Business
Critical
Communications

Entel

BEST WALKIE TALKIE

DX425E

Commercial Grade Land Portable

- Advanced engineering for crystal clear audio
- Submersible IP68
- Ultra compact

DMR
DIGITAL MOBILE RADIO ASSOCIATION

Digital | CRYSTAL CLEAR AUDIO
Migration
Simplified

Actual size

BESTWALKIETALKIE.COM

Entel DX400E Series

Digital Portable Radios

Ultra compact, lightweight and dual-mode (Analogue and Digital), the rugged and fully-submersible DX400E Series radios deploy the latest DMR digital technology combined with Entel audio tailoring technology to ensure the best possible range and clarity.

Whether you need a basic entry level radio, advanced digital features, or something in between, the three DX400E Series models deliver smart solutions, helping you to increase productivity and to keep your business connected. Our digital radios are available in licensed and license free variants.

By combining innovative technology unique to Entel, with the globally accepted DMR standard and a robust IP68 submersible enclosure, Entel has produced the most exciting range of digital radios on the market today. Entel's DX400E Series radios deliver a best-in-class performance, range and clarity.

Key Benefits

IP68 Submersible

The DX Series can withstand total immersion in water to a depth of 2 meters for 4 hours, more than a match for the hazards likely to be encountered in any field of operation.

High Contrast OLED

Entel's high contrast white on black OLED display provides exceptional readability at all angles both indoors and out.

Powerful Package

Compact, versatile and powerful, Entel's DX400E Series radios offer best-in-class performance, with an impressive 2 watts of natural-sounding digital audio, exceeding the output of radios almost twice their size. In addition, all of the DX Series' range of audio accessories benefit from Entel's unique speech optimisation technology.

Entel Sure Speech™

Entel intelligent speech tailoring technology optimises audio, delivering the very best clarity, volume and natural sound.

Migrate Your Way

Entel's DX400E radios offer both analogue and digital modes offering a migration path from existing analogue radio systems.

For advice specific to your needs, please contact your Entel Dealer.

Exceptionally Robust

Entel's development team recognise that durability and reliability go hand-in-hand. To meet the requirements of the most demanding users, the DX Series is tested to MIL-STD-810 C, D, E, F and G for temperature, thermal shock, pressure, vibration, impact shock, solar radiation and rain and dust ingress. Entel's rigorous life-cycle testing ensures users can expect many years of trouble-free use.

High-Grade Accessory Interface

The rugged, multi-pin interface and Micro-USB socket are both submersible and gold-plated to minimise any risk of damage or corrosion. All Entel's accessories incorporate a robust locking plug and high-grade cable.

The DX400E Series has been future-proofed with new features supplied as free software upgrades.

Key Features

- ✓Compact, rugged
- ✓IP68 submersible
- ✓Digital and analogue modes
- ✓Superior battery endurance
- ✓2 watts of audio, loudest in class
- ✓Intelligent audio technology
- ✓Audio accessory optimisation
- ✓Extensive contact list (display models)
- ✓Outstanding range performance
- ✓High contrast white on black OLED display
- ✓Two-slot simplex operation
- ✓Software upgradable for extra features / updates
- ✓Greater data capability

Technical Specification

Specification	
Frequency Range	VHF 136-174MHz
Channel Capacity	DX425E – 99 channels / 8 zones
Analogue Channel Spacing	25KHz/12.5KHz
Digital Channel Spacing	12.5KHz
Vocoder	AMBE+2
Operating Voltage	7.6V
Battery	CNB450E 2000mAh Lithium-Ion
Weight (with battery)	267g with CNB450
Overall Dimensions (HxWxD)	97mm x 59.5mm x 37mm (with CNB450E)
Frequency Stability	1.5ppm
Antenna Impedance	50 ohm
Operating Temperature	-20 to +55°C
Dust and Liquid Intrusion	IP68 2 metres for 4 hours
Drop Test	MIL-STD 810 C/D/E/F/G Standard
Packing Test	MIL-STD 810 C/D/E/F/G Standard
Vibration and Shock	MIL-STD 810 C/D/E/F/G Standard
Approvals	Analogue mode RF EN 300 086 v2.1.2 Digital mode RF 300 113 v2.2.1 EMC EN 301 489-1 v2.2.0 & EN301 489-5 v2.2.0 Safety (LVD) EN 60950:2006, A1, A11, A12 & A2 SAR EN 50566:2017, EN 62311:2008 & EN 62209-2:2010
Air Interface (DMR)	ETSI TS 102 361

Transmitter	
Power Output VHF (HI/LOW)	5W/1W
Modulation Type	7K60FXE / 7K60FXD, 8K0F3E, 16K0F3E
Distortion	2%/5% digital/analogue
Unwanted Emission	0.25uW/1.0uW <1GHz/>1GHz
Adjacent Channel Power	-60dBc
Receiver	
Digital Sensitivity	Typically -121dBm (0.2uV) for 5% BER
Analogue Sensitivity	Typically -121dBm (0.2uV) for 12dB Sinad
Rated Audio Output	2 watts
Intermodulation	-42dBm
Adjacent Channel Selectivity	60dB (Digital) 60/70 (Analogue 12.5/25KHz)
Spurious Response Rejection	-37dBm
Spurious Radiations	2.0nW/20nW <1GHz/>1GHz

Accessories

Supplied package includes: Li-Ion battery pack, rapid drop-in charger, belt clip, high-efficiency antenna and quick-start user guide.

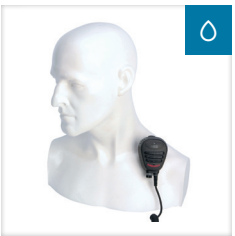
CSBHX
Six-way charger

EA12/DX
Earpiece microphone

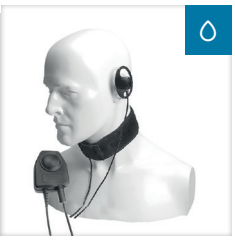
EA15/DX
Covert earpiece microphone

CHP450HS/DX*
Hard hat ear defender submersible PTT

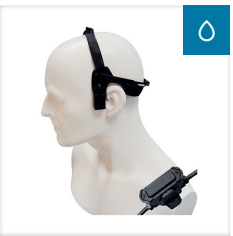
CHP450D/DX*
Headband ear defender submersible PTT



CMP/DX
Submersible heavy-duty speaker microphone



CXR16/DX*
Bone conductive throat mic, submersible PTT



CXE19/DX
Submersible bone Conductive skull mic

Submersible products are represented with a water droplet.

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

* Submersible - PTT only

V2.2 All Rights Reserved. Copyright Entel UK Ltd.

Contact

For more information about our products, please contact us:
LRS UK, Link House, 1880 Leek Road, Stoke on Trent, Staffordshire, ST2 7AH, United Kingdom

+44(0)1782 537000 BESTWALKIETALKIE.COM