- Superior voice quality and high audio output
- IP68 (2 metres 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 HT portables deliver loud & crisp audio no matter what environment you are in.

### 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 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.

### 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.

Designed in the United Kingdom

### Intrinsically Safe

**ATEX Approved IIC** - The HT900 range of ATEX certified portables meet IIC T4 - the most stringent ATEX ratings as per EU directive 94/9/EC.

**ATEX Approved IIA** - For those users not restricted to the IIC 1 watt regulatory classification, the HT800 range of ATEX certified portables meet IIA T4 with a full 4 watts of transmitter power.

**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.

### Simple or Sophisticated

Entel's HT portables are offered in three levels of sophistication:

**Entry** – The Entry range of HT portables offer simple Push-to-Talk functionality.

**Selcall** - Selcall adds individual and group calls plus emergency & remote services.

**MPT1327** – Trunked (MPT1327) radios offer the most flexibility and are designed for larger systems.

### Warranty & Support

Entel's products offer exceptional reliability, however should you ever need to call on Entel's warranty we provide a comprehensive service:

- Service is provided by Entel's own global Service Centres as well as local Entel Authorised Dealers
- Entel's Service Centres target a one working day turnaround on all warranty repairs
- For total peace of mind, cost effective, extended warranties (up to 5-Years) are also available on Entel's radios



## Model Selection

MODEL VARIANTS			HTxx2	HTxx3	HTxx5	HTxx6
'ENTRY'		NO SUFFIX	✓	✓	–	–
'SELCALL'		'S' SUFFIX (ON HTxx2 ONLY)	✓	–	✓	✓
'MPT1327'		'T' SUFFIX	✓	–	✓	✓
NOT I.S.		(HT7xx)	✓	✓	✓	✓
ATEX IIC T4		(HT9xx)	✓	✓	✓	✓
ATEX IIA T4		(HT8xx)	✓	✓	✓	✓
IECEX		(HT5xx)	✓	✓	✓	✓
VHF	66-88MHZ	(HTx1x)	✓	✓	✓	✓
VHF	136-174MHZ	(HTx2x)	✓	✓	✓	✓
BAND-3	174-208MHZ	(HTx3x)	✓	–	✓	✓
UHF	400-470MHZ	(HTx8x)	✓	✓	✓	✓
UHF	PMR446	(HT446E/HT446L)	✓	✓	–	–
UHF	450-520MHZ	(HTx8xU)	✓	✓	✓	✓