

# 'radiating intelligence' by Entel



## **HX400 Series**

Compact & Lightweight  
Intelligent & Simple Variants

Durable  
Powerful



**Entel UK**

# HX400 Series features



**Pocket sized & light weight** - Half the size of most of its competition the HX400 Series is one of the smallest radios in Europe. Weighing just 274g the HX400 is small enough to slip into any pocket with ease.

**Powerful** - The HX400 delivers a full 5 watts of RF on VHF and 4 watts on UHF - the maximum power available on the licensed band. This versatile model allows you to use different power levels per channel, to a minimum of 1 watt for those users requiring less range, and improved duty cycle.

**Robust Construction** - Designed to offer tough, enduring performance, the HX400 Series offers the highest level of durability as would be expected from a commercial grade radio, ensuring years of trouble free use.

**High Audio output** - No more wasted time due to misunderstood or unintelligible calls; the HX400 Series delivers exceptionally loud audio comparable to radios twice its size, ensuring clear and intelligible transmission each and every time.

**VOX (Voice Operated Transmit)** - Allows hands free operation when used with a VOX accessory. This feature also incorporates auto VOX sensing which conveniently detects ambient noise level and automatically sets the optimum VOX threshold.

**Built in Voice Scrambler** - Enabled at the press of a button this feature ensures privacy between you and other HX400 users in your radio system. Your radio calls will be loud, crisp and clear whilst potential eavesdroppers monitoring the same channel will hear unintelligible garble.

**Programmable buttons** - For your convenience all buttons are programmable to give you instant access to any of the advanced features offered by the HX400, making operation simple, logical, and intuitive, with clear LCD screen graphics to indicate the selected operating mode.

## **Simple version - (HX420, HX480)**

Offers all the advantages of a high performance transceiver, but with basic features, and no selective calling. This will suit users who operate their radio system in a simple conventional mode.

## **Intelligent version - (HX410, HX421, HX481)**

The HX400 intelligent version offers the most advanced features available today and will positively enhance your safety, security and peace of mind with dependable, trouble-free use. Our network of authorised dealers will tailor Entel's radios to your exact requirements ensuring optimum system performance.

### **For - Safety**

- Emergency alarm button
- Automatic Man Down alarm
- Automatic Lone Worker alarm
- Emergency live microphone
- Shunting feature

### **For - Security**

- Password access
- Stun & Unstun feature (in case radio lost or stolen)

### **For - Convenience**

- Open or Closed channel modes
- Call an individual, group or every radio at once
- Contact list (similar to a mobile phone)
- Speed dial
- Who's calling
- Missed call list
- Status call (used to send text)
- Scan & Priority scan
- Channel naming
- Graphic display
- 2/5 tone selcall
- DTMF
- Flash upgradeable for future enhancements

**Lithium-Ion Battery Technology** - The HX400 Series uses the latest battery technology, which provides three main advantages:

1. The supplied CNB400E provides up to 14 hours use on a single charge.
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 3 times longer than a Nicad.



# HX400 Series accessories



**CSA400E**



**CMP1/400**



**CMP400**



**EA19/400**



**EA15/400**



**CXR5/400**  
skull mic



**EPT40/400**



**CXR16/400**



**CHP400D**  
(vox)



**CHP400HS (vox)**  
shown with optional large PTT button



**CLC400**



**CFC400**

## Accessories not pictured

- CNB400E** 1800mAh Li-Ion battery pack
- CMC400E** 12v trickle charger
- CSB400E** 110-230VAC Six bank rapid charger
- CAT400VS** Stubby antenna VHF

- EA12/400** Earpiece microphone and PTT
- CAT400US** Stubby antenna UHF
- CHP1/400** Light weight single earpiece headset
- EHP400** Cover style earpiece

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

# technical specifications



General	
Freq. range (HX410)	66 - 88MHz
Freq. range (HX420, HX421)	138 - 174MHz
Freq. range (HX480, HX481)	403 - 470MHz
Modulation	8K0G3E / 16K0G3E
Channel capacity	Up to 256
Channel spacing	12.5KHz / 25KHz
Operating Voltage	7.4v DC
Temperature range	-20°C to +55°C
Current drain:	
Standby	75mA
Receive	230mA
Transmit	1600mA
Duty cycle (5/5/90)	11.5 hours (high) / 14 hours (low)
Dimensions:	100mm(h) x 61mm(w) x 31mm(d)
Weight:	274g

Supplied Accessories	
CNB400E	1800mAh Li-Ion battery pack
CBH400	Spring loaded belt clip
	High efficiency antenna
	User manual

Transmitter	
RF power output	5W (VHF) / 4W (UHF)
Hum & noise level	>40dB
Spurious emissions	<36dB
Max. Deviation	2.5KHz / 5.0KHz
Harmonic distortion	<5% (at 1kHz)
Frequency stability	< 2.5ppm (5ppm low band)

Receiver	
Sensitivity	<1uV for 20dB sinad
Threshold squelch sensitivity	< 0.2uV
Selectivity	< 60dB/70dB
Spurious response	> 70dB
Intermodulation	> 65dB
Blocking	> 85dB
Audio output power	1 Watt
Audio distortion	< 5%
Frequency stability	< 2.5ppm (5ppm low band)

Full & detailed specification available on request.

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