Entel

Compact
Intelligent
Tough

Man Down Alert

Calling for assistance....

Security Channel

HX Series 2.0

HX series features

HX Series 2.0 – a model for every application. From entry level to sophisticated MPT1327 trunked variants, the HX Series 2.0 is built without compromise to deliver loud and crisp audio using the latest compander noise reduction technology.

Commercial Grade Construction – exceeding MIL STD 810/C/D/E/F rating for tough enduring performance, the HX Series 2.0, with its up-rated IP55 splash proof construction, is designed to withstand the every day rigours of shock, vibration, dust and moisture, ensuring many years of trouble free use in the most hostile environments.

Simple Or Sophisticated – you choose. Need simple speech communications? Then our entry level PMR radios will meet all your needs. Entel's mid level radios give you all the facilities you might expect from our competitors' products, while our top of the range radio is arguably the most versatile radio you can buy.

Intelligent Lithium-Ion Battery With Built In Charge Cycle Monitoring – this very latest technology gives you four essential advantages:

1) For your convenience the HX Series 2.0 will count charge cycles of your battery pack, warning you when it is nearing the end of its life. Models equipped with an LCD will also display the battery charge count.

2) Extended duty cycle.

3) Not prone to the dreaded memory effect that Nicad and Ni-MH battery packs suffer from, therefore no need to fully discharge your battery pack before charging.

4) Stores a charge up to three times longer than a Nicad battery.

Intuitive Menus – the high tier versions of the HX Series 2.0 radios offer extensive features which provide added user benefit, but without added operational complexity. Entel believes that even with advanced features a portable transceiver should be easy to use, so our new high tier range employs the kind of intuitive user interface that will be familiar to anyone who has used a mobile phone.

Safety Features – all but the PMR446 models in the HX Series 2.0 have additional safety options accessed either by programming (panic button with remote alert and Lone Worker), or by an additional options board (Man Down). Radios can also be programmed to respond to emergency situations in a variety of ways – by issuing a silent alarm, opening a "live" microphone, or continuing the alarm even if the radio is switched off.

Whisper Mode – when discreet communications are necessary, in covert or emergency situations, the HX series "whisper mode" will ensure that quiet speech can still be heard clearly by other radio users. Note: not available on entry & PMR446 models.

Bluetooth (option) – for convenience, wireless transmit is available on all models, allowing for connection of Entel's Bluetooth audio accessory range, as well as data transmission devices.

Location Information (option) – whether for convenience or security, all 2.0 Selcall versions offer Bluetooth indoor beacon positioning and outdoor GPS positioning options, for pinpointing the exact location of a user or navigating emergency assistance to the site of a disturbance or casualty.

Heavy duty locking accessory connector

Pictured: Radio with optional stubby antenna and dual slot CSAHX rapid charger

Model Selection:

	Entry	Entry Selcall	Advanced Signalling	Advanced Signalling Keypad
Land VHF (30 - 50MHz)	HX402	HX402S	HX405	HX406
Land VHF (66 - 88MHz)	HX412	HX412S	HX415	HX416
Land VHF (136 - 174MHz)	HX422	HX422S	HX425	HX426
Land UHF (400 - 470MHz)	HX482	HX482S	HX485	HX486
Land UHF (450 - 520MHz)	HX482-U	HX482S-U	HX485-U	HX486-U
PMR446	See PMR446 Brochure			
MPT1327	See MPT1327 Trunked Brochure			

	Entry	Entry Selcall	Advanced Signalling	Advanced Signalling Keypad
General Features				
Environmental protection to IP55	✔	✔	✔	✔
MIL STD 810C/D/E/F	✔	✔	✔	✔
1800mAH Li-Ion battery	✔	✔	✔	✔
Flash upgradeable to add future features	✔	✔	✔	✔
Robust accessory socket	✔	✔	✔	✔
Programmable accessory connector	✖	✔	✔	✔
Number of channels	16	16	255	255
Scrolling graphic LCD display	✖	✖	✔	✔
Channel naming	✖	✖	✔	✔
Multi-function encoder control	✖	✖	✔	✔
Scan/priority scan	✔	✔	✔	✔
Voice annunciation (option)	✔	✔	✔	✔
Bluetooth wireless comms (option)	✔	✔	✔	✔
Clone data from one radio to another	✔	✖	✖	✖
For - Convenience				
VOX hands free	✔	✔	✔	✔
Programmable channel monitor button	✔	✔	✔	✔
2/5 tone selective calling & FFSK	✖	✔	✔	✔
Open or Closed channel modes	✖	✔	✔	✔
Call a group, individual or all radios at once	✖	✔	✔	✔
16 pre-programmed contacts	✖	✔	✖	✖
255 user contact list (just like a mobile phone)	✖	✖	✔	✔
Multiple ringtones	✖	✔	✔	✔
Battery charge count (requires LCD to display)	✔	✔	✔	✔
Battery level indicator	✖	✖	✔	✔
Low battery warning	✔	✔	✔	✔
Receive signal strength indicator	✖	✖	✔	✔
Invert display	✖	✖	✔	✔
Talkaround	✔	✔	✔	✔
Intuitive menus (like a mobile phone)	✖	✖	✔	✔
Info button (user guide built in to radio)	✖	✖	✔	✔
Speed dial	✖	✖	✔	✔
Who's calling (caller ID)	✖	✖	✔	✔
Missed, received & dialled numbers lists	✖	✖	✔	✔
Selectable "profiles" General, Silent & DND (with auto respond)	✖	✖	✔	✔
DTMF dial mode	none	stored	stored	stored/keypad
For - Security				
Stun & alarm a lost or stolen radio (& revive if found)	✖	✔	✔	✔
Programmable scrambler	option	✔	✔	✔
Power on password option	✖	✖	✔	✔
For - Safety				
Local Personal Attack Alarm	✔	✔	✔	✔
Panic button with remote alert	✖	✔	✔	✔
Emergency microphone live	✖	✔	✔	✔
Lone Worker alarm mode	✖	✔	✔	✔
Man Down basic (option)	✖	✔	✔	✔
Man Down 3 axis/accelerometer (option)	✖	✔	✔	✔
Shunting mode (for rail companies)	✖	✔	✔	✔
Silent alarm call mode	✖	✔	✔	✔
Continue alarm even if switched off	✖	✔	✔	✔
Manual location information with emergency	✖	✖	✔	✔
Bluetooth fully automatic indoor location (option)	none	send	send/display	send/display
GPS location information with emergency (option)	none	send	send/display	send/display
GPS "navigate to" casualty (option)	✖	✖	✔	✔
For - Text Messaging And Emails				
Status messages	none	send	send/display	send/display
Predefined text messages	none	none	send/display	send/display
Free format text/email text messages	none	none	display	send/display

'the professional's choice'

CSAHX

CSBHX

CMP450

EA19/450

EA15/450

EA12/450

CXR5/450
skull mic

CXR16/450

CHP450D

CHP450HS

For the latest and complete range of accessories visit
www.entel.co.uk

technical specifications

General Features

RF power output	VHF - 5 Watts (high) / 1 Watt (low)
	UHF - 4 Watts (high) / 1 Watt (low)
Frequency range VHF Low	30 to 50MHz
Frequency range VHF Mid	66 to 88MHz
Frequency range VHF High	136 to 174MHz
Frequency range UHF	400 to 470MHz
Frequency range UHF u/band	450 to 520MHz
Channels	See general features list
Environmental rating	IP55
Military Standard	MIL STD 810C/D/E/F
Dimensions*	100mm(h) x 62.5mm(w) x 39.5mm(d)
Weight	233g (with battery and antenna)
Audio output	700mW - distortion: < 3% @ 500mW

*Dimensions are based on radio with attached battery, excluding knobs, antenna and protrusions.

Supplied Accessories

7.4v, 1800mAh Li-Ion battery

CSAHX rapid charger is included with HX4X2 and HX4X2S

Spring loaded belt clip

High efficiency antenna

User manual

For a full and detailed specification visit our web site www.entel.co.uk

Your local professional dealer