

Business
Critical
Communications



DX-IS Series

Intrinsically Safe, Commercial Grade 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 Grade 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

Our DX-IS Series delivers loud and intelligible audio, essential when working in high ambient noise environments. The accessory range incorporates a robust locking plug, high-grade cable and intelligent speech tailoring technology that automatically optimises the audio for the type of accessory connected always ensuring very best performance.

Intrinsically Safe Approved

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

Voice Annunciation (non-display models only)

This programmable feature is available on our non-display models only. It assures the user that they've selected the correct channel, allowing them to focus on the task at hand. This feature also gives a confirmation of button settings, e.g. 'Keylock On', 'Keylock Off', battery level status and warns user when the battery is low.

Benefits of Digital

Available on UHF models only, the DX-IS Series digital mode eliminates analogue hissing and interference noise providing crystal clear audio, increased range and battery endurance. DX-IS Series also supports analogue mode ensuring backwards compatibility with any existing analogue radios on board.

Easily Reprogram your radios ...even at sea !

With our free, unique and simple to use PC app, you can easily reprogram 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



Informative display on UHF model shows both the channel number and the frequency



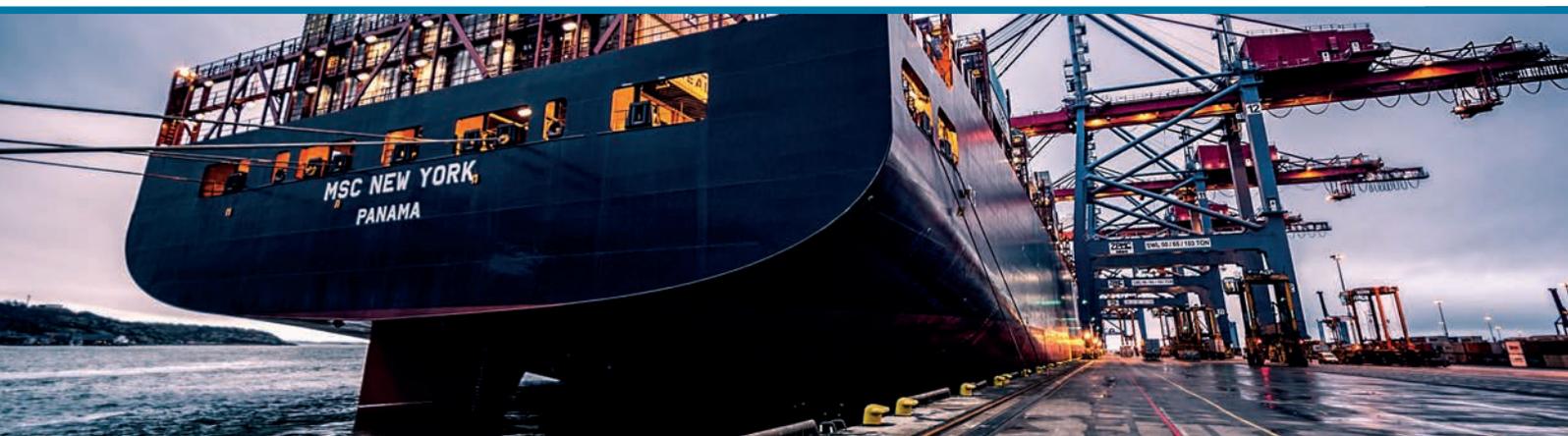
VHF display shows the channel name and number



Non display model

UHF model

VHF model



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 21 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, Groups C-G, T4, Class I, Division 2, Groups A-D, T4	VHF	Non	Analogue	1 & 5 watts
DX544-IS	Class I, II, III, Division 1, Groups C-G, T4, Class I, Division 2, Groups A-D, T4	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, Groups C-G, T4, Class I, Division 2, Groups A-D, T4	UHF	Non	Analogue & Digital	1 & 4 watts
DX585M-IS	Class I, II, III, Division 1, Groups C-G, T4, Class I, Division 2, Groups A-D, T4	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
- ✓ Voice annunciation (non-display models only)

Technical Specification

General			
Frequency Range	VHF	156-163MHz	
	UHF	450-470MHz	
Channel Spacing	12.5KHz & 25KHz		
Operating Voltage	7.6v		
Battery	CNB450E-IS 2200mAh Lithium-ion		
Weight	Display model 269g Non display model 259g		
Overall Dimensions (HxWxD)	97mm x 59.5mm x 37mm (with CNB450E-IS)		
Channels	VHF	INT/USA/CAN mode plus private up to 99	
Channels non display version	UHF	up to 16	
Battery Endurance (5/5/90)	Model	Analogue mode	Digital mode
	DX542/DX544	14 hours	n/a
	DX582/DX585	14 hours	21 hours
Transmitter			
Output Power UHF	1 & 4 watts		
Output Power VHF	1 & 5 watts		

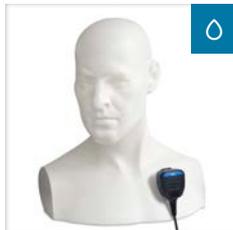
Environmental			
Operating Temperature	-20°C to +55°C		
Storage Temperature	-40°C to +85°C		
Thermal Shock	Compliant MIL-STD810 C/D/E/F		
Humidity			
Shock & Vibration			
Packing Test			
Drop Test			
Water Ingress	IP68 2 metres, 4 hours submersible		
For sale to outside of Europe and for foreign flag vessels.			
Intrinsically Safe Certified to UL913 by SGS:			
<ul style="list-style-type: none"> - ANSI/UL913 5th Ed - Class I,II,III, Division 1, Groups C-G, T4 - Class I, Division 2, Groups A-D, T4 			
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	-20 to 55	-22°F to 131°F
	Temperature Class (Maximum device surface temperature)	T4	135°C

Accessories

Supplied package includes: Li-ion battery pack, 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



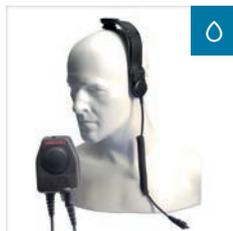
CLCDX2 – non display
CLCDX5 – display
A heavy duty leather carry case with swivel belt loop and strap



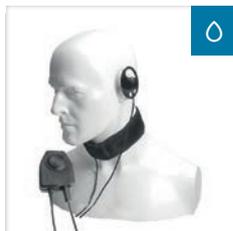
CHP450HS/DX*
Single sided ear defender headset for hard hat use



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.

V3.0 All Rights Reserved. Copyright Entel UK Ltd.

Contact

For more information about our products, please contact us:
Entel UK, 320 Centennial Avenue Centennial Park, Elstree, Borehamwood, Hertfordshire WD6 3TJ, United Kingdom

 +44 (0)20 8236 0032

 info@entel.co.uk

 entel.co.uk

Designed in the United Kingdom

