

# DX-IS Series

Intrinsically Safe, Commercial Marine Portables



EN60945 Marine Approval



UL913 Intrinsically Safe Certified



DMR Digital & Analogue modes



Submersible IP68



Tough | CRYSTAL  
CLEAR  
AUDIO  
Submersible  
Dependable



# DX-IS Series

## Intrinsically Safe, Commercial Marine Portables

Available in either VHF or UHF, display and non-display models, the commercial grade DX-IS Series sets the benchmark for next-generation onboard intrinsically safe portables.

Standard features include both analogue and digital\* modes of operation, high visibility OLED display, high torque ergonomic controls designed for gloved-hand use, and industry-leading IP68 2m 4 hours submersible rating, to provide excellent reliability and usability even in the most extreme conditions.

### Loud and Clear Audio

Using the latest noise reduction technology, our DX-IS portables deliver best in class, loud and intelligible audio, essential when working in high ambient noise environments.

### Intrinsically Safe Approved

Approved and certified to UL913, for users who do not need to comply with the European ATEX directive.

### Voice Annunciation

This programmable feature gives further assurance to the user that they've selected the correct channel allowing them to focus on the task in hand. It can also announce low battery warning and battery status.

### Benefits of Digital

Aside from crystal clear intelligible audio, there is increased range and battery endurance. DX-IS also supports analogue mode ensuring backwards compatibility with any existing analogue radios on board.

### Simple Onboard Reprogramming App

With our free, unique and simple to use PC app, you can easily re-program a DX-IS radios whilst still onboard. The user friendly app makes it easy to drag and drop a new programming file from an email to your DX-IS radio(s). This is a simple and intuitive process that can be carried out by non-technical personnel.

See video @ [entel.co.uk/dx-prog](https://www.entel.co.uk/dx-prog)

\*Digital mode only available on UHF models

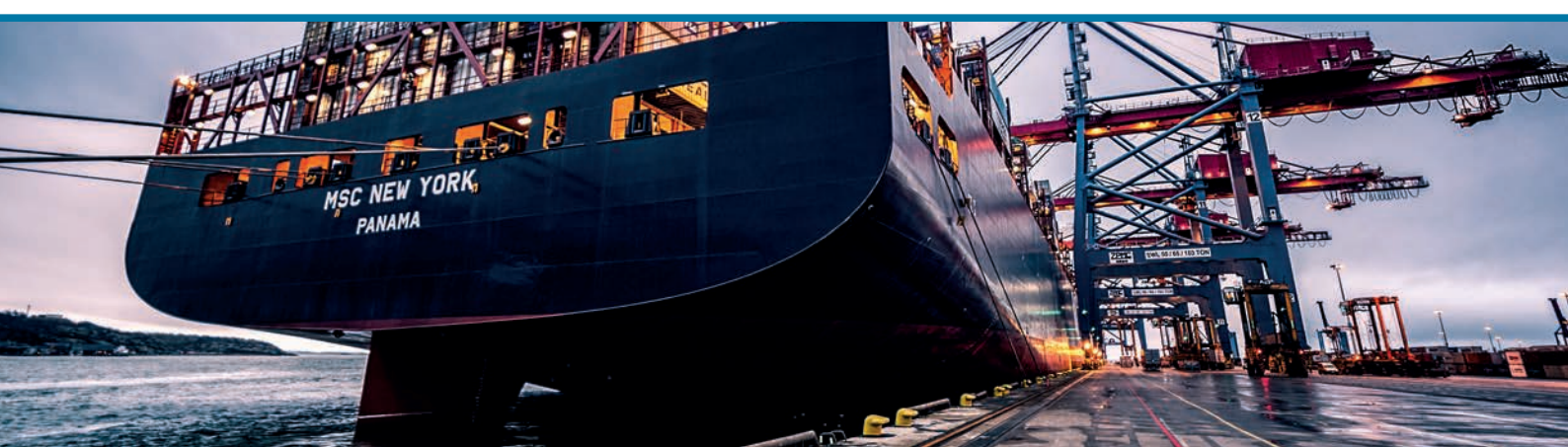


Informative display shows both the channel number and the frequency



Non display model

Display model



## Migrate to Digital Your Way

DX-IS UHF radios support both analogue and digital technologies. Supporting both technologies ensures backwards compatibility with existing analogue radio systems and a simple migration path to the many benefits of digital communications.

## Intelligent Batteries

Entel's intelligent Lithium-Ion batteries are designed to deliver optimum performance and safety. In digital mode the DX-IS radio has a market leading duty cycle of 22 hours from a single charge.

## Versatile Range of Accessories

From headsets to speaker microphones and advanced bone conduction technology, Entel offer a complete portfolio of accessories to ensure you stay connected.



# Commercial Marine Grade Construction

### EN60945 Compliant

Meets essential maritime environmental standards

### Precise Control

High torque volume and channel controls give clear feedback and control

### Corrosion Protection

Battery terminals use galvanic corrosion protection to ensure optimum efficiency

### Positive Feedback Controls

Ultra tactile buttons that give positive feedback, even with a gloved hand

### IP68 rated

Submersible for 4 hours to a depth of 2 metres, critical for marine usage

### Locking accessory connector

All DX-IS accessories incorporate a robust locking connector to further safeguard the user

### Built to Last

Saltwater anti corrosion coating on chassis, designed for the maritime environment

### Gold Plated Contacts

To ensure reliable operation in the harsh maritime environment



## Model List - VHF

Model (non EU market only)	Gas Group	Frequency	Display / Non display	Analogue / Digital	RF power
DX542-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	VHF	Non	Analogue	1 & 5 watts
DX544-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	VHF	Display	Analogue	1 & 5 watts

## Model List - UHF

Model (non EU market only)	Gas Group	Frequency	Display / Non display	Analogue / Digital	RF power
DX582M-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	UHF	Non	Analogue & Digital	1 & 4 watts
DX585M-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	UHF	Display	Analogue & Digital	1 & 4 watts

## Key Features

- ✓ Commercial grade construction
- ✓ IP68 submersible
- ✓ Digital and analogue modes
- ✓ Outstanding range and performance
- ✓ Crystal clear audio
- ✓ High contrast white on black OLED
- ✓ Simple on-board reprogramming app
- ✓ Extensive range of approved accessories
- ✓ Audio accessory optimisation

# Technical Specification

General			
Frequency Range	VHF UHF	156 to 163.275MHz 450-470MHz	
Channel Spacing	12.5 & 25KHz		
Operating Voltage	7.6v		
Weight	289g		
Overall Dimensions (HxWxD)	97mm x 59.5mm x 37mm (with CNB450E-IS)		
Channels	VHF UHF	INT/USA/CAN mode plus private up to 256	
Channels non display version		up to 16	
Battery Endurance (5/5/90) *non display models have improved duty cycle of 15%	<b>Model</b> DX542/544 DX582/585	<b>Analogue mode</b> 18 hours 18 hours	<b>Digital mode</b> n/a 22 hours
Transmitter			
Output Power UHF	1 & 4 watts		
Output Power VHF	1 & 5 watts		

Environmental

Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	MIL-STD810 C/D/E/F/G
Humidity	
Shock & Vibration	
Packing Test	
Drop Test	
Water Ingress	IP68 2 metres, 4 hours submersible

For sale to outside of Europe and for foreign flag vessels.

Intrinsically Safe Certified to UL913 by SGS:

- ANSI/UL913 5th Ed
- Class I,II,III, Division 1, Groups C-G, T3
- Class I, Division 2, Groups A-D

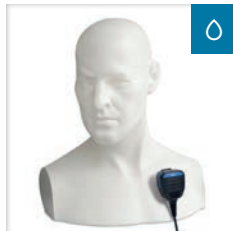
UL913	Atmosphere	Class I II III	Class I – Gas, vapors; Class II – Dust; Class III – Fibers, Flyings
	Area Classification (Flammable material present time)	DIV I	Division 1: Gas/Dust normally present in explosive amounts
	Gas Types by Group:	Group C	C – Ethylene and related products
	Dust Types by Group:	Group G	G – Grain and non-metallic dust
	Operating Temperature	-30 to 55	-22°F to 131°F
	Temperature Class (Maximum device surface temperature)	T3	200°C

## Accessories

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



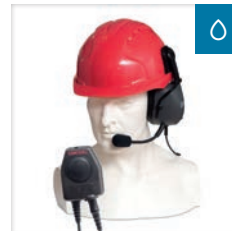
**CSBHX**  
Intelligent six-pod rapid charger



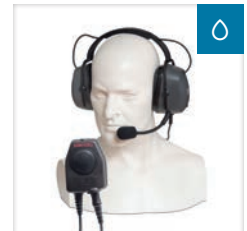
**CMP/DXS-IS**  
– simple version  
**CMP/DXE-IS**  
– with earpiece socket  
Heavy duty speaker microphone



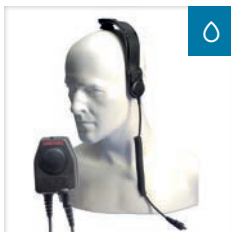
**CLCDX2** – non display  
**CLCDX5** – display  
A heavy duty leather carry case with swivel belt loop and strap



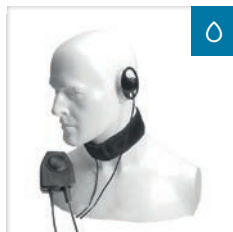
**CHP450HS/DX\***  
Single sided ear defender headset for hard hat use



**CHP450D/DX\***  
Double sided ear defender headset with headband



**CXR5/DX\***  
Bone conductive skull mic with heavy duty PTT



**CXR16/DX\***  
Throat mic / earpiece with heavy duty PTT



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

Full list of accessories available online.

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## Contact

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