

Business  
Critical  
Communications

Entel

# DTEX Series

MED Fire Fighter Portables

 MED Approved

 ATEX II 2G Ex ib IIB T4 Gb  
ATEX II 2G Ex ib IIC T4 Gb

 DMR Digital & Analogue mode

 Submersible IP68



0560

**Tough** | CRYSTAL  
CLEAR  
AUDIO

**Submersible  
Dependable**



# DTE<sub>x</sub> Series

## MED Fire Fighter Radios

The industrial grade DTE<sub>x</sub> Fire Fighter Series is designed and approved to meet the latest MED standard implementation regulation MED/5.20 and European ATEX directive.

Available in both VHF and UHF models, the ultra durable fire-red coloured DTE<sub>x</sub> Series sets the benchmark for next-generation MED compliant Firefighter radios. 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 100% reliability and usability even in the most extreme conditions.

### Loudest & Clearest audio - in class

Using the latest noise reduction technology, our DTE<sub>x</sub> portables deliver loud and intelligible audio, essential when working in high ambient noise environments.

### IP68 2 Metres, 4 Hours Submersible

The DTE<sub>x</sub> Series delivers a class leading IP68 2 metres for 4 hours submersible rating, the highest IP rating of any manufacturer. This ensures protection against corrosion and likely hazards encountered in life at sea.

### Intrinsically Safe Approved

**ATEX Approved IIC** - The DT900FF Series of ATEX certified portables meet IIC gas group, the most stringent ATEX rating as per EU Directive 94/9/EC.

**ATEX Approved IIB** - The DT800FF Series of ATEX certified portables meet IIB gas group, the minimum gas group requirement as per MED/5.20 Directive.

### Industrial grade construction

Every aspect of the DTE<sub>x</sub> radios industrial grade design has been meticulously considered, from the high contrast OLED display, readable in all light conditions to the high torque controls to the ultra-tactile front buttons that ensures reliable operation even when using gloved hands.

### 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.

### Benefits of Digital

Aside from crystal clear intelligible audio, there is increased range and battery endurance. DTE<sub>x</sub> also supports analogue mode ensuring backwards compatibility with any existing analogue radios on board.

\*Digital mode is only available on UHF DTE<sub>x</sub> radios.



Informative display shows both the channel number and the frequency



UHF model



## Migrate to Digital Your Way

DTEx 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 duty cycle of the DT900FF radios is more than 18.5 hours from a single charge!

## Dedicated accessories for Fire Fighters

Entel also offers an extensive range of ATEX approved accessories. The most popular for Fire Fighters is the CXR bone conductive throat and skull microphones which eliminate ambient noise, further enhanced by DTEx's speech tailoring technology delivering intelligible communications first time, every time. Also approved is a range of Draeger BA and Savox speaker microphones.

## Simple Onboard Reprogramming App

With our free, unique and simple to use PC app, you can easily re-program a DTEx radios whilst still onboard.

The user friendly app makes it easy to drag and drop a new programming file from an email to your DTEx radio(s).

This is a simple and seamless process that can be carried out by non-technical personnel.



## 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 and protect against corrosion.

To ensure the integrity of IS protection levels and safeguard against non-compliant accessories being used, any accessory connected to the handset automatically undergoes a validation process.

All DTEx accessories incorporate a robust locking connector to further safeguard the user.



## Model List

Model	ATEX Approval	Frequency	Analogue/Digital
DT844FF	IIB	VHF	Analogue
DT944FF	IIC	VHF	Analogue
DT885FF	IIB	UHF	Analogue & Digital
DT985FF	IIC	UHF	Analogue & Digital

## Key Features

- ✓ Industrial 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
- ✓ Supports 3rd party BA kit
- ✓ Audio accessory optimisation

# Technical Specification

General			
Frequency Range	VHF	156 to 163.275MHz	
	UHF	450-470MHz	
Channel Spacing	12.5 & 25KHz		
Operating Voltage	7.4v		
Weight	435g		
Overall Dimensions (HxWxD)	138mm x 60mm x 38mm		
Channels	VHF	INT/USA/CAN mode plus private	
	UHF	up to 256	
Battery Endurance (5/5/90)	Model	Analogue mode	Digital mode
	DT844FF	12 hours	n/a
	DT944FF	14 hours	n/a
	DT885FF	12 hours	17 hours
	DT985FF	14 hours	18.5 hours
Transmitter			
Output Power UHF	ATEX IIC	1 Watt	
	ATEX IIB	2 Watt	
Output Power VHF	ATEX IIC	1 Watt	
	ATEX IIB	3.9 Watt	

Receiver	
Sensitivity (Typical)	Analogue -121dBm (0.2uV) for 12dB SINAD Digital -121dBm (0.2uV) for 5% BER
Environmental	
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	
Humidity	
Shock & Vibration	MIL-STD810 C/D/E/F/G
Packing Test	
Drop Test	
Water Ingress	IP68 2 metres, 4 hours submersible
Approvals	EN 300 720 v2.1.1 EN 300 178 v2.1.1 EN 301 843-1 v2.2.1 EN 301 843-2 v2.2.1 EN 300 113 v2.2.1 EN 60945:2002 EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 EN 50566:2017, EN 62311:2008 & EN 62209-2:2010
NBO 'Certification'	www.entel.co.uk/med
Ex Protection	ATEX II 2G Ex ib IIB T4 Gb ATEX II 2G Ex ib IIC T4 Gb

## Recommended Package

Typical Package 1	Typical Package 2
QTY2 DT Fire Fighter Radios	QTY2 DT Fire Fighter Radios

### Supplied with:

- Li-ion battery pack
- Intelligent charger
- Spring loaded belt clip
- Antenna

### Supplied with:

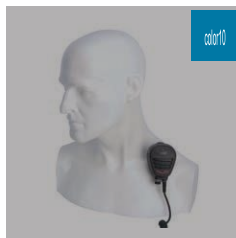
- Li-ion battery pack
- Intelligent charger
- Spring loaded belt clip
- Antenna
- Bone conductive accessory

## Accessories

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



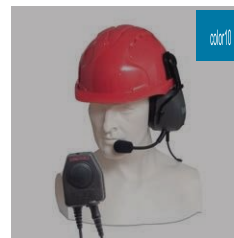
**CSBHT**  
Intelligent six-pod rapid charger



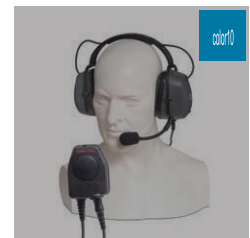
**CMP/DT9** Heavy duty speaker microphone for DT800FF and DT900FF series



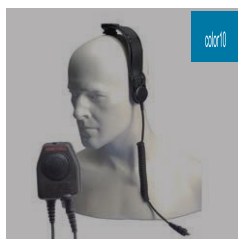
**CLCDT5**  
A heavy duty leather carry case with swivel belt loop and strap



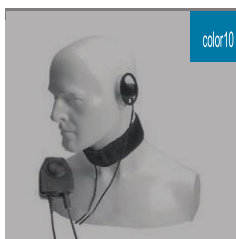
**CHPHS/DT9\***  
Single sided ear defender headset for hard hat use



**CHPD/DT9\***  
Double sided ear defender headset with headband



**CXR5/DT9\***  
Bone conductive skull mic with heavy duty PTT



**CXR16/DT9\***  
Throat mic / earpiece with heavy duty PTT



**3rd Party BA**  
Supports 3rd party BA comms kits

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.

## Contact

For more information about our products, please contact us:  
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