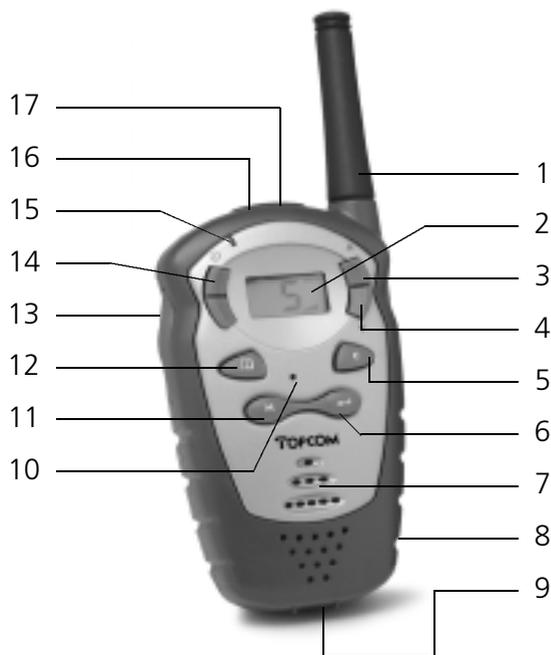


TOPCOM® TwinTalker 2000

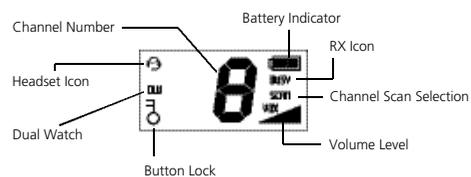
USER GUIDE



1. BUTTONS/LED

1. Antenna
2. LCD Screen: Displays current channel selection and other radio status symbols.
3. Up key ▲ (VOLUME/CHANNEL): Press to adjust volume level and change channels.
4. Down key ▼ (VOLUME/CHANNEL): Press to adjust volume level and change channels.
5. Call key 'C': Press to transmit call tones.
6. Enter key: Used to turn LCD Screen lamp ON/OFF keys are locked when pressed and held.
7. Speaker
8. Battery compartment (located at the rear): houses 4 x "AAA" alkaline or Ni-MH rechargeable batteries (not included).
9. Battery compartment cover latch (located at the rear): Secures Battery Compartment cover.
10. Mic: Microphone.
11. Monitor 'M' key: Press to tune in and hold onto weak signals.
12. Menu key [M]: Allows you to change channels.
13. PTT key (Push to Talk): Press to transmit.
14. Power On/Off key: Press and hold the button to switch your unit ON/OFF.
15. TX (Transmission) LED indicator: Red light shows when transmitting.
16. Sp. /Mic. / Battery charge jack
17. Belt clip (located at the rear)

2. DISPLAY



Vox: Displayed when vox mode is ON

The channel changes from 1 to 8, or from 8 to 1.

- Press the Enter button to confirm the selected channel and return to normal mode.
- Channel change operations are disabled during KEY LOCK mode.

NOTE: Refer to the "Channel Table" section of this owner manual for detailed frequency listings.

CHANNEL TABLE	
CHANNEL NUMBER	FREQUENCY (MHz)
1	441.0025
2	441.0175
3	441.0325
4	441.0475
5	441.0625
6	441.0775
7	441.0925
8	441.1075

4.7 Monitor

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

- Press the Monitor button 'M' for activating or deactivating.

4.8 Enter / Back-light / Key lock

- Press and immediately release the Enter button to light up the LCD Screen. The backlight will automatically shut off after 4 seconds if no other keys are pressed.
- Press and hold the Enter key until the KEY LOCK icon is displayed on the LCD screen.

NOTE: Volume and channel change operations are disabled when in KEY LOCK mode.

- Press and hold the ENTER key down again to deactivate KEY LOCK mode.

3. INSTALLATION

3.1 Batteries

- Release the battery compartment cover latch located at the rear of the unit and remove the battery compartment cover from the compartment.
- Install 4 x 1.5V AAA alkaline batteries or Ni-MH rechargeable batteries.
- Reinstall the battery compartment cover and lock the battery compartment cover latch in position.

The receiver has a built-in Power Save feature for maximum battery life. But when the communicator is not being used, conserve battery power by pressing the On/Off key to Off. Remove the batteries if the unit will be out of use for long periods.

3.2 Belt clip

3.2.1. Removing the belt clip

- Release the lock of the belt clip latch on the top and pull it away from the unit.
- While pulling the belt clip catch, push up on the belt clip to remove it from the unit.

3.2.2 Installing the belt clip

- Slide the belt clip into the belt-clip slot.
- A click indicates the belt clip is locked in position.

4. OPERATION

4.1 Switching the unit ON

Press and hold the On/Off key down. The unit will beep with a dual tone.

4.2 Switching the unit OFF

Press and hold the On/Off key. The unit will beep with a single tone and the LCD screen will turn blank.

4.3 Adjusting speaker volume

- Press the Up key ▲ to increase speaker Volume.
- Press the Down key ▼ to reduce speaker Volume.
- Speaker volume level is indicated by the number of bars displayed in the lower right corner of the LCD screen.

NOTE: Volume Up ▲ and Down ▼ keys are disabled during BUTTON LOCK mode

4.4 Receiving a signal

The unit is continuously in RECEIVE mode when the unit is ON and not transmitting. When you receive a signal on the current channel, the RX icon (BUSY) is displayed. (See "LCD SCREEN" for details).

4.5 Transmitting a signal

- Check channel activity by pressing and holding the MONITOR key 'M'. You'll hear static if the channel is unoccupied. Don't transmit if someone is talking on the channel. Press and hold the PTT key to transmit. The TX LED indicator will show red. Hold the unit in a vertical position with the microphone 5 cm from the mouth.
- While holding the PTT key down, speak into the unit using a normal tone of voice.
- Release the PTT key when you have finished transmitting.

NOTE: For other people to receive your transmission, they must also be on the same channel you are currently using. Refer to the "Changing Channels" section for more information.

4.6 Changing channels

The receiver has 8 channels. To change channels:

- Press the Menu key [M] until the current channel number flashes up on the LCD screen.

While the channel number is flashing:

- Press the Up key ▲ to move to a higher channel.
- Press the Down key ▼ to move to a lower channel.

4.9 Channel scan

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

- Press Menu key [M] twice and Up key ▲ or Down key ▼ to activate CHANNEL SCAN. The channel number on the LCD screen changes rapidly until an active signal is detected.
- During CHANNEL SCAN mode.
- Press Enter key or PTT key to confirm the selected channel.
- Press the CALL key 'C' to change to CALL function and send a call tone on that active channel.
- Press the Menu key [M] 4 times to deactivate CHANNEL SCAN mode.
- When an active signal (one of 8 channels) is detected. CHANNEL SCAN pauses, keeping the active signal broadcast.
- Press the PTT key to communicate through the active signal channel and CHANNEL SCAN is deactivated.
- If an active signal (one of 8 channels) is detected but you want a different channel, press the Monitor key 'M' twice to by-pass the current channel and continue searching for another active channel.

4.10 Sending call tones

You can use call tones to alert the other person when you are attempting to contact them. You can also use call tones to signal the beginning or end of a transmission.

- Press the Call key 'C'; the red TX LED indicator will show and CALL TONE continues for 3 seconds.

4.11 Battery level indicator

1. The battery level is indicated by the number of squares present inside the Battery icon on the LCD Screen.
2. When the battery level is low, the Battery icon will flash to indicate the batteries need to be replaced.

3. Do not charge this unit using an AC/DC adaptor with regular "AAA" alkaline batteries installed. Only use optional AC/DC adaptor with "AAA" Ni-MH rechargeable batteries (not included).

Note: Ensure the unit is switched off when in battery charge mode.

4.12 To charge the receiver (optional)

Should you wish to use the unit with rechargeable batteries (not Included) you will be required to use an AC/DC adaptor - Input 230 VAC 50 Hz - Output 6 VDC 100Ma (not included).

- Insert 4 "AAA" NI-MH rechargeable batteries (not included)
- Switch the unit OFF
- Plug the adaptor into the wall and insert the round end into the charge jack marked CHG on the top of the receiver.

Note: It takes approximately 6 hours to charge the batteries fully if they are at their lowest level, and around 14 hours to charge new batteries fully.

4.13 To enter Dual Watch mode (2 channel monitor).

- Press Menu key  3 times.
- Press Up key  or Down key  to select the desired second channel.
- The unit will scan between the 2 channels, which are shown on the display.
- Press Enter, PTT or Call button 'C' to exit Dual Watch mode.

4.14 VOX control function

In VOX mode, you can transmit and receive signals without pushing the ptt button. It will start transmitting when you start speaking.

4.14.1. To switch on the VOX function

- Press Menu button  4 times to enter VOX mode;
- While the VOX icon is flashing -
- Press Up key  to select higher VOX sensitivity;
- Press Down key  to select lower VOX sensitivity;
- Press Menu key  twice to confirm the selected mode.

Note:

1. VOX sensitivity is indicated by the number of bars displayed at the lower right corner of the LCD Screen.

2. You can press the Enter key twice to stop transmitting for 4 seconds and adjust the VOX sensitivity to a lower level if the surroundings are too noisy, causing continuous transmitting.

4.14.2. To turn off the VOX function

- While the VOX icon is flashing, press the Down key  until the bars disappear.
- Press the Menu key  twice to confirm VOX off mode.

4.15 Second counter function

Use this to count from 0 to 99 seconds.

4.15.1. To enter second-counter mode

- Press Menu key  5 times to enter second-counter mode.
- While the second counter meter is flashing:
- Press Up key  to run second counter continuously;
- Press Down key  to pause the second counter.
- Press Menu key  to confirm the second counter and return to the original default channel automatically;
- If an active signal is detected while in second-counter mode, the unit will return to RECEIVE mode automatically;

4.15.2. To reset the second-counter meter

Enter second-counter mode and while it is flashing, press 2 times the Enter key to reset the second counter to 00 status and press the Menu key  to confirm.

7. CARE AND MAINTENANCE

To clean the unit, wipe with a soft cloth moistened with water. Don't use a cleaner or solvents on the unit; they can harm the case and leak inside, causing permanent damage. Battery contacts may be wiped with a dry lint-free cloth.

If the unit gets wet, switch it off and remove the batteries immediately. Dry the battery compartment with a soft cloth to minimise potential water damage. Leave the cover off the battery compartment overnight or until completely dry. Do not use the unit until completely dry. To ensure optimal unit performance, the following operating procedures should be observed:

7.1 For Portable Two-way Communicators

When transmitting with a communicator, hold the communicator in a vertical position with its microphone 2.5 to 5.0 cm away from your mouth. Keep the antenna at least 2.5 cm from your head and body. If you wear a communicator on your body, ensure that the antenna is at least one 2.5 cm from your body when transmitting.

7.2 Electromagnetic Interference/Compatibility

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility. 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. Turn your unit OFF when on board an aircraft when instructed to do so. Any use of the unit must be accordance with airline regulations or crew instructions.

5. TOPCOM WARRANTY

- This equipment comes with a 24-month warranty. The warranty will be honoured on presentation of the original bill or receipt, provided the date of purchase and the unit type are indicated.
- During the time of the warranty Topcom will repair free of charge any defects caused by material or manufacturing faults. Topcom will at its own discretion fulfil its warranty obligations by either repairing or exchanging the faulty equipment.
- Any warranty claims will be invalidated as a result of intervention by the buyer or unqualified third parties.
- Damage caused by inexpert treatment or operation, and damage resulting from the use of non-original parts or accessories not recommended by Topcom is not covered by the warranty.
- The warranty does not cover damage caused by outside factors, such as lightning, water and fire, nor does it apply if the unit numbers on the equipment have been changed, removed or rendered illegible.

Note: Please do not forget to enclose your receipt if you return the equipment.

6. SAFETY INSTRUCTIONS

6.1 Damaged antenna

Do not use any receiver that has a damaged antenna. If a damaged antenna comes in contact with the skin, a minor burn may result.

6.2 Batteries

As batteries can cause property damage and/or bodily injury such as burns if conducting material such as jewellery, keys or beaded chains touches exposed terminals. The conductor may complete an electric 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.

DECLARATION OF CONFORMITY

We, TTS Nv, Grauwmeer 17, 3001 Heverlee, Belgium, declare that our product :

Product name: TOPCOM

Model type: Twintalker 2000

is in conformity with the essential requirements of the R&TTE directive 1999/5/EC and carries the CE mark accordingly.

Supplementary information:

The product complies with the requirements of:

- Low Voltage Directive 73/23/EEC
- EMC Directive 89/336/EEC
- EMC EN 300 279 : 1999
- ETSI EN 300 296-1 V1.1.1 (2001-03)
- ETSI EN 300 296-2 V1.1.1 (2001-03)
- EN 60065 : 1998

Date: 25/02/2002.

Place: Heverlee, Belgium

Name: Verheyden Geert

Function: Technical Director

Signature: 

European contact: TTS Nv, R&D department, Research Park, Grauwmeer 17, 3001 Heverlee, Belgium. Tel : +32 16 398920, Fax : +32 16 398939