

**Cobra**<sup>®</sup>  
**microTALK**

Owner's Manual



**Cobra**<sup>®</sup>  
PU500 Owner's Manual

TWO-WAY RADIO MODEL  
**PU500**

Printed in China  
Part No. KEM-ML41902-01  
English

Nothing Comes Close to a Cobra<sup>®</sup>

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Before operating the radio, please read all safety and operating instructions. Save all instructions in a safe place for future reference.

### **⚠ WARNING: Important Safety Instructions**

1. Only accessories included in this package or specified by the manufacturer should be used with the radio. The 5V micro-USB charging input is compatible with most high quality micro-USB chargers that fully conform to the USB standards.
2. Do not use cleaners or solvents to clean the exterior of the radio. Use only a damp or dry cloth.
3. Do not expose this product to splashing or dripping water.
4. Do not attempt to service the receiver yourself. Removing the cover will void the warranty. Changes or modifications not expressly approved by Cobra may void the user's authority granted by the FCC to operate this device and should not be made.
5. Do not plug the wall adaptor into the power outlet if the outlet is wet.
6. Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

### **⚠ WARNING: Important Safety Instructions for Battery** **Read All Instructions**

- Do not incinerate the battery even if it is severely damaged or is completely worn out.
- Do not discard battery in a fire. The battery pack can explode in a fire.
- Do not replace battery in any area labeled "Hazardous Atmosphere". Any sparks created in a potentially explosive atmosphere can cause an explosion or fire.
- Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.
- Do not dry a wet or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.
- A small leakage of liquid from the battery cells may occur under extreme usage or temperature conditions. This does not indicate a failure. Do not open, deform or mutilate the battery as there may be corrosive materials which can cause damage to eyes or skin and may be toxic if swallowed.

However, if the outer seal is broken and this leakage gets on your skin:

- a. Wash quickly with soap and water.
- b. Neutralize with a mild acid such as lemon juice or vinegar.
- c. If battery liquid gets into your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention.

This product uses Lithium Polymer Battery. Do not transport package if damaged, a fire hazard could exist.

#### **Recycle Battery**

Disposing of this battery correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your dealer or supplier for recycling advice.

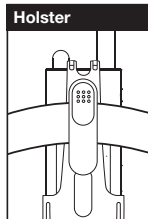


## Introduction

### Making Life Easier and Safer

Staying in touch is convenient and easy when using your microTALK® radio. Some of the many uses you will discover include:

Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions; connecting with neighbors; arranging meeting spots with others while shopping at the mall, talking with your colleagues in store or warehouse.



#### **Secure your microTALK® radio while on the go.**

Carrying your microTALK® radio with you is easy when using the holster.

The holster easily attaches to your belt, purse, or backpack.



## Operational Cautions

Exposure to high volume sound levels may cause temporary or permanent damage to your hearing. Although there is no single volume setting that is appropriate for everyone, you should always use your radio with the volume set at low level and avoid prolonged exposure to high volume sound levels.

1. Set the volume control in a low position and use as low a volume as possible.
2. Avoid turning up the volume to block out noisy surroundings. Whenever possible, use your radio in a quiet environment with low background noise.
3. Limit the amount of time you use headsets or earpiece at high volume levels.
4. When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.
5. Observe all signs and instructions that require an electrical device or RF radio product to be switched off in designated areas, such as gas/refueling stations, hospitals, blasting areas, potentially explosive atmospheres, or aircraft.
6. If you experience a skin irritation after using this product, discontinue use and seek medical attention.
7. If the product or charger: overheats; has a damaged cord or plug; has been dropped or damaged; has been dropped into water, disconnect any charger from its power supply, discontinue use of the product.

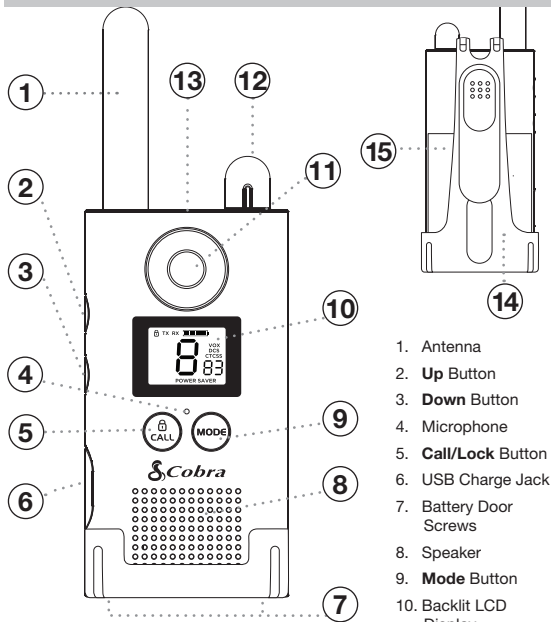
## Electromagnetic Interference

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility. Turn off your radio in any facility where posted notices instruct you to do so. These facilities may include hospitals or health care facilities that may be using equipment that is sensitive to external RF energy.

- When instructed to do so, turn off your radios when on board an aircraft. Any use of a RF device must be in accordance with applicable laws, regulations and airline crew instructions.
- Some radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer or physician to discuss alternatives.
- If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your doctor or physician may be able to assist you in obtaining this information.



## Product Features



1. Antenna
2. **Up** Button
3. **Down** Button
4. Microphone
5. **Call/Lock** Button
6. USB Charge Jack
7. Battery Door Screws
8. Speaker
9. **Mode** Button
10. Backlit LCD Display
11. **Talk** Button
12. Power On/Off/Volume Knob
13. External Speaker / Microphone Jack
14. Holster with 360° Swivel Clip
15. Battery compartment

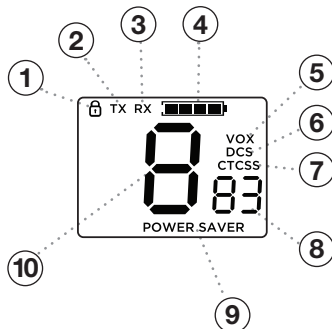


8 PMR Channels. User expandable to 16 Channels in countries where allowed by government authorities.



Maximum/Minimum Operating Range: -20C to +45C.  
 Maximum SAR values: 0.264W/kg for FM 12.5KHz  
 Frequency Band: 446MHz.  
 Average and maximum radio-frequency power: 162mW.

## Backlit LCD Display



### Features

- 16 Channels (1-8/ 1-16\*)
- 121 Privacy Codes (38 CTCSS codes/ 83 DCS codes)
- Hands-Free Operation (VOX)
- Backlit LCD Display
- Call Alert
- Button Lock
- Speaker/ Microphone/ Charge Jack
- Roger Beep
- Battery/Power Saver
- Keystroke Tones
- Battery Level Indicator
- Low Battery Audible Alert
- Auto Squelch
- Holster

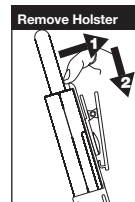
1. Lock Icon
2. Transmit Icon
3. Receive Icon
4. Battery Level Indicator
5. VOX Icon
6. DCS Icon
7. CTCSS Icon
8. DCS / CTCSS Privacy Code Numbers
9. Power Saver Icon
10. Channel Numbers

Note: \* Only Channels 1 to 8 are available by default. Channels 9 to 16 need to be activated by user before they can be selected.  
Channels 9 to 16 should only be used in countries where these frequencies are allowed by government authorities.

## Caring for Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

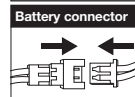
## Installing Batteries



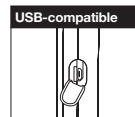
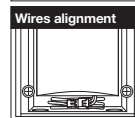
1. Remove Holster by releasing the belt clip latch and slide the holster downward.
2. Unscrew 2 screws at bottom with a proper screwdriver, then open the battery compartment cover. Connect the connector of the battery to the socket of the radio inside the battery compartment.
3. Place the battery inside the battery compartment and align the wire as shown.



- (Make sure the wire does not block the screw holes)
4. Replace the battery compartment cover, screw down the screws mildly.
- (Screw nuts may be damaged if applying too strong force when tightening)



5. Re-attach the holster



### To charge batteries in radio:

1. Check to see that the batteries have been inserted properly.
2. Insert the cable into the charge jack located at the left side of the radio.

3. Plug the cable into USB-compatible power port.

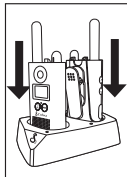
Only use the supplied rechargeable batteries and desktop charger for recharging your Cobra microTALK® radio.

Cobra recommends your radio is turned off while being charged.



## Operation

### Using Your Radio



#### For charging microTALK® radio(s) in desktop charger:

1. Insert radio(s) into desktop charger as shown.
2. Insert the micro-USB cable into jack on back of charger.
3. Plug the cable into USB compatible power port.

For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

If charging light is not **on**, check position of radio. Radio should be upright. The charge indicator light will stay **on** as long as the radio is in the charging mode, and the light will go **off** when the charging is complete.

**Note:** To charge a single radio, you can bypass the desktop charger and simply insert the micro-USB's connector directly into the charge jack located on the left side of the radio.

The radio will display flashing battery icon while charging.

Cobra recommends your radio be turned **off** while being charged.



### Quick Start


1. Turn On/Off VOL Knob clockwise to turn the radio on and counter clockwise to turn the radio off.
2. Select a desired channel.



Both radios must be tuned to the same channel/privacy code to communicate.

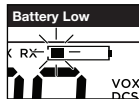
3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

### Turning on Your microTALK® Radio

Turn  clockwise to turn the radio on and counterclockwise to turn the radio off.

1. In the ON position, the radio chirps and briefly shows all feature icons available on the radio.
2. The display screen then shows the current channel, code and all features that are enabled.

### Battery Low

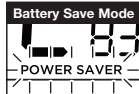


When battery power is low, the final bar in the **Battery Low** icon will blink and an audible tone will sound twice before the radio shuts off. Your batteries need to be recharged.



The radio will display flashing battery icon while charging if the radio is on.

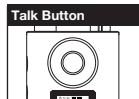
### Auto Battery Save



If there are no transmissions within 10 seconds, the radio will automatically switch to **Battery Save** mode and the **Power Saver** icon will flash in the display.

This will not affect the radio's ability to receive incoming transmissions.

### Communicating with Another Person



1. Press and hold the **Talk** button.
2. Position the microphone about two inches (5 cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.



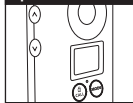
Both radios must be tuned to the same channel and privacy code to communicate.



This radio is equipped with **default Privacy Code on each channel** for minimizing unwanted signals from others. See page 9 to 10 for procedures changing your radio from default Privacy Code to a different Privacy Code or disabling Privacy Code.

## To Select a Channel

### Up & Down Button



Press **Mode** button once, then press **Up** button or **Down** button.



Both radios must be tuned to the same channel to communicate.

### Channel Number



See **page 8** for frequency allocations charts.



Note: Your radio has 8 channels by default. In countries where 16 channels are allowed, you can activate Channels 9 to 16 with the following steps:

- Press and hold **Mode** button and then, turn on the power with Volume knob.
- 8 ch or 16 ch will be shown on display for two seconds. (8 ch and 16 ch represent 8 channels mode and 16 channels mode respectively).
- Repeat steps above to toggle between the 8 channels or 16 channels mode.



Note: Only Channels 1 to 8 are available by default. Channels 9 to 16 need to be activated by user before they can be selected.

Channels 9 to 16 should only be used in countries where these frequencies are allowed by government authorities.



## Listening for a Response

### Listening



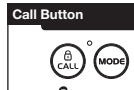
Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

## To Adjust Volume

1. Rotate  clockwise to increase the volume.
2. Rotate  counterclockwise to decrease the volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it can hurt your ear.

## Call Button



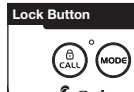
Press and release the **Call** button.

The other person will hear a three second call tone. This tone is used only to establish voice communications.

## Auto Squelch

Your microTALK® radio will automatically shut **off** weak transmissions and unwanted noise due to terrain, conditions limit.

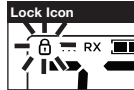
## Lock Function



The **Lock** function locks the **Up**, **Down** and **Mode** buttons to prevent accidental operation.

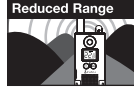
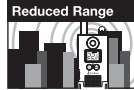
**To turn the lock on or off:**

- Press and hold the **Lock** button for two seconds.



A double beep sound is used to confirm your lock **enabled**. When in **Lock** mode, the **Lock** icon will be displayed also.

## microTALK® Range



Your range will vary depending on terrain and conditions.

In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range of the radio.

Dense foliage and hilly terrain will further reduce the range of the radio.

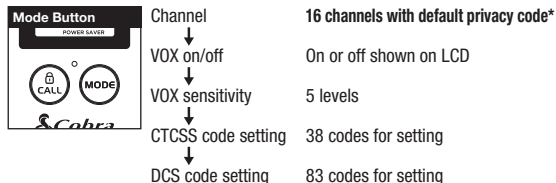


## Operation

### Mode Functions

#### Scrolling Through the Mode Function

By scrolling through the **Mode** function, you will be able to select or turn on preferred features of your microTALK® radio. When scrolling through the **Mode** function, your radio features will be displayed in the same predetermined order:



Note: \* Only Channels 1 to 8 are available by default. Channels 9 to 16 need to be activated by user before they can be selected.

Channels 9 to 16 should only be used in countries where these frequencies are allowed by government authorities.

#### Privacy Codes

Your microTALK® radio incorporates two advanced coded squelch systems that can help to reduce interference from other users on any given channel. CTCSS (Continuous Tone Coded Squelch System) provides 38 privacy codes and DCS (Digitally Coded Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.

For ease of use and to reduce interference from other users, the 16 channels of your radio have been customized, see **Channel and Default Privacy Code Table**.

#### Channel and Default Privacy Code Table

| Channel | Freq.(MHz) | Privacy Code |        |
|---------|------------|--------------|--------|
|         |            | Type         | Number |
| 1       | 446.00625  | DCS          | 1      |
| 2       | 446.01875  | DCS          | 11     |
| 3       | 446.03125  | DCS          | 22     |
| 4       | 446.04375  | DCS          | 33     |
| 5       | 446.05625  | DCS          | 44     |
| 6       | 446.06875  | DCS          | 55     |
| 7       | 446.08125  | DCS          | 66     |
| 8       | 446.09375  | DCS          | 77     |
| 9       | 446.10625  | DCS          | 1      |
| 10      | 446.11875  | DCS          | 11     |
| 11      | 446.13125  | DCS          | 22     |
| 12      | 446.14375  | DCS          | 33     |
| 13      | 446.15625  | DCS          | 44     |
| 14      | 446.16875  | DCS          | 55     |
| 15      | 446.18125  | DCS          | 66     |
| 16      | 446.19375  | DCS          | 77     |



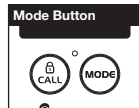
You can change your radio Privacy Codes in order to work with other radios with different privacy codes or radio without privacy codes. See page 9 and 10 for procedures.



Note: \*Only Channels 1 to 8 are available by default. Channels 9 to 16 need to be activated by user before they can be selected.

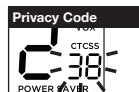
Channels 9 to 16 should only be used in countries where these frequencies are allowed by government authorities.

## Set CTCSS Privacy Codes

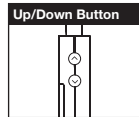


### To select a CTCSS privacy code:

1. After selecting a channel, press the **Mode** button until the **CTCSS** icon appears and the small numbers next to the channel number flash on the display.



If DCS is turned on at the channel selected, the display will flash the CTCSS icon and "OFF." To switch from DCS to CTCSS, press the **Up** or **Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

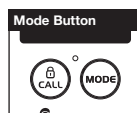


2. Press the **Up** or **Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.

3. When your desired CTCSS privacy code is displayed, choose one of the following:

- Press the **Mode** button to enter the new setting and proceed to other functions.
- Press the **Talk** button to return to **Standby** mode.
- Do not press any buttons for 6 seconds to return to **Standby** mode.

## Set DCS Privacy Codes

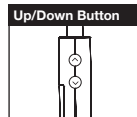


### To select a DCS privacy code:

1. After selecting a channel, press the **Mode** button until the **DCS** icon appears and the small numbers flash on the display (00 through 83).



If CTCSS is turned **on** at the channel selected, the display will flash the DCS icon and "OFF." To switch from CTCSS to DCS, press the **Up** or **Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.



2. Press the **Up** or **Down** button to select a DCS privacy code. You can hold the **Up** or **Down** button for fast advance.

3. When DCS privacy code is displayed, choose one of the following:

- Press the **Mode** button to enter the new setting and proceed to other functions.
- Press the **Talk** button to return to **Standby** mode.
- Do not press any buttons for 6 seconds to enter the new settings and to return to **Standby** mode.



To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.

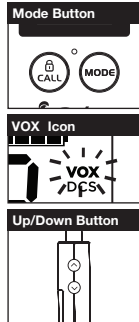


The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.



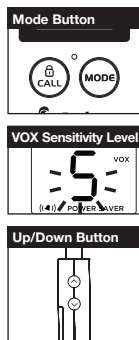
## Voice Activated Transmit (VOX)

In **VOX** mode, your microTALK® radio can be used “hands-free,” automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.



### To turn **VOX** mode on or off:

1. Press the **Mode** button until the **VOX** icon shown on the display. The current **On** or **Off** setting is displayed.
2. Press the **Up** or **Down** button to turn **VOX On** or **Off**.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the new setting and proceed to other functions.
  - b. Press the **Talk** button to return to **Standby** mode.



### To set **VOX** sensitivity:

1. Press the **Mode** button until the **VOX** icon flashes and the current sensitivity level is displayed.



The current **VOX** sensitivity level is displayed with letters “L” and a Number 1 through 5, with Number 5 being the most sensitive level and Number 1 being the least sensitive level.

2. Press the **Up** or **Down** button to change the setting.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the new setting and proceed to other functions.
  - b. Press the **Talk** button to return to **Standby** mode.
  - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

## Call Alert

Your microTALK® radio can alert you to incoming signals by sounding an audible call tone.

### Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you have finished talking and it is OK for them to speak.

### Key Tone

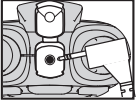
**Key Tone** is an audible tone which will sound each time a button is pressed.



## Connect the Audio Accessory

### Surveillance Headset\* (GA-SV01)

#### Microphone Jack



Plug earbud/microphone into radio.

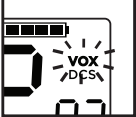
#### Wearing



Place earbud in ear.

### VOX Feature

#### VOX icon



Turn your radio VOX mode on.

#### VOX button



Select VOX mode on your headset.

### PTT Feature

#### PTT mode button



Select PTT mode on your headset.

#### Two inches from mouth



Place the microphone about two inches (5 cm) from your mouth.

#### PTT button



PTT:  
Push to Talk.

#### \*NOTE :

For use with microTALK® 2-way radio with SINGLE-PIN speaker/microphone jack.



# Declaration of Conformity (DoC)

We, the company Altis Zenus BV in the Netherlands  
Wassenaarseweg 57,  
2596CL The Hague  
Niederlande/ Netherlands

declare under our sole responsibility that the following product

Type of product: Walkie Talkie  
Trademark: Cobra  
Model: PU500  
Further details: battery operated, 446MHz

meets the essential requirements of the following EU-Directives:

2014/53/EU Directive on the making available of radio equipment on the market  
2011/65/EU Directive on the restriction of the use of certain hazardous substances  
in electrical and electronic equipment

applied standards and regulations:

EN 60950-1:2006+AC:2011+A11:2009+A1:2010+A12:2011+A2:2013  
EN 50566:2017  
EN 303 405 V1.1.1  
EN 300 296 V2.1.1  
EN 301 489 V2.1.1  
EN 301 489-5 V2.1.1  
EN 50581:2012

Authorized person for technical documentation:

Name, Position: Jaap Derk Buma, Director



The Hague, 30-7-2018

Date

Signature

## Trademark

CEEL™ is a registered trademark of Cobra Electronics Europe, Ltd.

Snake design and microTALK® are registered trademarks of Cobra Electronics Corporation, USA.

## Warranty & Customer Service

For warranty and customer service information, please contact your dealer.

For use in EU countries, subject to local laws and regulations.

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Niederlande/ Netherlands



