

# technical specifications



| General           |   |
|-------------------|---|
| Frequency range   | 156.000 to 163.275 MHz  |
| Channels          | All currently allocated International, USA and Canadian channels. |
| Private channels  | 36 (dealer programmable)  |
| Operating voltage | 7.4 VDC   |
| Temperature range | -20°C to +50°C  |
| Current drain:    |   |
| Standby           | 60mA  |
| Receive           | 200mA   |
| Transmit          | 1.5A (high) 0.75A (low)   |
| Duty Cycle        | 15 hours (5%-5%-90%)  |
| Dimensions        | 130mm(h) x 59mm(w) x 33mm(d)                                      |
| Weight            | 296g (with battery and aerial)                                    |

| Transmit              |                               |
|-----------------------|-------------------------------|
| RF power output       | 5 Watt (high) 1 Watt (low)    |
| Frequency stability   | $\pm 0.0005\%$ (-20 to +50°C) |
| Maximum deviation     | 5KHz                          |
| Spurious emissions    | 65dB                          |
| Signal to noise ratio | >43dB                         |
| Channel spacing       | 25KHz                         |
| Mode                  | 16K0F3E (FM)                  |

| Supplied Accessories |  |
|----------------------|--|
| CNB640E              | 7.4v, 1700mAh Li-Ion battery           |
| CCA640               | Charger pod for 12v and 230v operation |
| CWC640               | 230v mains adaptor                     |
| CMC640               | 12v lead                               |
| CAT640               | Flexible antenna                       |
| CBH640               | Spring loaded belt clip                |
| CL640                | Carry strap                            |
| User manual          |  |

| Receive            |                                |
|--------------------|--------------------------------|
| Sensitivity        | -119dBm (12dB sinad)           |
| Intermediate       | 21.7MHz and 450KHz frequencies |
| Intermodulation    | >68dB                          |
| Spurious response  | >70dB                          |
| Audio output power | 500mW (<5% distortion)         |
| Selectivity        | >74dB                          |
| Spurious emissions | >67dB                          |
| Hum and noise      | >48dB                          |

'the professional's choice'

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'intelligent thinking'  
by Entel



## HT640

Submersible  
Dependable  
Tough



**Entel UK**

# HT640 features



## **Powerful**

Delivers a full five watts RF power on high power, switchable to one watt low power should you wish to conserve battery life.

## **Dependable**

The HT640 utilises state of the art technology with leading edge features, ensuring that it can be depended upon in the most extreme conditions.

## **Submersible**

JIS stands for Japanese Industrial Standards. Level 7 is a submersible rating. The HT640 can withstand being submersed to a depth of one metre for 30 minutes.

## **Commercial Grade Construction**

Meeting MIL STD 810C/D/E rating for tough, enduring performance, the HT640 conforms to stringent standards, enabling it to withstand the every day rigors of shock, vibration and the corrosive action of dust and moisture, ensuring many years of trouble free use in a salt water environment.

## **Ergonomic**

Large rubber armoured volume control and side grips make HT640 easy to grip with wet or gloved hands.

## **Feature Rich – Simple To Use!**

With all its technological advances the HT640 remains very simple to use, with the majority of its features accessed by a single key depression.

## **Superior Audio Quality**

Latest compander noise reduction technology delivers loud and crisp audio no matter what environment you are in.

## **Battery Life Indicator**

Continually monitors battery state for your safety and convenience.

## **Built In Voice Scrambler**

Enabled at the press of a button, this feature ensures privacy between you and other HT640 radios used in your system. Your radio calls will be loud, crisp and clear whilst potential eavesdroppers monitoring the same channel will hear unintelligible garble.

## **Lithium-Ion Battery Technology**

This very latest battery technology gives you three big advantages:

1. Huge fifteen hour duty cycle with supplied CNB640E battery pack.
2. Not prone to the dreaded memory effect that Nicad and Ni-MH battery packs suffer from, therefore no more need to fully discharge your battery pack before charging!
3. Stores a charge up to three times longer than a Nicad.

## **A/B Quick Access Channels**

Immediately recalls two user assigned channels, for speed and convenience.

## **VOX**

Hands free operation when used with a VOX accessory.

## **Scanning**

Ultra fast MEM<sup>®</sup> scan searches through memorised channels to ensure no lost calls.

## **Private Channels**

The HT640 has a capacity for an additional 36 private channels, which can be programmed by your dealer.

## **Three Year Warranty**

The HT640 transceiver is supported by a three year manufacturers warranty.



# HT640 accessories



**CSA640E**



**CMP1/640**



**CMP350**



**EA19/640**



**EA15/640**



**CXR5  
skull mic**



**CHP1/640**



**CHP640HS**



**CHP640D**



**CXR16**



**CLC640T and CLC640**



**CFC640  
red, yellow and blue**

## Accessories not pictured

- CNB640E** 7.4v, 1800mAh lithium-Ion battery
- CSB640E** Six pod intelligent rapid charger, 110-230v
- CST640E** Six pod battery analyser
- EPT19** Bone conductive earpiece microphone

- MSP01** Crash helmet earpiece mic with remote PTT
- CXW640** Antenna adaptor for external aerial connection
- EHP640** Covert style earpiece

For the latest range of accessories visit [www.entel.co.uk](http://www.entel.co.uk)