DTEx Marine Series

DT500 | DT800 | DT900

Quick Start User Guide

Entel

Designed in the United Kingdom

DTEx Marine Series

DT500 | DT800 | DT900

INTRODUCTION

The DTEx Commercial Marine Series is an industrial grade marine radio approved to the European EN60945 Maritime standard for onboard ship use.

Your radio can be configured with Digital and Analogue channels (VHF models analogue only) and to meet your exact requirements the radio may have been customised by your Entel Dealer. These features will be explained in a separate guide issued by the Dealer.

PACKING LIST

- DTEx Series radio
- Li-ion battery pack
- Drop in charger
- Spring loaded belt clip
- High efficiency antenna
- Quick start user guide

OPTIONAL ACCESSORIES

Attaching and removing accessories

To attach an accessory, remove the accessory cover by unscrewing the locking screw anticlockwise (leave cover attached or store in a safe place).

Plug the accessory into the socket, then carefully tighten the locking screw clockwise until finger tight (do not over-tighten or use any implement).

To remove an accessory, unscrew the locking screw of the accessory by hand in an anticlockwise direction.

To prevent corrosion or damage to the accessory connector terminals ensure either a) the accessory cover is fitted or b) an accessory is securely fitted, never leave the terminals exposed.

BATTERY INFORMATION

Battery care

DO NOT CHARGE BATTERY IN I.S. AREA!

Battery charging

1. Connect the AC adapter to the charger pod and plug in.
2. Turn the radio off.
3. Insert the battery pack into the charger pod, either with or without the radio attached. The charger LED status light changes to red and charging begins.
4. When charging is complete the charger LED status changes from red to green. A fully discharged battery pack will take approximately 6 hours to recharge.

A flashing red LED on the charger indicates there is a problem with the battery. Remove the battery from the charger and consult your Entel Dealer.

CAUTION

BATTERY PACK PRECAUTIONS

- Do not recharge the battery pack if it is already fully charged. Doing so may reduce the life of the batterypack.
- After charging is complete, remove the battery from the charger. If the power to the charger is turned off and on again, charging will restart and the battery will become overcharged.
- Please ensure that the radio is turned off before placing it in the charger and never switch a radio on whilst in the charger.
- Only battery packs and chargers stating they are “Part of IECEx BAS 18.0094X and Baseefa18ATEX0152X” may be used.
- Do not short the battery terminals or dispose of the battery in a fire.
- Do not charge the radio and/or battery pack if they are wet.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

DANGER

DO NOT DISASSEMBLE OR MODIFY THE BATTERY IN ANY WAY!

Your Entel battery pack incorporates a safety circuit to avoid danger. If the safety circuit is damaged or bypassed, or the battery cells are damaged directly, they may generate extreme heat, smoke, rupture and emit flames.

REPAIR & MAINTENANCE

Repair and maintenance of this product can only be carried out by Entel. Any damage to the anti-tamper seal will invalidate the product approval. Should you have any difficulties in operating this product please contact your Entel Dealer for support.

CONTROLS & INDICATORS

NON DISPLAY

1. On/Off/Volume control.
   Rotate clockwise to turn on and increase volume. Rotate anticlockwise to reduce volume and turn off.
2. Channel control
3. Accessory socket
4. Push-To-Talk (PTT) button.
   Press to speak and release to listen.
5. Dealer programmable buttons
   (ask your Dealer for more information)

DISPLAY - UHF MODEL

6. LED indicator
   - Red Steady - Transmitting
   - Red Double Flash - Low Battery
   - Red Fast Flash - Error
   - Green Steady - Receiving
   - Green Steady (AM) - Monitoring Channel
   - Green slow flash (DM) - Digital call hang time
   - Amber steady - Receiving invalid signal
   - Amber Flash every 5-seconds - Radio in standby
   - Amber Rapid Flash - Scanning

DISPLAY - VHF MODEL

7. Navigation key - channel up/down
8. Microphone
9. Squelch
10. Quick access channel 16
11. Scan memorised channels
12. Programmable button
13. Memorise channels for scan

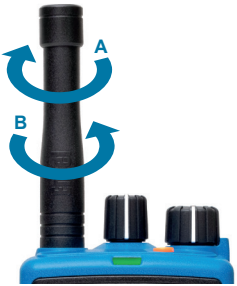
Model	Description	ATEX	IECEx	Permitted models
CNB550EV2	1800mAh Li-Ion battery pack		✓	DT500 Series
CNB950EV2	1800mAh Li-Ion battery pack	✓		DT800, DT900 Series
CMP/DT5	Remote speaker microphone		✓	DT500 Series
CMP/DT9	Remote speaker microphone	✓		DT800, DT900 Series
CHPD/DT9*	Ear defender headset with headband	✓	✓	DT500, DT800, DT900 Series
CHPHS/DT9*	Ear defender headset/hardhat/single sided	✓	✓	DT500, DT800, DT900 Series
CHPHD/DT9*	Ear defender headset/hardhat/double sided	✓	✓	DT500, DT800, DT900 Series
CXR5/DT9**	Bone conductive skull microphone & earpiece	✓	✓	DT500, DT800, DT900 Series
CXR16/DT9**	Bone conductive throat microphone & earpiece	✓	✓	DT500, DT800, DT900 Series
PTT-E/DT9	Heavy duty PTT switch for CHP Series	✓	✓	DT500, DT800, DT900 Series
PTT-C/DT9	Heavy duty PTT switch for CXR Series	✓	✓	DT500, DT800, DT900 Series
EA12/DT9	Earpiece microphone & PTT	✓	✓	DT500, DT800, DT900 Series
FPSCOM5000/DT	Dräger FPS®-COM 5000 communication unit for FPS® 7000	✓	✓	DT500, DT800, DT900 Series
C-C550/DT	Savox Combined remote speaker microphone / push-to -talk	✓	✓	DT500, DT800, DT900 Series
MSA C1	BA Mask Communication module for C-C550	✓	✓	DT500, DT800, DT900 Series

*CHPD/DT9, CHPHS/DT9 and CHPHD/DT9 supplied with PTT-E/DT9
**CXR5/DT9 and CXR16/DT9 supplied with PTT-C/DT9

Specific conditions of use:
The Entel ATEX transceivers should only be used with the specific, permitted accessories, as detailed above.

PREPARING YOUR RADIO FOR USE

Attaching / removing the antenna



1. To attach, carefully align the antenna with the socket. Screw in the antenna clockwise (taking care not to cross the thread) (A).
2. To remove, unscrew the antenna anti-clockwise (B).

Attaching / removing the battery pack

1. To attach, locate the pegs on the bottom of the battery into the slots on the radio and press the top of the battery against the radio. Secure battery by tightening the screw clockwise by hand (do not use any implement or over tighten) (C).
2. To remove, unscrew the locking screw anti-clockwise and pull the battery away from the top of the radio (D).

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SWITCHING ON, RECEPTION AND SWITCHING OFF

1. To switch on rotate the on/off/volume control (1) on the top of the radio clockwise, you will hear a click from the control.
2. When the radio has passed its diagnostic tests, it will emit a fanfare tone.
3. The radio will enter standby mode. This is indicated by the LED flashing amber once every 5 seconds, signaling that the radio is ready for use.
4. Adjust the volume control (1) to select the desired volume level.
5. Using the channel control (2), ensure you have the correct channel selected.
6. When receiving a valid signal, the LED will illuminate steady green and audio will be emitted from the radio's speaker or audio accessory (if attached).
7. When finished using the radio, switch off by turning the on/off/volume control (1) counter clockwise until it clicks and the radio will be switched off.

TRANSMITTING

1. Perform steps 1 through to 5 above.
2. Before transmitting, monitor the channel and make sure it is clear.
3. When receiving a signal, wait until the signal stops before transmitting. The radio cannot transmit and receive simultaneously.
4. Press the Push-To-Talk (PTT) button (4) to begin your transmission. To confirm transmission the LED will illuminate red.
5. For best transmitted speech quality, you must talk directly into the radio's microphone (8) at around 4cm between your mouth and the radio.
6. Please note: if you talk into the top of the radio or with your mouth further away, you will transmit poor quality speech.
7. When the transmission is finished release the PTT button.

EU DECLARATION OF CONFORMITY

Hereby, Entel UK Limited of:
320 Centennial Ave, Centennial Park, Elstree, WD6 3TJ, United Kingdom

Declares that the radio equipment type:
DT542, DT544, DT842, DT844, DT942, DT944
DT582M, DT585M, DT882M, DT885M, DT982M, DT985M
is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

www.entel.co.uk/red

This declaration is valid for Directive 2014/34/EU
EN 301 178 v2.2.2
EN 300 720 v2.1.1
EN 300 113 v2.2.1 & v3.1.1
EN 301 843-1 v2.2.1
EN 301 843-2 v2.2.1
EN 301 489-1 v2.2.3, EN 301 489-5 v2.2.1
EN 60945:2002, EN 62368-1:2020 + A11:2020
EN 50566:2017, EN 62311:2008 & EN 62209-2:2010
DT5xx, DT8xx and DT9xx

IEC 60079-0:2017	EN IEC 60079-0:2018
IEC 60079-11:2011	EN 60079-11:2012

Related certificates:

IECEx:	IECEx BAS 18.0094X
ATEX:	Baseefa18ATEX0152X

DT5xx marking Ex ib IIB T4 Gb (-20°C ≤ Ta ≤ +40°C)
DT8xx marking II 2G Ex ib IIB T4 Gb (-20°C ≤ Ta ≤ +40°C)
DT9xx marking II 2G Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C)

SGS FIMKO OY
Takomotie 8
00380 Helsinki, Finland
Notified Body No. 0598

Quality Assurance Notification:
Intertek Italia SPA
Via Guido Miglioli, 2/A
20063 Cernusco sul Naviglio (MI), Italy
Notified Body No. 2575

Name: Mike Jamieson
Position: Quality Manager
Date: 20th Jan. 2024
Signed:

APPROACHABLE REGISTERED
UKAS MANAGEMENT SYSTEMS
8320

UKCA DECLARATION OF COMFORMITY

Product: DT800/DT900 Series

Manufacturer: Entel Philippines, 112 West Main Ave, Laguna Technopark Annex, Brgy. Binan, Binan City, Laguna 4024, Philippines.

Tel: +63 2 552 5091 Email: info@entel.ph

This declaration of conformity is issued under the sole responsibility of Entel UK Limited. The full text of the UKCA declaration of conformity is available at the following internet address: www.entel.co.uk/UKCA

Entel DT842, DT844, DT942, DT944,DT882M, DT885M, DT982M, DT985M handheld transceiver complies with the requirements of the Radio Equipment Regulations 2017 and as such conforms to the following product specifications and regulations:

Radio Spectrum:
EN 301 178 v2.2.2, EN 300 720 v2.1.1, EN 300 113 v2.2.1 & v3.1.1

Electromagnetic Compatibility Regulations 2016
EN 301 843-1 v2.2.1, EN 301 843-2 v2.2.1, EN 301 489-1 v2.2.3, EN 301 489-5 v2.2.1, EN 60945:2002

Electrical Equipment (Safety) Regulations 2016
EN 62368-1:2020 + A11:2020, EN 50566:2017, EN 62311:2008 & EN 62209-2:2010

The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016
EN IEC 60079-0:2018
EN IEC 60079-11:2012

Related certificate
BAS21UKEX0620X
DT8xx marking II 2G Ex ib IIB T4 Gb (-20°C ≤ Ta ≤ +40°C)
DT9xx marking II 2G Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C)

UKEx Approved Body:
SGS Baseefa Limited, Rockhead Business Park, Staden Lane, Buxton, Derbyshire, SK17 9RZ United Kingdom

Approved body number 1180

UK Quality Assurance Notification
ITS21UKQAN0091

Intertek Testing and Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA

Approved body number 0359

Name: Mike Jamieson
Position: Quality Manager
Date: 20th Jan. 2024
Signed:

The product shall only be put into service after it has been professionally configured by a specialist radio communications dealer for the EU member state or geographical area it is intended to be operated within.

Intended country of use

	AT	BE	BG	CH	CY	CZ	DE	DK	EE
	ES	FI	FR	EL	HR	HU	IE	IS	IT
	LI	LT	LU	LV	MT	NL	NO	PL	PT
	RO	SE	SI	SK	TR	UK(NI)			

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For a detailed specification on all products listed please visit our webpage - entel.co.uk

CONTACT

For more information about our products, please contact us:

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