# **TOPCOM**<sup>®</sup> TWINTALKER 9100 LONG RANGE



**User manual** 

v 1.0

This product is in compliance with the essential requirements and other relevant provisions of the R&TTE directive 1999/5/EC. The Declaration of conformity can be found on: http://www.topcom.net/support/cedeclarations.php

**UK** The features described in this manual are published with reservation to modifications.

## **1** Introduction

Thank you for purchasing the Topcom Twintalker. It's a low powered radio communication device that has no running costs other than the minimal cost of re-charging the batteries. The TwinTalker operates on Private Mobile Radio frequencies and can be used in any country where the service is authorised as indicated on the packing box and in this manual.

## 2 Intended purpose

It can be used for different professional as well as for recreational purposes. For example: to keep in contact during travelling with 2 or more cars, biking, skiing. It can be used to keep in contact with your children when they are playing outside, etc...



Restriction: Check the local regulations before using it outside the country where it was purchased. The standard may be prohibited in this country.

## 3 CE Mark and restrictions

The CE symbol on the unit, user guide and giftbox indicates that the unit complies with the essential requirements of the R&TTE directive 1995/5/EC.

The (!) symbol next to the CE mark, indicated that the PMR standard is not allowed in all European countries.

PMR is allowed in the next countries:

Belgium, Holland, Germany, Sweden, Denmark, Norway, Finland, Spain, Italy, Portugal, Greece, Czech, Luxemburg, Hungary, Slovakia, Suisse, France, UK, Ireland, Austria, Poland

## 4 Safety instructions

#### 4.1 General

Please read carefully through the following information concerning safety and proper use. Make yourself familiar with all functions of the device. Keep this manual on a safe place for future use.

#### 4.2 Burning injuries

- If the cover of the antenna is damaged, do not touch because when an antenna comes in contact with the skin, a minor burn may result when transmitting.
- Batteries can cause property damage such as burns if conductive material such as jewellery, keys or beaded chains touches exposed terminals. The material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse or other container with metal objects.

#### 4.3 Personal safety

- Do not place your device in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a communicator is placed in the bag deployment area and the air bag inflates, the communicator may be propelled with great force and cause serious injury to the occupants of the vehicle.
- Keep the radio at least 15 centimetres away from a pacemaker.
- Turn your radio OFF as soon as interference is taking place with medical equipment.
- Do not replace batteries in a potentially explosive atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.
- Turn your communicator off when in any area with a potentially explosive atmosphere. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.
- Never throw batteries in fire as they may explode.



Areas with potentially explosive atmospheres are often, but not always, clearly marked. They include fuelling areas such as below deck on boats, fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

#### 4.4 Poisoning danger

• Keep batteries away from small children

#### 4.5 Legal

- In some countries it is prohibited to use your PMR while driving a vehicle. In this case leave the road before using the device.
- Turn your unit OFF when on board an aircraft when instructed to do so. Any use of the unit must be in accordance with airline regulations or crew instructions.
- Turn your unit OFF in any facilities where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.
- Replacing or modifying the antenna may affect the PMR radio specifications and violate the CE regulations. Unauthorised antennas could also damage the radio.

#### 4.6 Notes

- Do not touch the antenna while transmitting, it could affect the range.
- Remove the battery if the device is not going to be used for a long period.

## 5 Cleaning and maintenance

- To clean the unit, wipe with a soft cloth dampened with water. Don't use a cleaner or solvents on the unit; they can damage the case and leak inside, causing permanent damage.
- Battery contacts may be wiped with a dry lint-free cloth.
- If the unit gets wet, turn it off and remove the batteries immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the cover off the battery compartment overnight or until completely dry. Do not use the unit until completely dry.

## 6 Disposal of the device



At the end of the product lifecycle, you should not throw this product into the normal household garbage but bring the product to a collection point for the recycling of electrical and electronic equipments. The symbol on the product, user guide and/or box indicate this.

Some of the product materials can be re-used if you bring them to a recycling point. By re-using some parts or raw materials from used products you make an important contribution to the protection of the environment.

Please contact your local authorities in case you need more information on the collection points in your area.

## 7 Using a PMR device

To communicate between PMR devices they need to be set all on the same channel and within receiving range (up to max. 9 km in open field). Since these devices use free frequency bands (channels), all devices in operation share these channels(total 8 channels). Therefore, privacy is not garanteed. Anybody with a PMR set to your channel can overhear the conversation. If you want to communicate (transmitting a voice signal) you need to press the PTT -button.

Once this button pressed, the device will go into transmit mode and you can speak into the microphone. All other PMR devices in range, on the same channel and in standby mode (not transmitting) will hear your message. You need to wait until the other party stops transmitting before you can reply to the message. At the end of each transmission the unit will send a beep. To reply, just press the PTT-button and speak into the microphone.

If 2 or more users press the (PTT) - button at the same time the receiver will receive only the stongest signal and the other signal (s) will be supressed. Therefore you should only transmit a signal (press (PTT) - button) when the channel is free.

ENGLISH

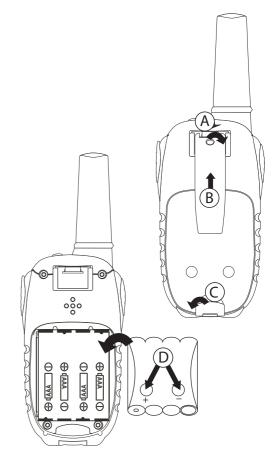
## 8 Getting started

#### 8.1 Removing/Installing the Belt Clip

- 1. To remove the clip from the unit, push the belt clip (B) towards the antenna, while pulling the clip tab (A).
- 2. When re-installing the belt clip, a click indicates the belt clip is locked into position.

#### 8.2 Battery Installation

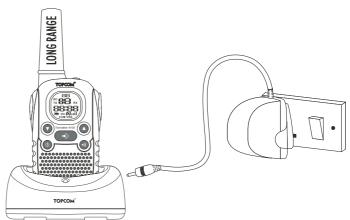
- 1. Remove the belt clip (§ 8.1).
- 2. Open the locking latch (C) and slide off the battery cover.
- 3. Install the rechargeable battery pack following the polarity as shown. Ensure that the metal contacts on the side (D) are facing outwards from the radio to connect on the battery door.
- 4. Re-install the Battery Cover and Belt Clip (§ 8.1).



## 9 Charging batteries

When battery packs are installed, the desktop charger provides drop-in charging conveniency

- 1. Put the desktop charger on a flat surface.
- 2. Plug one end of the supplied adapter into the electric socket and the other end into the connector on the backside of the desktop charger.
- 3. Put the radio in the charger as indicated.
- 4. The charging LED will turn on if it's properly inserted and charging.

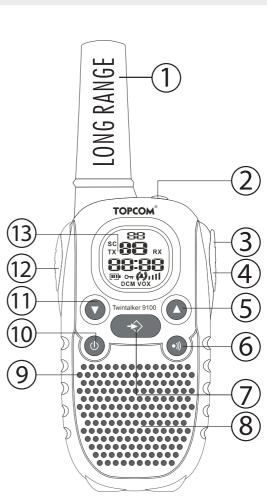


It will take about 8 to 10 hours to fully charge the batteries

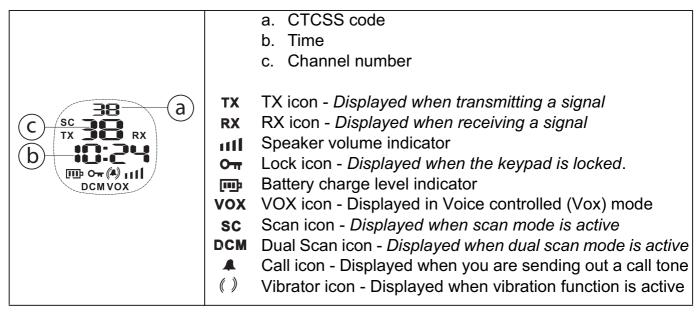
Do not short-circuit & dispose of in fire. Remove the batteries if this device is not going to be used for a long period.

#### 10 Buttons

- 1. ANTENNA
- 2. PANIC button
- 3. EARPIECE Connector
- 4. Car charger connector
- 5. UP button (
  - Increase the speaker volume
  - Select the next item in the menu
- 6. CALL button 🕥
  - Transmit a call tone
- 7. MENU button 🛞
  - Enter menu
- 8. SPEAKER.
- 9. MICROPHONE
- 10. ON/OFF button (b)
- 11. DOWN button 🖲
  - Decrease the speaker volume
  - Select the previous item in the menu.
- 12. PUSH TO TALK button PTT
  - Press To Talk or release to listen
  - Confirm a setting in the menu
- 13. LCD Display



## **11 LCD Display information**



## 12 Battery Charge Level/Low Battery Indication

The BATTERY CHARGE LEVEL is indicated by the number of squares present inside the BATTERY icon on the LCD Screen.



Battery Full

Battery 2/3 charged

**⊡** Battery 1/3 charged

☐ Battery empty

When the BATTERY CHARGE LEVEL is low, the BATTERY icon will flash to indicate that the batteries need to be replaced or recharged.

## 13 Using the Twintalker 9100

#### 13.1 Clock functions

When the battery is installed and the unit is OFF, the time is displayed.

#### 13.1.1 Setting the time

In power OFF mode:



- Press and hold for 5 seconds, the hour flashes.
- Press ( ) or ( ) to change the hour.
- Press 🛞 to confirm, the minutes flashes.
- Press ( ) or ( ) to change the minutes.
- Press and hold for 5 seconds to confirm the setting

#### The time will be reset to 12:00 when the battery is removed.

#### 13.1.2 Stopwatch

- Press and hold (1) for 3 seconds to enter stopwatch mode
- Press ( ) to stop counting
- Press 文 to reset the timer
- Press and hold (1) for 3 seconds to exit stopwatch mode

#### 13.2 Turning the Unit ON/OFF

- To activate; press and hold (1). The unit will "beep" and the LCD Screen will display the current channel, CTCSS code and time.
- To switch off; press and hold (1) again. The unit will "beep" and only the time is displayed.

#### 13.3 Adjusting Speaker Volume



The Speaker Volume can be adjusted using  $\checkmark$  and  $\bigtriangledown$  . The Speaker Volume level is displayed on the LCD.

#### 13.4 Receiving a Signal



The unit is continuously in the RECEIVE mode when the unit is ON and not transmitting. When you receive a signal on the current channel, the RX icon is displayed.

In order for other people to receive your transmission, they must be set on the same channel and CTCSS code

#### 13.5 Transmitting a Signal



- Press and hold PTT to TRANSMIT.
- Hold the unit in a vertical position with the MICROPHONE 10 cm from the mouth and speak into the microphone.
- Release PTT when you have finished transmitting.

#### 13.6 Changing Channels

The PMR has 8 available channels.

To change channels:

H R



- Press ( ) or ( ) to change the channel.
- Press (PTT) to confirm your selection and return to the NORMAL mode.
- To confirm and shift to the next option, press 🛞.

NOTE: Any PMR set on the same channel can receive and listen to the conversation, also when the other use a CTCSS code.

#### 13.7 CTCSS (Continuous Tone Coded Squelch System)

The 2 digit CTCSS code corresponds to a specific tone frequency the radio emits. Two users, with the same channel and CTCSS set can hear one another. They will not be able to hear anyone else on the channel unless the other radios have the same exact CTCSS code enabled.

The PMR has 38 CTCSS codes available.

38	
	<ul> <li>Press    <ul> <li></li></ul></li></ul>
	• Press m to confirm your selection and return to the NORMAL mode.
	• To confirm and shift to the next option, press $$

## NOTE: Any PMR set on the same channel can receive and listen to the conversation, also when the other use a CTCSS code.

#### 13.8 Monitor

You can use the MONITOR feature to check for weaker signals in the current channel.

- Press ⊕ and ♥ simultaneous to activate channel monitoring. Hold these buttons for 3 seconds for contiuous monitoring.
- Press (PTT) to stop monitoring

#### 13.9 VOX Selection

The PMR is capable of voice activated (VOX) transmission. In VOX mode, the radio will transmit a signal when it is activated by your voice or other sound around you. VOX operation is not recommended If you plan to use your radio in a noisy or windy environment.



- Press 🛞 3 times.
- Press to turn the VOX feature ON and press again to select the VOX sensitivity level which is indicated in the right corner of the display.
   Press until OF appears on the display, to turn VOX OFF.
- In the VOX mode, the VOX icon will be displayed.
- To confirm your selection and return to the NORMAL mode, press  $\textcircled{\text{PT}}$  .

#### 13.10 Channel Scan

CHANNEL SCAN performs searches for active signals in an endless loop from channel 1 to 8.

- Press and hold 🛞 . Press 🌰 briefly to start scanning.
- 88 TX 888 RX 888-888 RID Or (A) rtfl DCMVOX
- Release the buttons.
- When an active signal (one of 8 channels) is detected, CHANNEL SCAN pauses and you will hear the active signal.
- Press (PTT) to communicate through the active signal channel. Press (\*) to deactivate channel scan.

When an active signal (one of 8 channels) is detected, press  $\checkmark$  or  $\bigcirc$  to bypass the current channel and continue to search for another active channel

#### 13.11 Call Tones

A call tone alerts others that you want to talk.

#### a. Setting the Call Tone



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()

- 5 different Call Tones can be selected.
- Press 🛞 4 times. CA will be displayed.
- Press ( ) or ( ) to select another call tone or select OF to enable call tones.
- Press (PTT) to confirm your selection and return to the standby mode.

#### b. Sending a call Tone

Press (1) briefly. The call tone will be transmitted for 3 seconds on the set channel.

#### **13.12 Vibrator function**

When receiving a call tone, the Twintalker 9100 can also vibrate. To set the Roger Beep.

- Press 🛞 5 times. '(( )' will be displayed.
- Press ( to enable (ON) or ( disable (OF) the Vibrator .
- Press (PTT) to confirm your selection and return to the standby mode.

#### 13.13 Roger Beep On/Off

After the err - button is released, the unit will send out a roger beep to confirm that you have stopped talking.



- To set the Roger Beep.
- Press 🛞 6 times. 'ro' will be displayed.
- Press ( to enable (ON) or ( disable the Roger-Beep (OF).
- Press (PTT) to confirm your selection and return to the standby mode.

#### 13.14 Key-Tone On/Off

When a button is pressed, the unit will beep briefly.

1	88	
(SC TX	88	RX
	ро <del>н</del> ( <b>4</b> )	

To set the key-tone.

- Press 🛞 7 times. 'to' will be displayed.
- Press ( to enable (ON) or ( disable the key Tones (OF).
- Press  $\bigcirc$  to confirm your selection and return to the standby mode.

#### **13.15 Dual Channel Monitor function**

In stand-by, the PMR is set on one set channel with CTCSS code. The PMR will only receive signals transmitted on that channel and CTCSS code.

Dual Channel Monitor allows you to monitor a second channel with CTCSS code.



- Press 🛞 8 times, DCM OFF appears on the display.
- Press ( ) or ( ) to change the channel.
- Press ( ) or ( ) to change the CTCSS.



• Press (PTT) to confirm.

To disable the function select 'OFF' when setting the channel.

When the Dual Channel Monitor function is activated, the PMR will switch sequentially between the standby channel + CTCSS and the Dual Channel + CTCSS.

#### 13.16 Button Lock



- Press and hold 
  for 5 seconds to activate or deactivate the BUTTON LOCK mode. The BUTTON LOCK icon is displayed on the LCD Screen.
- Press and hold 🛞 again to deactivate BUTTON LOCK

#### **13.17 Headset connection**

The Twintalker 9100 can be used with an optional external microphone and speaker. The connector is located under the protective rubber cover on the right side of the unit. To attach the external speaker/microphone headsets or earpiece, lift the rubber flap on the top of the unit to expose the connector.

Insert the appropriate plug into the connector.

#### 13.18 Panic button

Press the Panic button (2) on top of the unit in case of emergency. A very high alert tone will be audible.

#### 13.19 Car Charger

When using the enclosed rechargeable battery pack you can use the enclosed car-charger (12V DC / 200mA) to charge.

• Plug the small plug of the adapter into the Car charger connector (3) and the other end in the car cigarette plug.

#### NOTE: It takes approximately 7 to 10 hours to fully charge the batteries.

Do not charge this unit when regular "AAA" alkaline batteries are installed.

Only use the included car charger. Using another charger will result in non-compliancy the safety regulation and will invalidate any approval/ warranty for this product.

## **14 Technical specifications**

PMR	
Channels	8
CTCSS	38
Frequency	446.00625MHz - 446.09375 MHz
Range	Up to <mark>9</mark> Km (Open field)
Batteries PMR	3 x AAA Alkaline or NiMh rechargeable battery
	pack
Transmission Power	=< 500mW ERP
Modulation Type	FM - F3E
Channel spacing	12,5 Khz

Channel F	requency Chart:	CTCSS Co	ode Chart						
Channel	Frequency (MHz)	Code	Frequency (Hz)	Code	Freq. (Hz)	Code	Freq. (Hz)	Code	Freq. (Hz)
1	446,00625	0	Disabled	10	94,8	20	131,8	30	186,2
2	446,01875	1	67,0	11	97,4	21	136,5	31	192,8
3	446,03125	2	71,9	12	100,0	22	141,3	32	203,5
4	446,04375	3	74,4	13	103,5	23	146,2	33	210,7
5	446,05625	4	77,0	14	107,2	24	151,4	34	218,1
6	446,06875	5	79,7	15	110,9	25	156,7	35	225,7
7	446,08125	6	82,5	16	114,8	26	162,2	36	233,6
8	446,09375	7	85,4	17	118,8	27	167,9	37	241,8
		8	88,5	18	123,0	28	173,8	38	250,3
		9	91,5	19	127,3	29	179,9		

## 15 Warranty

#### 15.1 Warranty period

Topcom units have a 24 - month warranty period. The warranty period starts on the day the new unit is purchased. Consumables or defects causing a negligible effect on operation or value of the equipment are not covered.

The warranty has to be proven by presentation of a copy of the original purchase receipt, on which the date of purchase and the unit-model are indicated.

#### 15.2 Warranty handling

A faulty unit needs to be returned to an authorized service centre including a valid purchase note. If the unit develops a fault during the warranty period, the service centre will repair any defects caused by material or manufacturing faults free of charge.

The service centre will at its discretion fulfil its warranty obligations by either repairing or exchanging the faulty units or parts of the faulty units. In case of replacement, colour and model can be different from the original purchased unit.

The initial purchase date shall determine the start of the warranty period. The warranty period is not extended if the unit is exchanged or repaired by the appointed service centres.

#### 15.3 Warranty exclusions

Damage or defects caused by incorrect treatment or operation and damage resulting from use of non-original parts or accessories are not covered by the warranty.

The warranty does not cover damage caused by outside factors, such as lightning, water and fire, nor any damage caused during transportation.

No warranty can be claimed if the serial number on the unit has been changed, removed or rendered illegal.

The CE symbol indicates that the unit complies with the essential requirements of the R&TTE directive.

<u>SERVICE RETURN CARD - RÜCKSENDEKARTE -</u>
CARTE DE RETOUR SERVICE - RETOURFICHE
RETURN WITH YOUR DEFECT PRODUCT
Name/Vorname/Prénom/Naam:
Surname/Familienname/Nom/Familienaam:
Street/Straße/Rue/Straat:

Nr./N°:	Box/Postfach/Boîte/Postbus:
Location/Ort./Lieu/Plaats:	Post code/Postleitzahl/Code Postal/Postcode:
Country/Land/Pays/Land:	
Tel./Tél.:	
E-mail:	
Model name/Modellbezeichn	ung/Nom du modèle/Modelnaam:
Serial Nr/Seriennummer/N° s	érie/Serienummer:
Purchase date/Kaufdatum/Da	ate d'achat/Aankoopdatum:
	//MM/YYYY) - (TT/MM/JJJJ)
	ng des Defekts/Description de la panne/Beschrijving de

Model name/Modellbezeichnung/Nom du modèle/Modelnaam:

Serial Nr/Seriennummer/N° série/Serienummer:

Purchase date/Kaufdatum/Date d'achat/Aankoopdatum:

DD/MM/YYYY) - (TT/MM/JJJJ)

Fault description/Beschreibung des Defekts/Description de la panne/Beschrijving defect:

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## **TOPCOM**<sup>®</sup> TWINTALKER 9100 LONG RANGE

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