



BlueBound 650

OWNER'S MANUAL



VHF Transceiver

BlueBound 650E

MARINE RADIO



Introduction

Thank you for purchasing a Cobra Marine® VHF radio. When used properly, this Cobra® product will give you many years of reliable service.

How Your Cobra Marine VHF Radio Works

This radio is a battery-powered portable transceiver for use on the water. It gives you 2-way vessel-to-vessel and vessel-to-shore station communications, primarily for safety and secondarily for navigation and operational purposes. With it, you can call for help, get information from other boaters, talk to lock or bridge tenders and make radiotelephone calls to anywhere in the world through a marine operator.

Customer Assistance

Should you encounter any problems with this product or not understand its features, please refer to this manual. If you require further assistance after reading this manual, Cobra Electronics offers the following customer assistance services:

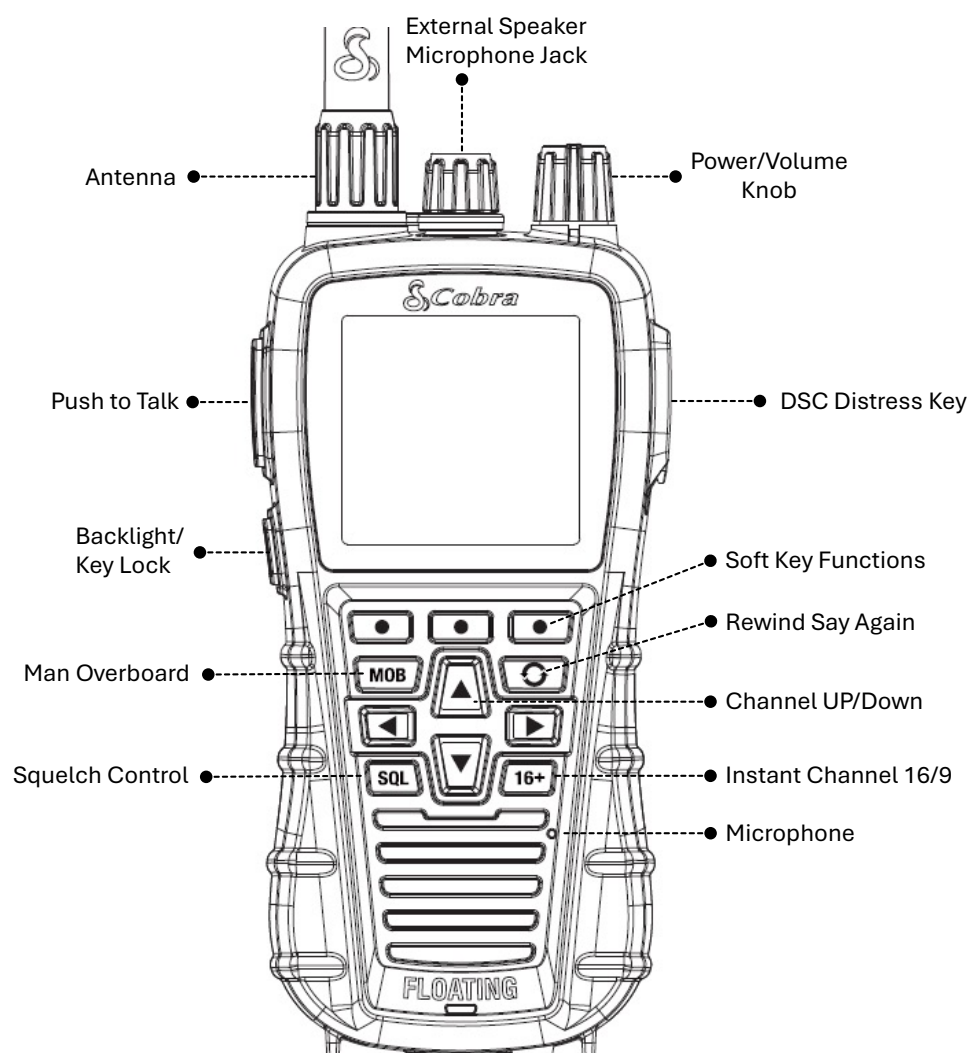
Open a support ticket on eu.cobra.com: <https://www.eu.cobra.com/pages/contact-us>



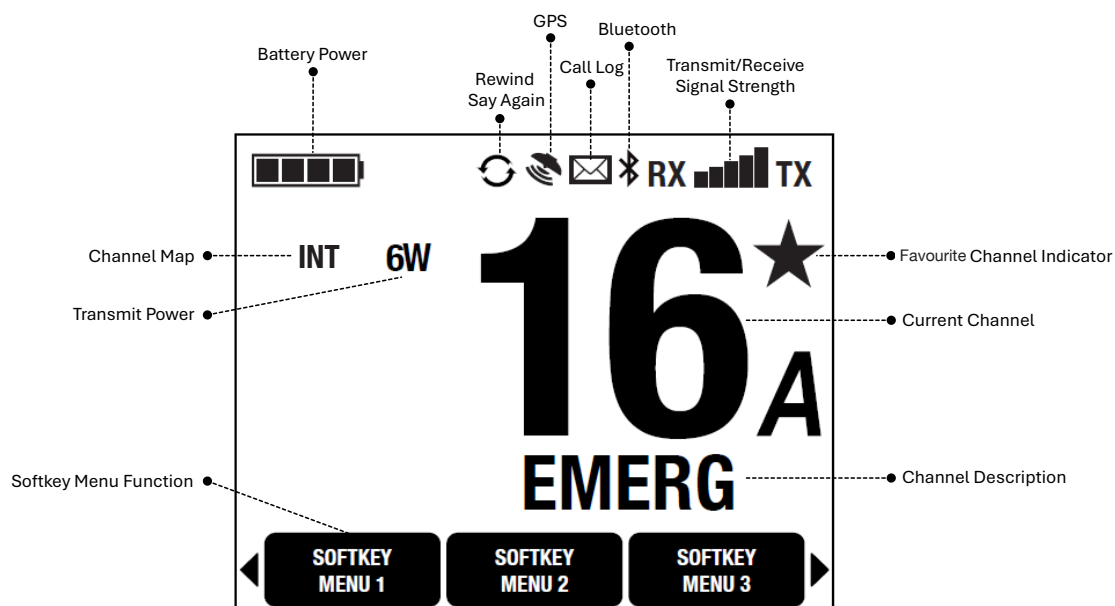
AT	BE	CH	CY
CZ	DE	DK	EE
ES	FI	FR	GB
GR	HU	IE	IS
IT	LT	LV	LU
MT	NL	NO	PL
PT	SE	SI	SK
TR			



Radio Overview



LCD Screen





Introduction

Product Features

Power Settings

Select 1, 3, or 6 Watts of output power for near or distant calling

Built-In GPS Receiver

Shows GPS coordinates on screen and automatically sends GPS location with DSC calls

Digital Selective Calling (DSC Class-D)

Allows the ability to maintain a listening watch on VHF Channel 16 while simultaneously monitoring Channel 70 for DSC calls. Allows sending a distress message at the touch of a button as well as specific station-to-station calls

Active Noise Cancellation

Reduce background noise on both incoming and outgoing transmissions

Bluetooth Connectivity

Pair your mobile phone to receive voice calls through the BlueBound 650 or pair with a wireless headset for hands free communication

USA/International/Canada Channels

Allows operation on any of the three (3) different channel maps established for these areas

Floating and Waterproof

IPX7 waterproofing ensures radio floats when immersed in water

Float N' Flash

Radio strobe light will flash while floating when dropped in water

Dock Charger

Dock charger with additional battery charging slot for recharging

120V/12V Charging Adapters

Includes charging dock adapter cables for both AC and 12V power outlets

Instant Channel 16/9

Provides instant access to Priority Channel 16 and Calling Channel 9

Tri-Watch

Use to monitor three channels at once, Channel 16 and two user selected channels

Rechargeable Lithium-ion Battery

Recharge using the included USB-C dock charger and adapter

Favourite Channels

Save important channels as favourites

Speaker Mic Jack

Allows for connection to the Cobra speaker mic accessory



Introduction

Backlit Keypad & Day/Night Display

Day/Night LCD display and backlit functional buttons for high visibility

Locking Battery Latch

Quick release battery latch with sliding lock tab

BURP

Expels water from the speaker grill if the unit is dropped in the water or is subjected to extreme rain and weather

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Safety Information

Before using your Cobra marine VHF radio, please read these general precautions and warnings.

How Your Cobra Marine VHF Radio Works

Proper usage of this radio is important to achieve full functionality, so please read the operating instructions carefully before first use and refer to this guide again whenever necessary. Please pay special attention to the WARNING and NOTICE statements in this manual.

WARNING : Statements identify conditions that could result in personal injury or loss of life.

NOTICE : Statements identify conditions that could cause damage to the radio or other equipment.

General Precautions

The following Warnings and Notice information will make you aware of RF exposure hazards and how to ensure you operate the radio within the EU RF exposure limits established for the radio.

WARNINGS

Your radio generates electromagnetic RF (radio frequency) energy when it is transmitting. To ensure that you and those around you are not exposed to excessive amounts of that energy, **DO NOT** touch the antenna when transmitting. **KEEP** the radio at least two inches (5 cm) away from yourself and others when transmitting.

DO NOT operate with more than a duty cycle of 5% transmit, 5% receive and 90% standby. The radio is transmitting when the Talk button is pressed and the transmit information shows on the LCD screen.

ALWAYS use only Cobra authorized accessories.

DO NOT operate the radio in an explosive atmosphere, near blasting sites, or in any area where signs are posted prohibiting radio transmissions.

NEVER place the transceiver or microphone/speaker where they might interfere with operation of your vessel or cause injury.

DO NOT allow children or anyone unfamiliar with proper procedures to operate the radio without supervision.

Failure to observe any of these warnings may cause you to exceed EU RF exposure limits or create other dangerous conditions.

For Products Used in Canada

Industry Canada Notice

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Safety Information

Industry Canada Antenna Notice

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power is not more than necessary for successful communication.

Avis d'antenne du Canada d'industrie

En vertu de la réglementation de l'industrie du Canada, cet émetteur de radio ne peut fonctionner à l'aide d'une antenne d'un type et un maximum (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.



Safety Information

NOTICE

Your radio is waterproof only when the battery is properly installed.

AVOID using or storing the radio at temperatures below -4 °F (-20 °C) or above 140°F (60 °C).

KEEP your radio at least 3 ft (0.9 m) away from your vessel's magnetic navigation compass.

DO NOT attempt to service any internal parts yourself. Have any necessary service performed by a qualified technician.

This radio comes with a rechargeable Lithium-ion battery.

- Do not short circuit the battery.
- When replacing the battery, dispose of the old battery properly.
- Do not attempt to operate your radio while recharging the battery.

Changes of modifications to your radio may void its compliance with EU rules and regulations, making it possibly unsafe and illegal to use.

Recommendations for Marine Communication

The frequencies your radio uses are set aside to enhance safety afloat, for vessel navigation, and for operational messages over a range suitable for near-shore voyages. If the 6-Watt maximum output of your radio is not sufficient for the distances you travel from the coast, consider installing a Cobra Marine fixed mount radio with up to 25 Watts of output power.

The Coast Guard does not endorse cellular telephones as substitutes for marine radios. They generally cannot communicate with rescue vessels and, if you make a distress call on a mobile telephone, only the party you call will be able to hear you. Additionally, mobile telephones may have limited coverage over water and can be hard to locate. If you do not know where you are, the Coast Guard will have difficulty finding you if you are using a mobile telephone.

However, cellular telephones can have a place on board where cellular coverage is available to allow social conversations and keep the marine frequencies uncluttered and available for their intended uses.

Licensing Information

This Cobra marine radio incorporates a VHF FM transceiver designed for use in the frequency range of 156.025 to 163.275 MHz. It requires 7.4 volts DC and has a switchable RF output power of 1, 3 or 6 Watts. The radio operates on all currently allocated marine channels and is switchable for use according to International, Canadian, or U.S.A regulations.

Cobra marine VHF radios comply with the U.S FCC requirements that regulate the Maritime Radio Service.

Station Licence

The UK requires a ships radio licence and a marine radio operators' certificate before transmitting equipment can be used aboard a vessel. Other European countries have specific requirements of their own. For detailed information and applications, contact the Royal Mail Licensing Centre in the UK. In other countries contact the local equivalent of the UK Royal Mail or the national telecommunications authority.



Safety Information

Canadian or U.S.A Station Licence

If your vessel will be entering the sovereign waters of Canada or the U.S.A, you should contact Industry of Canada, Radio Regulatory Branch or the U.S Federal Communications Commission for licensing and operating information.

Radio Call Sign

Currently, the FCC does not require recreational boaters to have a licence. The United States Coast Guard recommends that the boat's registration number and state of registry be used as a call sign and be clearly visible on the vessel.

Canadian Ship Station Licence

You need a Radio Operator's Certificate if your vessel is operated in Canadian waters. Radio Operator training and certification is available from the Canadian Power Squadron.

User Responsibility and Operating Locations

All users are responsible for observing domestic and foreign government regulations and are subject to severe penalties for violations. The transmitting frequencies in your radio are reserved for maritime use; any frequency you use for transmission must be specifically included on your ship's licence. The VHF frequencies on your radio are reserved for marine use and require a special licence to operate from land, including when your boat is on its trailer. The use of ATIS is prohibited outside the European inland waterways covered by the Basel Agreement.

Disposal of Old Electrical or Electronics Equipment

This product may contain hazardous materials or substances that could impact health and the environment if not disposed of properly.

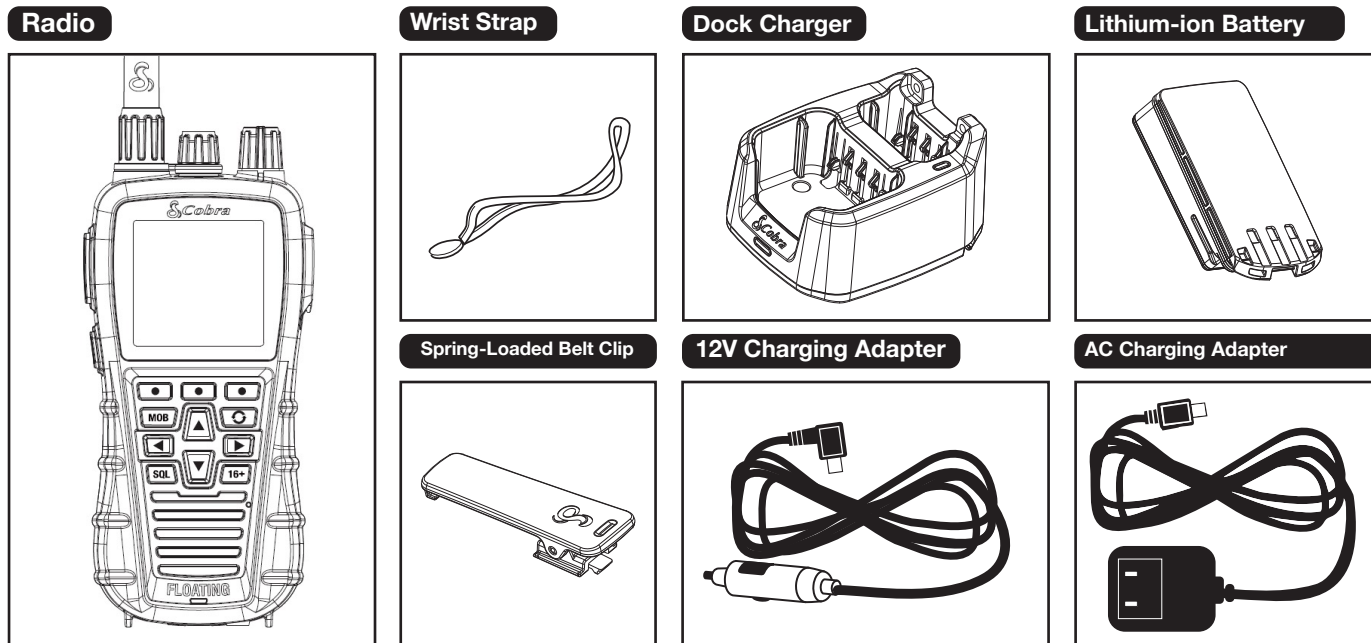


The crossed out wheeled bin symbol indicates that the product should not be disposed of along with household waste. It should be handed over to an applicable collection point for the recycling of electrical equipment. By ensuring that this product is disposed of correctly you will help/prevent potential negative impact on the environment



Operation

Included in this Package



Wrist Strap and Belt Clip

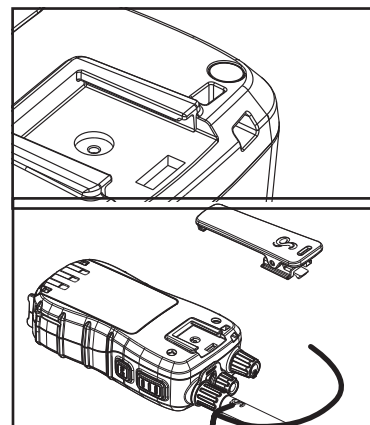
Wrist Strap

The wrist strap is attached to the radio by routing the tether cord through the wrist strap hole on the upper back portion of the radio's housing.

Belt Clip

Use the spring-loaded belt clip to carry the radio on your person.

1. Slide the belt clip into the guide channel on the back of the radio until it is locked in place.
2. Press the belt clip open and place it over the belt.
3. To remove the belt clip from the radio, press the tab on the belt clip, which unlocks the clip and slide the clip out from the radio.



External Speaker/Microphone Jack

Your radio can be fitted with an optional External Speaker/Microphone (not included), freeing your hands for other tasks. Contact your local Cobra Marine dealer or visit eu.cobra.com to find out more about the marine speaker mic accessory.

To attach the external speaker/microphone:

1. Open the speaker/microphone tab on top of the radio.
2. Insert the plug into the speaker/microphone jack.

Warning: An Improper connection of the speaker microphone can compromise the radio's waterproofness.



Operation

Batteries and Charging

The radio is shipped with a sealed rechargeable Lithium-ion (LiON) battery (P/N 0010103-2).

Warning: The charger provided for this radio is only to be used to charge the battery pack provided. Do not charge any other type of batteries in the charger as fire, explosion or battery damage could occur. Avoiding extreme temperatures will also help prolong the life of the battery pack for the radio.

Installing the Battery Pack

1. Slide the bottom locking latch to the Unlock position.
2. Position the battery pack over the back of the radio.
3. Insert the battery tabs into their corresponding slots and press down to secure the battery with the battery latch.
4. Slide the battery locking latch to the locked position.

Removing the Battery Pack

1. Slide the battery locking latch to the Unlock position.
2. Push down on the battery latch to release the battery.
3. Gently remove the battery from the rear of the radio.

Initial Charge

The Cobra provided Lithium-ion battery pack may be charged using the supplied dock charger with either the 12V or AC charging adapter. Additionally, the provided dock charger also contains a slot to charge an additional backup battery. Both the radio and an extra battery (sold separately) can be charged simultaneously in the dock charger.

To charge your radio

1. Connect either the 12V or AC charging adapter to their respective power outlets.
2. Connect the USB-C end of the charging adapter to the dock charger
3. Place your radio into the front slot on the dock charger. The light on the front of the dock charger will indicate that the radio is being charged.
4. When the light turns green the radio's battery is fully charged.

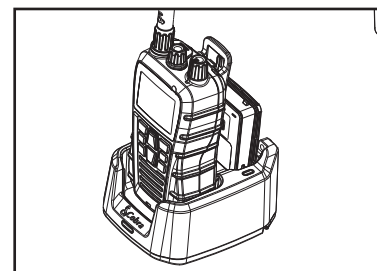
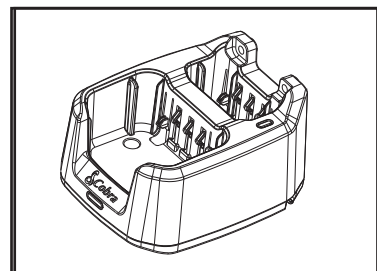
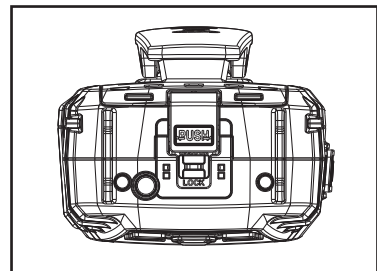
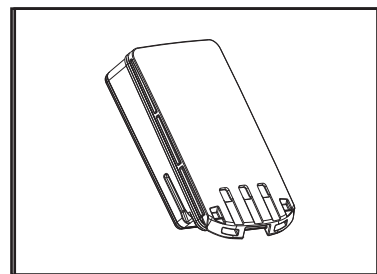
To charge an extra battery

1. Position the battery so that the terminals on the battery match the same side as the terminals on the charger.
2. Slide the battery into the rear slot on the dock charger. The light on the side of the dock charger will indicate that the battery is being charged.
3. When the light turns green the battery is fully charged.

Warning: Only use Cobra BlueBound battery packs with the supplied dock charger.

Battery Charge Levels

As you use your radio, the battery power icon will show the remaining



Fully Charged



Partially Charged



Fully Discharged



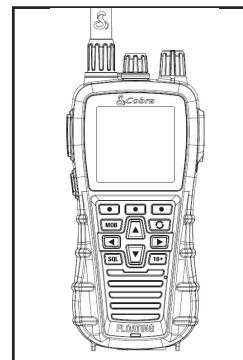


Operation

battery power. As the radio's battery is drained, the displayed charge bar will begin to decrease. When the battery icon begins to flash, it is time to recharge or change the battery. It is recommended to recharge your radio after every use in order to keep the battery fully charged.

Basic Radio Functions

Refer to the radio overview section at the beginning of the manual to identify the various controls and indicators on your radio. Throughout this manual you will be instructed to “Press” or to “Press and Hold” various buttons (except PTT “Push to Talk”) on the radio. “Press” means a momentary press of approximately one second. “Press and Hold” means to hold the button down for approximately three seconds. Whenever you press any button except the PTT button on your radio, a brief tone (beep) will sound to confirm the button press. With all button presses, the appropriate icon will appear on the LCD and the backlight will turn on for 10 seconds. At times, you will hear two other sounds. Two beeps will sound to confirm your setting changes, and three beeps will sound to notify you of an error.

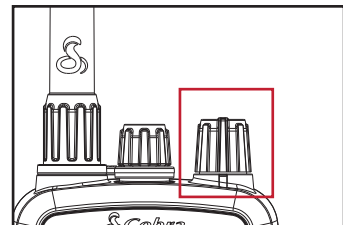


Power Knob

Powering ON/OFF the radio:

1. To turn the radio ON, rotate the knob clockwise past the orange indicator line
2. To turn the radio OFF, rotate the knob counterclockwise fully until the orange line on the knob aligns with the orange indicator line on the radio.

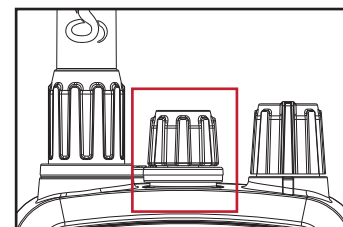
Power/Volume Knob



Power Saver

Your radio has a unique circuit designed to extend battery life. If there are no transmissions, signals, or button presses for ten seconds, the radio will automatically switch to Power Save mode. Signal reception or any button press will take the radio out of Power Save mode.

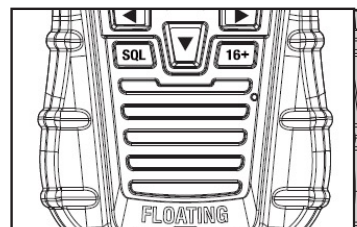
Speaker Mic



Volume Control

- To turn the volume up on the radio, rotate the POWER/VOLUME knob clockwise, up to the maximum level.
- To turn the volume down on the radio, rotate the POWER/VOLUME knob counterclockwise.

Speaker & Microphone



Radio Speaker and Microphone

The internal radio speaker and microphone are located on the bottom front face of the radio below the lower control buttons.

An optional Speaker/Microphone jack is located at the top of the radio. Flip the protective cap open and insert the plug into the jack to connect Cobra's accessory Speaker Mic.



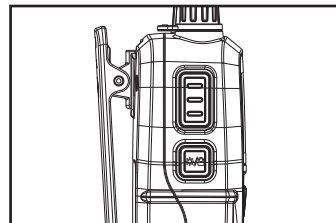
Main Radio Buttons

Backlight/Key Lock Button

The LCD will be illuminated by the backlight when any button is pressed (apart from the PTT button) and will remain on for 10 seconds after the button is released.

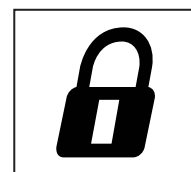
Press the Backlight/Key Lock button to display the backlight temporarily. The backlight will remain ON for 10 seconds. If the backlight is already On, a press of the Backlight/Key Lock button will turn the backlight Off.

Backlight/Key Lock



Key Lock

To prevent accidental changes to your settings, you can lock all the buttons on the front of the radio with the Backlight/Key Lock button.



To Lock or Unlock the Buttons:

Press and hold the Backlight/Key Lock button for two seconds. The Key Lock icon will appear or disappear on the LCD screen, indicating if Key Lock has been enabled or disabled. When Key Lock is on, pressing any of the buttons on the front of the radio will result in a three-beep error tone.

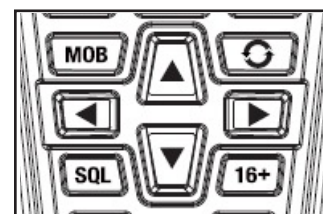
Both the Backlight/Key Lock button and the PTT button are still active when key lock has been enabled. You can Receive (Rx) or Transmit (Tx) a message with Key Lock On, but you cannot change channels or modify other settings.

Channel Up/Down Buttons

Your radio will Receive (Rx) and Transmit (Tx) VHF signals on the channel indicated on the LCD display. You can change the channel at any time using the Channel Up/Down buttons.

To Change Channels:

Press the Channel Up/Down buttons.



When you reach the highest channel in the current channel map, pressing the Channel Up button will return to the beginning of the channel map at the lowest channel. If you are on the lowest channel in the current channel map, pressing the Channel Down button will return to the end of the channel map at the highest channel.

You can press and hold the Channel Up/Down button for automatic scrolling through channels.

If the newly selected channel is restricted to low power, the radio will automatically switch to Low Power mode and the Low Power icon will appear on the LCD.

If the radio is in Key Lock mode, the channel will not change and the three beep error signal will sound.



Operation

Squelch (SQL) Button

Squelch control filters weak signals and radio frequency (RF) noise so that you can clearly hear the signals you want.

1. Press the SQL button to open the squelch control menu.
2. Press the UP/DOWN arrow keys to adjust squelch levels between 0-10.
3. To adjust squelch, press the DOWN arrow key until you hear a hissing sound, then press and release the UP-arrow key until the hissing stops. This will establish a “baseline” squelch setting.
4. Pressing the UP-arrow key further will filter out weak and medium strength signals. Pressing the DOWN arrow key will allow the radio to receive weaker signals.
5. Press the ENTER softkey to save your selection and return to VHF standby mode. Alternatively, if no action is taken by the user for 10 seconds, the radio will automatically save settings and return to VHF standby mode.

Note: if squelch is too low where there is continuous received transmission noise being output, Tri-Watch & scan functionality will be temporarily disabled.

16+ Button

The 16+ button gives you quick access to Channel 16 and Channel 9 from any operational mode.

- Press the 16+ button to change to Channel 16.
- Press the 16+ button again to change to Channel 9.
- Press the 16+ button a third time to return to the last used marine standby channel.

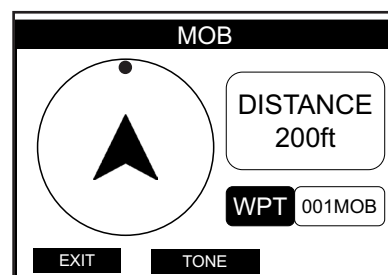
Man Overboard (MOB) Button

Your radio features the Man Overboard function that marks and memorizes the position information if a crew member falls overboard. The radio will help navigate back to that location.

Note: The radio can't calculate for the effects of tide, current and wind on your crew member's location over time. The MOB function can only act as a guide for their possible location.

Note: The radio must have satellite reception for MOB to mark the position.

1. Press and release the MOB key to save your current coordinates as a waypoint and automatically enter the MOB compass screen.
2. A compass view will show your vessel's current position along with a pin marking the location and distance to the MOB waypoint relative to the radio's current position.
3. While in this view, the arrow representing your vessel will be set to Track Up.
4. The radio will also sound a homing tone that increases in frequency the closer you are to the MOB waypoint. To silence this tone, press the TONE softkey.
5. Press the Exit softkey to exit the MOB compass and return to the VHF standby screen.



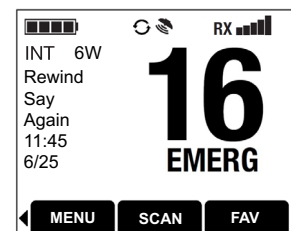
Rewind Say Again Button

Your radio has the capability to record and play back incoming transmissions, and can even pre-record messages that can be sent out by the user on demand.



Turning on Transmission Playback

1. Press the Rewind Say Again key to activate transmission recording.
2. The Rewind Say Again icon and “Rewind Say Again” will show on the LCD display.
3. Any new incoming transmissions will be recorded and saved by the radio.
4. To turn transmission playback off, press and release the Rewind Say Again key.



Playing Back Transmissions

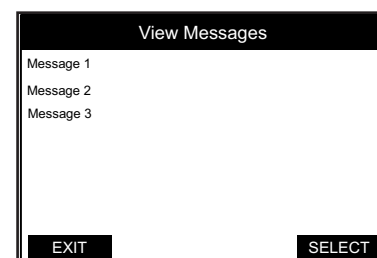
1. If a transmission was received while Rewind Say Again was active, you can play it back on demand.
2. Press and hold the Rewind Say Again key to enter the Rewind Say Again Menu.
3. Press the ENTER softkey on the View Recordings menu option to view the most recently saved recordings.
4. Choose the desired recording to play and press the PLAY softkey.
5. To delete a recording, press the DEL softkey.

Recording a Message

Your BlueBound 650 has three memory slots that allow you to pre-record messages that can be transmitted on demand. To select a recording slot and record a message, follow the steps below.

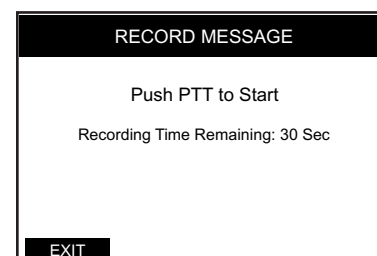
Selecting a Message Recording Slot:

1. While in the Rewind Say Again menu, choose the View Messages option with the ENTER softkey.
2. Highlight which message slot you wish to use and press the SELECT softkey to choose that slot. If there is already a message saved in that slot, you will have the option to either delete the current message with the DEL softkey or playback the message with the PLAY softkey.
3. Once the chosen message slot has been selected, the next recorded message will be saved to that message slot.



Recording a Message:

1. Choose the desired message slot that the radio will record to by following the previous section's instructions and exiting back to the Rewind Say Again main menu.
2. While in the Rewind Say Again menu, choose the Record Message option with the ENTER softkey.
3. Press and hold the PTT key to begin recording your message. When you have finished recording, release the PTT key to stop the recording.
4. Press the PLAY softkey to playback your saved message.
5. Press the SAVE softkey to save your message.



Transmitting a Saved Message

1. Make sure you are on the correct channel you wish to transmit your message on.
2. Enter the Rewind Say Again menu by pressing and holding the Rewind Say Again key.



Operation

3. Choose the View Messages option with the ENTER softkey.
4. Choose which message you want with the SELECT softkey.
5. Press the SEND softkey and then press and hold the PTT to begin the transmission. Continue to hold the PTT key for the duration of the transmission.
6. Once the phrase “FINISHED TRANSMISSION” has appeared, press either the left or right softkeys to exit back to the View Messages menu.

VHF Standby Menu Softkeys

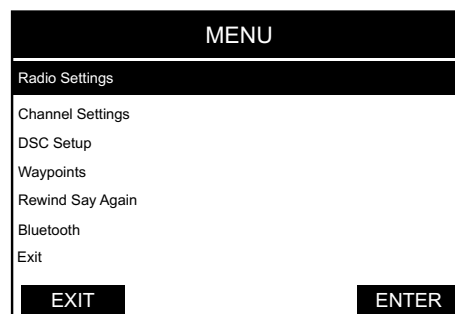
Your BlueBound 650 has multiple functions and settings that can be quickly accessed from the VHF standby screen with the softkey buttons. Use the Left/Right arrow keys to scroll through additional options while on the VHF standby screen.

- **Menu:** Press the MENU softkey to open the BlueBound 650 main menu.
- **Scan:** Press the SCAN softkey to automatically scan through all channels. Press and hold the SCAN softkey to automatically scan through favoured channels.
- **FAV:** Press the FAV softkey to manually move to the next favourite channel in your favourite channel list. Press and hold the FAV softkey to save the current channel as a favourite channel.
- **CALL:** Press the CALL softkey to open the DSC call menu.
- **NAV:** Press the NAV softkey to open the navigation compass screen.
- **TW:** Press the TW softkey to start Tri-Watch monitoring.
- **H/M/L:** Press the H/M/L softkey to change transmission power level between 6/3/1W.
- **BURP:** Press the BURP softkey to initiate BURP water removal process.
- **LIGHT:** Press the LIGHT softkey to open the backlight menu.
- **LOG:** Press the LOG softkey to open the call waiting menu.
- **MARK:** Press the MARK softkey to mark your current GPS coordinates and save them as a waypoint.

Main Menu

The BlueBound 650's main menu provides access to a variety of settings and features that are not available directly on the VHF Standby Screen. Through the main menu, users can adjust additional radio settings and key functions.

- Radio Settings
- Channel Settings
- DSC Setup
- Waypoints
- Rewind Say Again
- Bluetooth



Radio Settings:

While making changes within radio settings, pressing the EXIT softkey will back up one level within the menu without saving your changes, while pressing the SELECT softkey will save your selection and return you to the previous menu.



Operation

Backlight:

This section of the menu allows the user to directly adjust the colour and brightness level of their BlueBound 650 radio.

- **Colour:** Use the UP/DOWN arrow keys to select between amber and white backlight colours and press the SELECT softkey to save selection.
- **Brightness:** Use the UP/DOWN arrow keys to adjust the backlight brightness levels between 0-5.

Contrast:

- Use the UP/DOWN arrow keys to adjust the contrast level on the radio between 0-16.

Key Tone:

- Use the UP/DOWN arrow keys to select key tone ON/OFF. When key tone is set to ON, the radio will give audio feedback on key press, setting changes, or when errors occur.

Noise Reduction:

Your BlueBound 650 features active noise cancelling for both transmitted (TX) and received (RX) transmissions.

- **TX NR:** Use the UP/DOWN arrow keys to adjust the level of noise reduction on outgoing transmissions (TX) between 0-5. The higher the number chosen within the settings will correspond to a higher level of noise reduction by the radio on outgoing transmissions.
- **RX NR:** Use the UP/DOWN arrow keys to adjust the level of noise reduction on received transmissions (RX) between 0-5. The higher the number chosen within the settings will correspond to a higher level of noise reduction by the radio on received transmissions.

Time Adjust

All VHF, DSC, and GPS activities use a 24-hour clock and Universal Coordinated Time (UTC). Time adjust will allow the radio to display the time as local time or UTC time. To convert to local time, you need to enter the hour offset of your local time zone. You can also choose to have the time displayed in a 12 or 24-hour format.

- **Time Offset:** Use the UP/DOWN arrow keys to change the local time offset from the Coordinated Universal Time (UTC). Time increments are changed in 30-minute intervals. The BlueBound 650 will remember the saved local time zone setting when powering off the radio. If the correct time offset is saved the time will be displayed in local time.
- **Time Format:** Change between 12-hour and 24-hour time formats. The selected time format is displayed on the VHF standby screen.



GPS

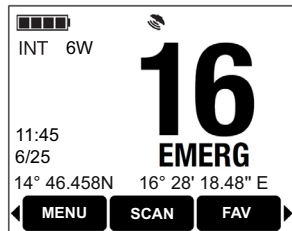
Your BlueBound 650 has a GPS receiver built-in to enable the multiple features on the radio that rely on GPS data. Additionally, these GPS coordinates can be displayed on the radio's VHF standby screen for



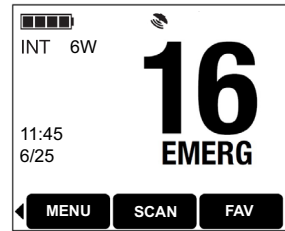
Operation

additional information.

- **Coordinate System:** Choose how the GPS coordinates will be displayed on the VHF standby screen with the UP/DOWN arrow keys.
 - DDD°MM,MM
 - DDD°MM,MMM
 - DDD°MM'SS"
- **SBAS:** Satellite Based Augmentation System (SBAS) can be turned on or off with the UP/DOWN arrow keys. SBAS is set to ON by default, but may need to be turned off for greater accuracy in some areas of the earth.
- **GPS Status:** Displays the current GPS satellite info and GPS signal strength.
- **GPS Info:** Allows the user to change if the GPS coordinates are displayed on the VHF standby screen. When set to ON, the GPS coordinates in the chosen coordinate system will be displayed below the date/time on the VHF standby screen. By default, this is set to OFF.



ON



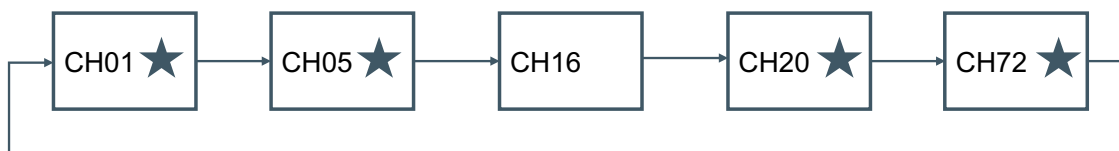
OFF

****Note:** Even if GPS info is set to OFF, the radio still maintains the current GPS coordinates in local memory if the radio has a GPS signal lock. These coordinates will automatically populate when using functions that require GPS coordinates. Turning the GPS coordinates off on the home screen helps avoid clutter and increase visual clarity on the VHF standby screen. This can always be changed to ON where the radio will permanently display the GPS coordinates on the VHF standby screen.

Channel Settings:

Priority Channel:

Use the UP/DOWN arrow keys to turn priority channel ON/OFF. When set to ON, the radio will always include channel 16 during a favourite channel scan, even if channel 16 has not been set as a favourite channel. By default, this is set to ON.



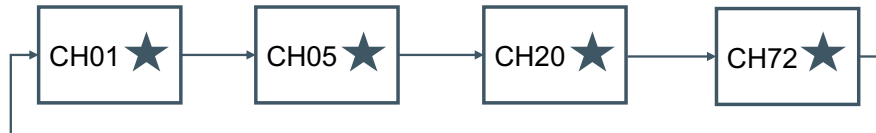
Channel 16 not set as Favourite Channel but Priority Channel is ON



Operation



Priority Channel is OFF, but Channel 16 is set as a Favourite Channel



Priority Channel is OFF and Channel 16 is not set as a Favourite Channel

Channel Map:

There are 3 sets of VHF channel maps that have been established for marine use in the U.S.A, Canada, and the rest of the world (International). See the channel list in the appendix of the manual for a full breakdown on all channels. Use the UP/DOWN arrow keys to select between the 3 different channel maps.

1. USA
2. International
3. Canada

Watch Type:

The watch function on the BlueBound 650 gives you quick softkey access to scan a few channels of most importance to you. Channel 16 will always be included, regardless of if Dual or Tri-Watch is chosen.

- Select between the two different watch types with the UP/Down arrow keys.
 1. Dual-Watch: Monitor channel 16 and one user selected channel.
 2. Tri-Watch: Monitor channel 16 and two user selected channels.
- The first user selected channel is the current channel the radio is on when DW/TW is initiated.
- The second user selected channel is the Call Channel. The Call Channel can be adjusted to any channel within the menu by following the steps shown below.

Call Channel:

Use the UP/DOWN arrow keys to select the call channel from the provided list of channels. This chosen channel will be monitored when Tri-Watch is activated.

SELECT CALL CHANNEL	
NULL	
2001	
2005	
06	
2007	
08	
09	
EXIT	ENTER

DSC Setup:

MMSI Entry:

An MMSI number is a nine (9) digit number used on a marine radio capable of using digital selective calling (DSC). It is used to selectively call other vessels or shore stations. For the BlueBound to operate in DSC mode, you must enter your MMSI number.

DSC SETUP	
MMSI ENTRY	
Individual Directory	
Group MMSI	
Position Reply	
Auto Channel Switch	
EXIT	SELECT



Operation

- If an MMSI number has not been entered by a user into the radio, this will bring up a keyboard to enter in an MMSI number to the radio. Use the arrow keys to enter in the MMSI number and press the CONFIRM softkey to save entry. If an MMSI number has already been assigned to the radio, it will be displayed here.

Individual Directory:

Your radio can store other vessel MMSI numbers as individual records to allow for quick access when making calls or position requests to specific stations whose MMSI number you know. The individual directory will list all currently saved individual MMSI records that you have saved into your radio.

- **New Entry:** Pressing the NEW softkey while in the individual directory allows the user to input a new record into the individual directory. Use the arrow keys on the keyboard to input the desired name and MMSI number for the new record and press the CONFIRM softkey to save.
- **Select Saved Entry:** Selecting a saved record brings up a window to either view additional information, edit the saved record, or delete the record from memory.

Group MMSI:

Nautical organizations such as yacht clubs and the organizers of events can establish Group MMSI numbers. These allow a message to be sent automatically to all members of the group without having to call each one individually. Each member of the group must enter the group MMSI number into their radio to receive group messages.

- **New Entry:** Pressing the NEW softkey while in the group directory allows the user to input a new record into the group directory. Use the arrow keys on the keyboard to input the desired name and MMSI number for the new record and press the CONFIRM softkey to save.
- **Select Saved Entry:** Selecting a saved record brings up a window to either view additional information, edit the saved record, or delete the record from memory.

Position Reply:

The BlueBound 650 can send your position information to another station when requested through a DSC call. This can be set to automatically respond to all position requests it receives or alert you to a position request and allow for a manual response.

- Press the UP/DOWN arrow keys to choose between Auto and Manual.

POSITION REPLY

AUTO

MANUAL

EXIT SELECT

Auto Channel Switch:

This setting allows the BlueBound 650 to automatically switch to the requested channel when receiving an individual call.

- Press the UP/DOWN arrow keys to choose between On and Off.
- When set to On, the radio will automatically switch to the requested call channel when a DSC call is received.

AUTO CHANNEL SWITCH

ON

OFF

EXIT SELECT

Individual Call Reply:

This setting provides the ability to disable automatic replies when receiving Individual DSC calls if desired.

INDIVIDUAL CALL REPLY

AUTO

MANUAL

EXIT SELECT



Operation

- Press the UP/DOWN arrow keys to choose between Auto and Manual.
- When set to Manual, the radio will prompt the user to reply to a DSC call when received, which can be manually responded to or exited to return to VHF standby mode.

Manual Position Entry:

If the radio cannot acquire a GPS lock, there is an option to manually enter GPS coordinates into the radio. Once entered, those provided GPS coordinates will be used by the radio until a GPS lock has been established, or the radio has been power cycled.

- Use the keyboard to enter the GPS time and coordinates, then press the CONFIRM softkey to save entry into the radio and return to the DSC menu.

Waypoints:

The BlueBound 650 can save GPS coordinates as waypoints into memory for future reference and direct navigation with the NAV compass.

Waypoint Directory:

Waypoints saved from the VHF standby screen or entered in manually will be saved within the Waypoint Directory.

- **Saving a Waypoint from VHF Standby**

1. Press the MARK softkey while in VHF standby when the radio has a GPS lock to save those coordinates as a new waypoint within the waypoint directory.
2. A new waypoint within the waypoint directory will be created with the relevant coordinates automatically populated. Use the keyboard to adjust the waypoint name as desired and press the CONFIRM softkey to save the entry as a new navigation waypoint.

- **Saving a new Waypoint from Waypoint Directory:**

1. While in Waypoint Directory, choose between Navigation or MOB waypoints. All waypoints saved from VHF standby with the MARK softkey will be saved into Navigation waypoints and all waypoints saved with the MOB key will be saved into MOB waypoints.
2. Press the NEW softkey to open a new waypoint setup menu.
3. Use the keyboard to enter in the chosen waypoint name and GPS coordinates.
4. Press the SAVE softkey to save a new waypoint with the entered information.

- **Saving a new Waypoint from NAV Compass**

1. While in the NAV compass screen, press the WPNT softkey to save the current coordinates as a new waypoint within the waypoint setup menu.
2. Use the keyboard to enter in the desired name for the new



Operation

waypoint and press the SAVE softkey to save the entry as a new navigation waypoint.

- **Navigate to a saved waypoint with the NAV compass**

1. The BlueBound 650 can plot any saved waypoint onto the NAV compass for navigation assistance while underway.
2. Enter the Waypoint directory through the Waypoint menu.
3. While in Waypoint Directory, select a saved waypoint from the list of current waypoints within the Navigation Waypoints list.
4. Press the NAV softkey to put that waypoint into the navigation compass and start a new waypoint route navigation.

Arrival Alarm

When the radio is navigating to a chosen waypoint within the NAV compass, Arrival alarm will sound an audible tone and display a message on screen once the destination has been reached if set to ON. Use the UP/DOWN arrow keys to set the arrival alarm either OFF or ON.

ATIS:

The ATIS section of the menu allows you to view your current ATIS number as well as turn ATIS ON or OFF.

ATIS Number

- Displays the current ATIS number that is entered into the radio. If no ATIS number has been entered into the radio, the display will show 9----- until an ATIS number is programmed into the radio.

ATIS ON/OFF

- Turning ATIS ON
 1. Press the UP/DOWN arrow keys to set ATIS ON or OFF for your current channel.
 2. Press the SELECT softkey to save your selection and return to the ATIS menu.

Note: While ATIS is enabled, the BlueBound 650 will be unable to use either the SCAN or Watch (Dual-Watch, Tri-Watch) functions until ATIS has been disabled.

ATIS ID Entry:

If No ATIS number has been programmed into the BlueBound 650, you can manually enter in an ATIS number.

- Press and hold the UP arrow & SQL key when powering on the radio to enter the ATIS entry screen.
- Use the arrow keys to enter in your ATIS number and press the CONFIRM softkey to save the entered ATIS number to the radio.

Note: Once an ATIS number has been entered into the radio, it cannot be changed without contacting Cobra customer service.

Bluetooth

The BlueBound 650 can pair wirelessly to a mobile phone to receive voice calls and pair wirelessly to a Bluetooth headset for hands free usage with the radio.

BLUETOOTH	
Pair Phone	
Pair Headset	
Bluetooth VOX	
VOX Level	
Wireless PTT	
Exit	
EXIT	ENTER



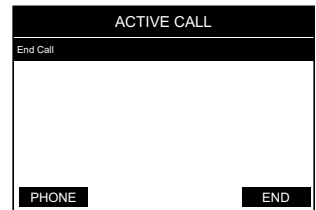
Operation

Pair Phone

1. Make sure your phone's Bluetooth is turned on.
2. Enter the pair phone menu section from the Bluetooth menu.
3. Choose the ON option and press the ENTER softkey to turn on Bluetooth pairing at the radio.
4. Open Bluetooth menu on your compatible mobile device. The BlueBound radio should appear in available devices as "BlueBound 650". Select the BlueBound 650 to initiate pairing.
5. Once the radio has been paired with your phone, you can answer incoming phone calls from the radio directly.

- Answering Phone Calls:

- When an incoming call is received by your phone, the radio will play your phone's ringtone through the radio's speaker and display a message on the radio's screen indicating there is an incoming phone call.
- Press the PHONE softkey to answer the call. At any time press the END softkey to terminate the phone call.
- Press and hold the PTT while speaking in the radio's microphone to communicate to the caller on the other end of the line. Release the PTT key while you are not directly speaking into the microphone.
- When your conversation has finished, press the END softkey to hang up the phone call and return to VHF standby mode.



- Redial Last Call:

- The BlueBound 650 can call back the last received call from the radio directly.
- Select the Redial Last Call menu option and press the ENTER softkey. The radio will initiate a call with the last phone number received.

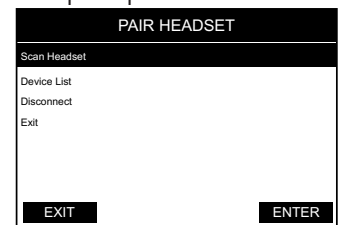
- Pair Headset:

The BlueBound 650 can also pair to a wireless headset for hands free communication while underway.

***Before attempting to pair to a wireless headset, make sure that the pair phone menu setting is set to OFF.

Pairing to a new headset

1. Initiate Bluetooth pairing mode on your headset.
2. Select the scan headset menu option on the BlueBound 650 and press the ENTER softkey. A status message will appear showing that the radio is searching for discoverable Bluetooth devices.
3. Select the associated Bluetooth device that displays on screen. A successful pairing message will display once you have connected.
4. While connected to a headset, disconnect at any time by selecting the disconnect menu option and pressing the ENTER softkey.



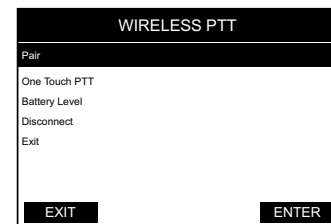
Connecting to a paired headset

1. Make sure your desired Bluetooth headset is powered on.
2. Choose the device list menu option and press the ENTER softkey.
3. Choose the desired headset you wish to connect to from the list of paired devices and press the SELECT softkey.
4. To delete any saved devices, press the DEL softkey.



Operation

5. While connected to a headset, disconnect at any time by selecting the disconnect menu option and pressing the ENTER softkey.
- **Wireless PTT:** The BlueBound 650 can also connect to Cobra's wireless PTT button (#CCBABTPT01). – Sold Separately
Connecting to a Cobra PTT button
 1. Initiate Bluetooth pairing mode on the Cobra PTT button.
 2. Select the pair option from the BlueBound 650 wireless PTT menu and press the ENTER softkey.
 3. The BlueBound 650 will initiate pairing with the wireless PTT button. If pairing is successful, a status message indicating successful pairing will display on screen. If pairing is unsuccessful, a failed pairing message will display on screen.
 4. To disconnect from the wireless PTT button, select the disconnect menu option within the wireless PTT section and press the ENTER softkey.
 - **One Touch PTT:** The one touch PTT option allows for transmit (Tx) to be kept open with one press of the PTT button rather than a press and hold of the PTT button.
 - When set to ON, pressing the PTT button will initiate transmit mode on the radio and continue transmitting until a second press of the PTT button.
 - When set to OFF, transmit mode will only continue while the PTT button is being pressed and held.
 - **Bluetooth VOX:** Bluetooth VOX gives the ability to initiate transmit mode by directly speaking instead of pressing the PTT key.
 1. From the Bluetooth menu, enter the Bluetooth VOX section and choose either ON or OFF and press the SELECT softkey.
 2. By default, Bluetooth VOX is set to OFF.
 3. When Bluetooth VOX is set to ON, speaking directly into your headset microphone will initiate a transmission by the radio without pressing the PTT button. The radio will cease transmitting when you have stopped talking.
 - **VOX Level:** You can adjust the VOX level on Bluetooth VOX to control the voice threshold level at which transmission activated. Setting the VOX level to a higher level increases the voice threshold level required for Bluetooth VOX to activate.



Digital Selective Calling (DSC)

Digital selective calling is a semi-automated system for establishing a radio call. It has been designed by the International Maritime Organization (IMO) as an international standard for VHF, MF, and HF calls and is part of the Global Maritime Distress and Safety System (GMDSS).

The DSC system allows mariners to instantly send a distress call with GPS position coordinates to the Coast Guard and other vessels within range of the transmission. DSC also allows mariners to initiate and receive distress, urgent, safety, routine, position request, position send, and group calls between vessels equipped with DSC Capable Radios.

A MMSI number must be entered into the BlueBound 650 to enable DSC functionality.



Maritime Mobile Service Identity (MMSI)

An MMSI is a nine (9) digit number used on a marine radio capable of using digital selective calling (DSC). It is used to selectively call other vessels or shore stations and is like a telephone number.

For your Cobra BlueBound radio to operate in the DSC mode, you must enter your MMSI number into the radio.

To obtain an MMSI number in the U.S.A, visit the following sources.

- U.S Power Squadron
- BoatUS: Cobra has partnered with BoatUS to provide all new owners of a BlueBound marine radio a 1-year membership with BoatUS. This membership allows for a free MMSI registration to your vessel if you do not already have one.

To obtain an MMSI number in Canada, visit the following source

- Industry Canada Spectrum Management Office

***Consult your country's telecommunications authority or ship registry to obtain an MMSI number outside of North America.**

Entering an MMSI Number: While there is no MMSI number entered in the BlueBound 650, it will prompt the user to enter in an MMSI number every time the radio is powered on.

1. Press the PROG softkey from the main VHF standby screen when the radio prompts the user to enter in their MMSI number on first power-up.
2. Use the keyboard to enter your 9-digit MMSI number and press the CONFIRM softkey.
3. The radio will prompt you to re-enter the MMSI number to ensure accuracy. Enter the correct MMSI number and press the CONFIRM softkey to save the MMSI number. If an incorrect MMSI number is entered, the MMSI number will not be saved.

***You can only enter in an MMSI number once on the radio. If an MMSI number has been saved on the radio and it needs to be changed to a new number, you must contact Cobra customer service to reset the radio's MMSI number.**

DSC Call Menu:

The BlueBound 650 has multiple different call methods that can be initiated with other stations. To access this menu and the different DSC call options, press the CALL softkey from the VHF standby screen.

Individual Call

The BlueBound 650 has two options for initiating an Individual Call. A call can either use manually entered information or utilize information from a saved record within the Individual Directory. If there are no saved records within the Individual Directory, only manual will be available as an option.

- Call a saved station from Individual Directory
 1. Select an eligible record from the list. The list will only show

MMSI ENTRY									
MMSI: -----									
1	2	3	4	5	6	7	8	9	0
←			DELETE				→		
EXIT CONFIRM SELECT									

INDIVIDUAL CALL	
VOICE CALL ON CHANNEL 06 ?	
Exit	ENTER



Operation

- records from the Individual Directory.
- 2. Select the desired call channel from the dropdown list and press the ENTER softkey.
- 3. Press the ENTER softkey to initiate the DSC Individual call.
- 4. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
- 5. If needed, press the REPEAT softkey to repeat the transmission.
- 6. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen channel.
- Call a manually entered station
 - 1. To call a chosen station manually, select the Manual option within the Individual Call menu.
 - 2. Enter in the station's MMSI number using the keyboard and press the CONFIRM softkey.
 - 3. Select the desired call channel from the dropdown list and press the ENTER softkey.
 - 4. Press the ENTER softkey to initiate the DSC individual call.
 - 5. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
 - 6. If needed, press the REPEAT softkey to repeat the transmission.
 - 7. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen channel.

Group Call

The group call function behaves in a similar manner to the individual call function. Like the individual call, there are two ways to initiate a group call, either manually or from a saved record. The group call list instead pulls from the Group MMSI list of saved records instead of the individual directory.

******The group MMSI is established by modifying the MMSI assigned to one (1) of the group members. The last digit of that member's MMSI number is dropped and a zero (0) is inserted at the beginning. For example, member MMSI number 366123456 becomes group MMSI number 036612345.

Group MMSI numbers can be entered and changed any number of times without the need to have your radio reset.

- Call a saved station from Group MMSI
 - 1. Select an eligible record from the list. The list will only show records from the Group MMSI directory.
 - 2. Select the desired call channel from the dropdown list and press the ENTER softkey.
 - 3. Press the ENTER softkey to initiate the DSC group call.
 - 4. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
 - 5. If needed, press the REPEAT softkey to repeat the transmission.
 - 6. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen channel.
- Call a manually entered Group
 - 1. To call a chosen group manually, select the Manual option within the Group Call menu.
 - 2. Enter the Group's MMSI number using the keyboard and press the CONFIRM softkey.
 - 3. Select the desired call channel from the dropdown list and press the ENTER softkey.



Operation

4. Press the ENTER softkey to initiate the DSC group call.
5. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
6. If needed, press the REPEAT softkey to repeat the transmission.
7. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen channel.

All Ships Call

All ships that have a DSC transceiver use Channel 70 as their listening channel. All Ships Call gives the ability to announce a message to all ships within range on DSC channel 70. There are two message types that are a part of an all ships call, Safety or Urgency.

- Initiating an All-Ships Call
 1. Select the All Ships Call option within the DSC Call Menu.
 2. Choose either Safety or Urgency for the nature of the all ships call.
 3. Select the desired call channel from the dropdown list of channels.
 4. Press the ENTER softkey to initiate the All-Ships Call.
 5. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
 6. If needed, press the REPEAT softkey to repeat the transmission.
 7. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen channel.

Note: Only use the All Ships Call for highly important transmissions (Safety/Urgency). For regular DSC calls, use either the individual or group call options listed earlier.

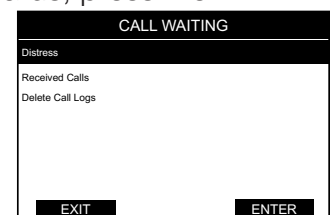
Position Request

The position request function enables the BlueBound 650 to obtain the position of a DSC station. This request can either be made manually or from a saved entry within the Individual Directory.

- Position Request from Individual Directory
 1. Select an eligible record from the list. The list will only show records from the Individual Directory.
 2. A message will appear with the chosen record from the Individual Directory list with the question to transmit or not.
 3. Press the ENTER softkey to initiate the position request with the selected station.
 4. A waiting for acknowledgement screen will display on the radio once the request has been transmitted out. To repeat the transmitted request, press the REPEAT softkey.
 5. When the request has been acknowledged, the radio will display an acknowledged status screen. Press the INFO key to display the request GPS coordinates.
 6. To save the GPS coordinates as a new waypoint to navigate towards, press the WPNT softkey.

Call Waiting

The Call Waiting section of the menu stores a record of all DSC distress and received calls. Entering each saved call record will show a brief description of the transmission received.





Operation

- Viewing a saved DSC call
 1. While on the Call Waiting menu, choose between either Distress or Received Calls to view a record of all saved calls in each respective category.
 2. Select a record to see additional details about the nature of the received call.
- Deleting DSC Call Records
 1. Select the Delete Call Logs options within the Call Waiting menu.
 2. Choose between either Distress or Received calls list of the DSC calls. A message will pop up asking if you would like to delete the associated call logs.
 3. Press the ENTER softkey to delete the currently selected call logs and return to the previous menu.

Test Call

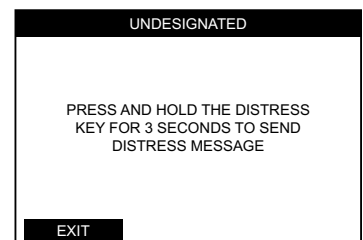
The test call function allows the user to confirm that the radio is fully operational and that the DSC call functions are working properly. The steps for initiating a Test Call are the same as with an Individual Call, except transmitted message indicate that it is a Test Call.

DSC Distress Call

The BlueBound 650 features a dedicated distress button for emergency transmissions to the Coast Guard and nearby stations. An MMSI number must be programmed into the radio for the DSC distress button to work.

Sending a DSC Distress Call

1. Press the DISTRESS button located on the side of the BlueBound 650 to bring up the nature of distress menu.
2. Choose the distress from the list that corresponds best to the current nature of distress, or undesignated if no other options are applicable.
3. Press the ENTER softkey to select the chosen distress and enter the distress standby menu.
4. Press and hold the distress key to initiate the distress call.
5. After transmitting, a screen will display a waiting for acknowledgement image along with a timer from when the transmission was sent. If necessary, you can repeat the transmission by pressing the RPT softkey.
6. Once the transmission has been acknowledged, the radio will show a confirmation screen along with a confirmation alarm.

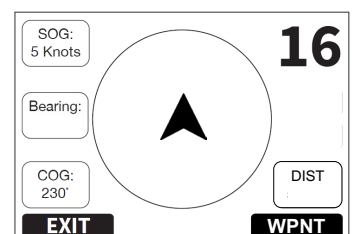


Navigation Compass (NAV)

The BlueBound 650 features a compass for additional navigational support while underway. This can be accessed from the VHF standby screen by pressing the NAV softkey. While in the compass view, your vessel's position will be plotted along with supplemental navigational information.

- Speed Over Ground (SOG)
- Course Over Ground (COG)

While in the compass screen, you can save your vessel's current position





as a new waypoint by pressing the WPNT softkey. Use the keyboard to adjust the waypoint name as needed.

Country Selection

The BlueBound 650 allows you to choose from a select number of specific countries of operation to access additional local channels for each respective country. By default, the radio is set to the standard International channel map and no additional local channels are active.

Selecting a local country

1. Press and hold the DOWN arrow & Rewind Say Again keys while powering on the radio to enter the country selection screen.
2. Choose your corresponding country from the list of countries provided and press the SELECT softkey to save your choice and return to the VHF Standby screen.
 - If your country is not listed, choose Other, or select the Default option to return the radio back to the Default international channel map.
3. If no action is taken by the user after 10 seconds, the radio will automatically return to VHF standby mode as default.

Note: For additional countries not listed on the radio, please contact your local Cobra dealer or distributor for additional channel programming support.

Standby, Receive and Transmit

Marine Standby and Receive (Rx) Mode

Marine Standby mode is the default mode for the radio whenever it is turned on. From this mode, you can change current settings with the different key functions that are active in Marine Standby mode. While in Marine Standby mode, the user will be able to transmit by pressing the Push to Talk (PTT) button. Users will hear messages on the selected channel(s) they are tuned to while in Marine Standby mode.



Transmit (Tx) Mode

Transmit (Tx) mode gives you the ability to interact with safety services, other vessels, and shore stations. When using this capability, be sure to follow the procedures and to observe the courtesies that govern its use. See the Appendix to help select the proper channel(s).



To Transmit a Message:

1. Check to see that your radio is set to a proper channel for the type of message you plan to send.
2. With the microphone about 2 inches from your mouth, press and hold the PTT button and speak into the microphone. The Transmit icon will appear on the LCD.
3. Release the PTT button when you are finished speaking. Your radio can only operate in either Transmit (Tx) or Receive (Rx) mode at any given time. You will not hear the response to your



message unless the PTT button is released. If the battery power icon begins blinking on the LCD when the PTT is pressed, the radio will not transmit.

Note: If the PTT button is held down for five minutes, the radio will automatically sound a series of beeps and cease transmitting to prevent unwanted signal generation and battery drain. As soon as the PTT button is released, it can be pressed again to resume transmission.

Radio Care

Very little maintenance is required to keep your Cobra marine VHF radio in good operating condition:

- Keep the radio clean by wiping with a soft cloth and mild detergent. Do not use solvents or harsh, abrasive cleaners that could damage the case or scratch the LCD screen.
- If the radio is exposed to salt water, wipe with a soft, moist cloth at least once a day to prevent buildup of salt deposits, which could interfere with button operation.
- If the radio will be stored for a long period, such as over the winter, remove the battery from the radio and store separately.

Troubleshooting

Problem	Possible Cause(s)	Solution(s)
No display on LCD when radio is powered on	Battery is exhausted	Recharge or replace battery
Lithium-ion battery runs down quickly	Battery is at the end of its life	Replace with new battery
Will transmit at 1 Watt, but not at 3 or 6 Watts	Battery is low Selected channel is limited to 1 Watt	Recharge or replace battery Switch to another channel
Will not transmit	Selected channel is limited to receive only	Switch to another channel
No response to button press	Key Lock is ON	Press and Hold the Key Lock button until the key lock icon disappears on the LCD



VHF Marine Radio Procedures

Maintain Your Watch

Whenever your boat is underway, your radio must be operational and tuned to Channel 16 unless being used for other communications.

Power

Try 1 watt first, if the station being called is within a few miles. If there is no answer, switch to 3 watts and call again. If necessary, increase to 6 watts of output power to maximize your calling distance. The lower wattage outputs will conserve your battery and minimize interference to other users.

Calling Coast Stations

Call a coast station on its assigned channel. You may use Channel 16 when you do not know the assigned channel.

Calling Other Vessels

Call other vessels on Channel 16 or on Channel 9 (Channel 9 is preferred for recreational vessel use). You may also call on ship-to-ship channels when you know that the vessel is listening on a ship-to-ship channel.

Initial Calling on Channel 16 or 9

The use of Channel 16 is permitted for making initial contact (hailing) another vessel. The limits on calling must be followed. As a reminder, Channel 16's most important function is for Emergency Messages. If for some reason, Channel 16 is congested, the use of Channel 9, especially in U.S. waters, may be used as the initial contact (hailing) channel for non-emergency communication.

Limits on Calling

You must not call the same station for more than 30 seconds at a time. If you do not get a reply, wait at least two minutes before calling again. After three calling periods, wait at least 15 minutes before calling again.

Change Channels

After contacting another station on a calling channel, change immediately to a channel designated for the type of message you want to send.

Station Identification

At both the beginning and at the end of your message, make sure to identify yourself by specifying your vessel name, state registration number.

Prohibited Communications

You **MUST NOT** transmit:

- False distress or emergency messages.
- Messages containing obscene, indecent, or profane language.
- General calls or signals on Channel 16 (excluding emergencies)
- When you are on land.



Voice Calling

You are required to listen to channel 16 while standing by. Channel 16 is the distress and safety channel used for establishing initial contact with another station and for emergency communication. The Coast Guard also monitors Channel 16 for safety purposes for everyone on the water.

Note: Channel 9 may be used by recreational vessels for general-purpose calling. This frequency should be used whenever possible to help relieve congestion on Channel 16. The Coast Guard generally does not make urgent marine information broadcasts or weather warnings on Channel 9. Boaters are still asked to “keep watch” on Channel 16 whenever the radio is turned on and not in use with another station.

To call another vessel or shore installation (e.g., lock or bridge tender):

- Make sure the radio is ON.
- Make sure you are in standby listening mode on Channel 16. Make sure channel 16 is not in use.
- When the channel is open (quiet), press the PTT button and call a vessel. Hold the radio several inches from your face and speak clearly and distinctly in a normal voice tone. Say “name or station being called,” “This is [your vessel name or call sign].”
- Once contact is made, you must leave Channel 16 and go to another working channel.
- If the other party does not respond, wait two minutes and repeat. You are permitted to attempt contact 3 times, two minutes apart. If you still have not made contact, wait 15 minutes before trying again.
- After communications are completed, each vessel must sign off with its call sign or vessel name and the word “out” and return to Channel 16.

For Example

The vessel Corsair is calling the vessel Vagabond:

Corsair: “Vagabond, this is Corsair. Over.”

Vagabond: “Please switch and answer on Channel 68 (or any proper working channel). Over.”

Corsair: “Switching to Channel 68. Over.”

Note: “Over and Out”

The most commonly misused procedure words are “over and out” within the same transmission. “Over” means you expect a reply. “Out” means you are finished and do not expect a reply.

Emergency Messages and Distress Procedure

The ability to summon assistance in an emergency is the primary reason for having a VHF marine radio. The marine environment is unforgiving and what may initially be a minor problem can rapidly develop into a situation beyond your control.

The Coast Guard monitors Channel 16, responds to all distress calls, and coordinates all search and rescue efforts. Depending on the availability of other capable vessels or commercial assistance operators in your vicinity, Coast Guard or Coast Guard Auxiliary craft may be dispatched.

In any event, communicate with the Coast Guard as soon as you experience difficulties and before your situation becomes an emergency. Use the emergency message procedures only after your situation has become grave or you are faced with sudden danger threatening life or property and requiring immediate help. Use Channel 16 to communicate your emergency message. Make sure you transmit on high power. If you are merely out of fuel, do not send an emergency message. Drop your anchor and call a friendly vessel or marina to bring the fuel you need or give you a tow.



Marine Emergency Signals

The three spoken international emergency signals are:

1. MAYDAY: The distress signal MAYDAY is used to indicate that a station is threatened by grave and imminent danger and requests immediate assistance.
2. PAN PAN: The urgency signal PAN PAN is used when the safety of the vessel or person is in jeopardy. (This signal is properly pronounced pahn pahn.)
3. SECURITE: The safety signal SECURITE is used for messages about the safety of navigation or important weather warnings. (This signal is properly pronounced see-cure-ee-tay.)

When using an international emergency signal, the appropriate signal is to be spoken three times prior to the message.

If You Hear a Distress Call

Give priority to any message beginning with one of these signals. ALL stations MUST remain silent on Channel 16 for the duration of the emergency unless the message relates directly to the emergency.

If you hear a distress message from a vessel, stand by your radio. If it is not answered, YOU should answer. If the distressed vessel is not nearby, wait a short time for others who may be closer to acknowledge. Even if you cannot render direct assistance, you may be able to relay the message for assistance.

Example Marine Distress Procedure

Speak slowly — clearly — calmly.

1. Make sure your radio is On.
2. Select Channel 16.
3. Press Talk button and say: "MAYDAY — MAYDAY — MAYDAY."
(Or "PAN PAN — PAN PAN — PAN PAN," or "SECURITE — SECURITE — SECURITE.")
4. Say: "THIS IS [your vessel name or call sign]," repeated three (3) times.
5. Say: "MAYDAY (or "PAN PAN" or "SECURITE") [your vessel name or call sign]."
6. Tell where you are: (what navigational aids or landmarks are nearby).
7. State the nature of your distress.
8. State the kind of assistance needed.
9. Give number of persons aboard and conditions of any injured.
10. Estimate present seaworthiness of your vessel.
11. Briefly describe your vessel (length, type, colour, hull).
12. Say: "I WILL BE LISTENING ON CHANNEL 16."
13. End message by saying: "THIS IS [your vessel name or call sign]. OVER."
14. Release Talk button and listen. Someone should answer. If not, repeat the call, beginning at step 3 above.



Warranty

For Example:

"Mayday — Mayday — Mayday"
"This is Corsair — Corsair — Corsair" [or "IL 1234 AB," repeated three times]
"Mayday Corsair (or IL 1234 AB)"
"Navy Pier bears 220 degrees magnetic — distance 5 miles"
"Struck submerged object and flooding — need pump and tow"
"Four (4) adults, three children aboard — no one injured"
"Estimate we will remain afloat one-half hour"
"Corsair (or IL 1234 AB) is 26 ft sloop with blue hull and tan deck house"
"I will be listening on Channel 16"
"This is Corsair (or IL 1234 AB)"
"Over"

Warranty Terms:

For products purchased directly through Cobra's EU website, please visit:

<https://eu.cobra.com/pages/warranty-info-and-terms> for additional warranty information.

Please contact your local dealer for warranty information. For warranty service you will need to provide proof of purchase from an approved dealer or retailer. Please note that if you purchased your product on the internet you will need to provide a receipt from the actual seller for verification as an approved retailer.

Disposal of Old Electrical or Electronics Equipment

This product may contain hazardous substances that could impact health and the environment if not disposed of properly.

The crossed out wheeled bin symbol indicates that the product should not be disposed of along with household waste. It should be handed over to an applicable collection point for the recycling of electrical equipment. By ensuring that this product is disposed of correctly you will help/prevent potential negative impact on the environment.

If you need more information on the collection, reuse and recycling systems, please contact your local civic office or the shop where it was originally purchased.



Specifications:

General	
Number of Channels	215
Channel Spacing	25kHz
Modulation	FM 16KOF3E, DSC 16K0G2B
Input Voltage	7.4 V Nominal
Battery Life: 5% TX, 5% RX, 90% Standby	8 Hours (High Power) 12 Hours (Low Power)
Temperature Range	-15 °C to +55 °C
Radio Dimensions	267mm H x 70mm W x 57mm D
Radio Weight	340g
Receiver	
Frequency Range	156.050 to 163.275 MHz
Receiver Type	FM – Double Conversion Super-Heterodyne
Sensitivity: 12 dB Sinad	-120 dBm
Adjacent Channel Selectivity	-70 dB
Intermodulation and Rejection	-70 dB
Spurious and Image Rejection	-60 dB
AF Output	700 mW @ 8 Ohms
Transmitter	
Frequency Range (Tx)	156.025 - 157.425 Mhz
RF Output Power	1, 3, 6 Watts max
Spurious Emissions	-55 dB
Microphone Type	Electret
Frequency Stability	+/-5 ppm
FM Hum and Noise	40 dB
GPS	
Receiver	56 Channels
Hot: Nominal: < 1 second, Limit +/- 5 seconds Cold: Nominal: 30 seconds, Limit +/- 10 seconds	
Antenna Type	Internal Patch Antenna
GPS receiver first lock sensitivity	-148 dBm
GPS receiver tracking sensitivity	- 165 dBm
Differential System Compatibility	Yes
Bluetooth	
Classifications	Standard and BLE
Version	5.2
Range	10 Meters



VHF Marine Channel Assignments

Three sets of VHF channels have been established for marine use in the U.S.A., Canada and the rest of the world (International). Many of the channels are the same for all three maps, but there are important distinctions (see table on the following pages). Your radio has all three maps built into it and will operate correctly in whichever area you choose.

The following is a brief outline of the channel assignments in the U.S.A. Channel Map.

Channel Assignments (English)

Distress, Safety, and Calling

Channel 16

Getting the attention of another station (calling) or in emergencies (distress and safety).

Calling

Channel 9

General-purpose (non-emergency) calling by non-commercial vessels. Recreational boaters are urged to use this channel to reduce congestion on Channel 16

Intership Safety

Channel 6

Ship-to-ship safety messages and for search and rescue messages to Coast Guard ships and aircraft.

Coast Guard Liaison

Channel 22A

To talk to the Coast Guard, Canadian Coast Guard (non-emergency) after making contact on Channel 16.

Non-Commercial

Channels 67*, 68*, 69, 71, 72, 78A, 79A*, 80A*

Working channels for small vessels. Messages must be about needs of the vessel, such as fishing reports, berthing and rendezvous. Use Channel 72 only for ship-to-ship messages.

Commercial

Channels 1A, 7A, 8, 9, 10, 11, 18A, 19A, 63A, 67, 72, 79A, 80A, 88A*

Working channels for working ships only. Messages must be about business or needs of the ship. Use Channels 8, 67, 72 and 88A only for ship-to-ship messages.



Channel Assignments (English)

Public Correspondence (Marine Operator)

Channels 84, 85, 86, 87, 87A, 88*

For calls to marine operators at public coast stations. You can make and receive telephone calls through these stations.

Port Operations

Channels 1A*, 5A*, 12*, 14*, 20A, 63A*, 65A, 66A, 73, 74, 75, 76, 77*

Used for directing the movement of ships in or near ports, locks or waterways. Messages must be about operational handling, movement and safety of ships.

Navigational

Channels 13, 67

Channels are available to all vessels. Messages must be about navigation, including passing or meeting other vessels. These are also the main working channels for most locks and drawbridges. You must keep your messages short and power output at no more than 1 watt.

Maritime Control

Channel 17

For talking to vessels and coast stations operated by state or local governments. Messages must be about regulation and control, boating activities, or assistance.

Digital Selective Calling

Channel 70

This channel is set aside for distress, safety and general calling using only digital selective calling techniques. Voice communication is prohibited; your radio cannot transmit voice messages on this channel.

Note: These channels are restricted to the listed uses in certain parts of the country or for certain types of users only. Consult FCC rules or a knowledgeable radio operator before using them.



Channel Number	Channel Map			Frequency		Power Limits	Channel Use (English)
	USA	Int'l	Canada	Transmit	Receive		
01		●	●	156.050	160.650		Public Correspondence (Marine Operator)
01A/1001	●			156.050	156.050		Port Operations and Commercial, VTS in selected areas
02		●	●	156.100	160.700		Public Correspondence (Marine Operator)
03		●	●	156.150	160.750		Public Correspondence (Marine Operator)
04		●		156.200	160.800		Public Correspondence (Marine Operator) Port Operations, Ship Movement
1004			●	156.200	156.200		West Coast (Coast Guard Only); East Coast (Commercial Fishing) ₁
05		●		156.250	160.850		Public Correspondence (Marine Operator) Port Operations, Ship Movement
05A/1005	●		●	156.250	156.250		Port Operations, VTS in selected areas
06	●	●	●	156.300	156.300		Intership Safety
07		●		156.350	160.950		Public Correspondence (Marine Operator) Port Operations, Ship Movement
07A/1007	●		●	156.350	156.350		Commercial
08	●	●	●	156.400	156.400		Commercial (Intership Only)
09	●	●	●	156.450	156.450		Boater Calling Channel, Non-Commercial (Recreational)
10	●	●	●	156.500	156.500		Commercial
11	●	●	●	156.550	156.550		Commercial, VTS in selected areas
12	●	●	●	156.600	156.600		Port Operations VTS in selected areas
13	●	●	●	156.650	156.650	1 Watt USA	Intership Navigation Safety (Bridge-to-Bridge). In U.S. waters, large vessels maintain a listening watch on this channel.
14	●	●	●	156.700	156.700		Post Operations, VTS in selected area
15	●			Rx Only	156.750		Environmental (Receive Only).
15		●	●	156.750	156.750	1 Watt	Canada (EPIRB Buoys Only); International (On-Board Communication)
16	●	●	●	156.800	156.800		International Distress, Safety and Calling
17	●	●	●	156.850	156.850	1 Watt	State Controlled (U.S.A. Only)



Channel Number	Channel Map			Frequency			Channel Use (English)
	USA	Int'l	Canada	Transmit	Receive		
18		●		156.900	161.500		Port Operations, Ship Movement
18A/1018	●		●	156.900	156.900		Commercial
19		●		156.950	161.550		Port Operations, Ship Movement
19A/1019	●		●	156.950	156.950		Commercial
1019		●		156.950	156.950		Port Operations
2019		●		161.550	161.550		Port Operations
20	●	●	●	157.000	161.600	1 Watt CAN	Canada (Coast Guard Only); International (Port Operations, Ship Movement)
20A/1020	●	●		157.000	157.000		Port Operations
2020		●		161.600	161.600		Port Operations
21		●		157.050	161.650		Port Operations; Ship Movement
21A/1021	●		●	157.050	157.050		U.S. (Government Only); Canada (Coast Guard Only)
2021			●	Rx Only	161.650		Coast Guard Only - Weather Broadcasts
22		●		157.100	161.700		Port Operations, Ship Movement
22A/1022	●		●	157.100	157.100		U.S. and Canadian Coast Guard Liaison and Maritime Safety Information Broadcasts that are announced on Channel 16
23		●	●	157.150	161.750		Public Correspondence (Marine Operator)
23A/1023	●			157.150	157.150		Coast Guard Only
2023			●	Rx Only	161.750		Coast Guard Only - Weather Broadcasts
24	●	●	●	157.200	161.800		Public Correspondence (Marine Operator)
25	●	●	●	157.250	161.850		Public Correspondence (Marine Operator)
2025			●	Rx Only	161.850		Safety: Continuous Marine Broadcast (CMB) service by MCTS Canada
26	●	●	●	157.300	161.900		Public Correspondence (Marine Operator)
27	●	●	●	157.350	161.950		Public Correspondence (Marine Operator)
28	●	●	●	157.400	162.000		Public Correspondence (Marine Operator)



Operation

Channel Number	Channel Map			Frequency			Channel Use (English)
	USA	Int'l	Canada	Transmit	Receive		
1028		●		157.400	157.400		Port Operations
2028			●	Rx Only	162.000		Safety: Continuous Marine Broadcast (CMB) service by MCTS Canada
60		●	●	156.025	160.625		Public Correspondence (Marine Operator)
61		●		156.075	160.675		Public Correspondence (Marine Operator) Port Operation, Ship Movement
1061			●	156.075	156.075		Canada (Coast Guard Only); West Coast (Coast Guard Only); East Coast (Commercial Fishing)
62		●		156.125	160.725		Public Correspondence (Marine Operator) Port Operation, Ship Movement
1062			●	156.125	156.125		West Coast (Coast Guard Only) East Coast (Commercial Fishing)
63		●		156.175	160.775		Public Correspondence (Marine Operator) Port Operation, Ship Movement
63A/1063	●		●	156.175	156.175		Post Operations and Commercial, VTS in selected areas, Canada Tow Boats-BCC
64		●	●	156.225	160.825		Public Correspondence (Marine Operator) Port Operation, Ship Movement
1064			●	156.225	156.225		U.S. (Government Only); Canada (Commercial Fishing)
65		●		156.275	160.875		Public Correspondence (Marine Operator) Port Operation, Ship Movement
65A/1065	●		●	156.275	156.275		Port Operations
66		●		156.325	160.925		Public Correspondence (Marine Operator), Port Operations, Ship Movement
66A/1066	●		●	156.325	156.325	1 Watt CAN	Port Operations
67	●	●	●	156.375	156.375		U.S. (Commercial). Used for bridge-to-bridge communications in lower Mississippi River (Intership Only); Canada (Commercial Fishing), S&R
68	●	●	●	156.425	156.425		Non-Commercial (Recreational)
69	●	●	●	156.475	156.475		U.S. (Non-Commercial, Recreational); Canada (Commercial Fishing Only); International (Port Operations, Ship Movement)
70	●	●	●	Rx Only	156.525		Digital Selective Calling (Voice communications not allowed)
71	●	●	●	156.575	156.575	1 Watt USA	U.S. and Canada (Non-Commercial, Recreational); International (Port Operations, Ship Movement)
72	●	●	●	156.625	156.625		Non-Commercial (Intership Only)



Channel Map				Frequency			
Channel Number	USA	Int'l	Canada	Transmit	Receive		Channel Use (English)
73	●	●	●	156.675	156.675		U.S. (Non-Commercial, Recreational); Canada (Commercial Fishing Only); International (Port Operations, Ship Movement)
74	●	●	●	156.725	156.725		U.S. (Non-Commercial, Recreational); Canada (Commercial Fishing Only); International (Port Operations, Ship Movement)
75	●	●	●	156.775	156.775	1 Watt	Port Operations (Intership Only)
76	●	●	●	156.825	156.825	1 Watt	Port Operations (Intership Only)
77	●	●	●	156.875	156.875	1 Watt USA	Port Operations (Intership Only) Restricted to communications with pilots for movement and docking of ships.
78		●		156.925	161.525		Public Correspondence (Marine Operator)
78A/1078	●		●	156.925	156.925		Non-Commercial (Recreational)
1078		●		156.925	156.925		Port Operations
2078		●		161.525	161.525		Port Operations
79		●		156.975	161.575		Port Operations, Ship Movement
79A/1079	●		●	156.975	156.975		Commercial (Also Non-Commercial only in Great Lakes)
1079		●		156.975	156.975		Port Operations
2079		●		161.575	161.575		Port Operations
80		●		157.025	161.625		Port Operations, Ship Movement
80A/1080	●		●	157.025	157.025		Commercial (Also Non-Commercial only in Great Lakes)
81		●		157.075	161.675		Port Operations, Ship Movement
81A/1081	●		●	157.075	157.075		U.S. (Government Only; Environmental Protection Operations)
82		●		157.125	161.725		Public Correspondence (Marine Operator), Port Operation, Ship Movement
82A/1082	●		●	157.125	157.125		U.S. (Government Only); Canada (Coast Guard Only)
83		●		157.175	161.775		Port Operations, Ship Movement
83A/1083	●		●	157.175	157.175		(Coast Guard Only) (Coast Guard Only)
2083			●	RX only	161.775		Coast Guard Only – Weather Broadcasts



Channel Map				Frequency			
Channel Number	USA	Int'l	Canada	Transmit	Receive		Channel Use (English)
84	●	●	●	157.225	161.825		Public Correspondence (Marine Operator)
85	●	●	●	157.275	161.875		Public Correspondence (Marine Operator)
86	●	●	●	157.325	161.925		Public Correspondence (Marine Operator)
87	●	●	●	157.375	157.375		Public Correspondence (Marine Operator)
88	●	●	●	157.425	157.425		U.S. (Commercial). Port Operations and VTS (International & Canada).
88A/1088	●			157.425	157.425		Commercial Intership only

VHF Marine Channel Assignments (English)

NOTE: Many of the plain-numbered channels, such as 01, 02 and 03, transmit and receive on different frequencies. This is termed duplex operation. Some other plain-numbered channels (including 4 digit channels) and all of the A channels, such as 01A, 03A and 04A, transmit and receive on a single frequency, which is termed simplex operation. Your radio automatically adjusts to these conditions. This radio includes new four digit channels to be compliant with the latest and future regulations.

Additional VHF Channel Assignments

Channel Designator	Country	Frequency (Tx)	Frequency (Rx)	Channel Use
M1	UK	157.850	157.850	Private
M2	UK	161.425	161.425	Private
C0	UK	156.000	160.600	Coast Guard
L1	Denmark	155.500	155.500	Private
L2	Denmark	155.525	155.525	Private
F1	Denmark	155.625	155.625	Private
F2	Denmark	155.775	155.775	Private
F3	Denmark	155.825	155.825	Private
L1	Finland/Norway/Sweden	155.500	155.500	Private
L2	Finland/Norway/Sweden	155.525	155.525	Private
L3	Finland/Norway/Sweden	155.650	155.650	Private
F1	Finland/Norway/Sweden	155.625	155.625	Private



Channel Designator	Country	Frequency (Tx)	Frequency (Rx)	Channel Use
F2	Finland/Norway/ Sweden	155.775	155.775	Private
F3	Finland/Norway/ Sweden	155.825	155.825	Private
31	Netherlands	157.550	162.150	Private
37	Netherlands	157.850	157.850	Private
31	Belgium	157.550	162.150	Private
96	Belgium	162.425	162.425	Private
A0	Italy	157.425	157.425	Coast Guard
A1	Italy	157.450	157.450	Coast Guard
A2	Italy	157.475	157.475	Coast Guard
A3	Italy	157.500	157.500	Coast Guard
A4	Italy	157.525	157.525	Coast Guard
A5	Italy	157.550	157.550	Coast Guard
A6	Italy	157.575	157.575	Coast Guard
C0	Italy	155.450	155.450	Coast Guard
C1	Italy	155.500	155.500	Coast Guard
C2	Italy	155.550	155.550	Coast Guard
C3	Italy	155.650	155.650	Coast Guard
C4	Italy	155.750	155.750	Coast Guard
C5	Italy	155.850	155.850	Coast Guard
C6	Italy	155.900	155.900	Coast Guard
C7	Italy	155.925	155.925	Coast Guard
C8	Italy	155.950	155.950	Coast Guard
C9	Italy	155.975	155.975	Coast Guard
C1	Iceland SAR	158.100	162.700	Coast Guard



C2	Iceland SAR	158.075	162.675	Coast Guard
C3	Iceland SAR	158.150	162.750	Coast Guard
C4	Iceland SAR	158.175	162.775	Coast Guard
C5	Iceland SAR	157.975	157.975	Coast Guard
C6	Iceland SAR	157.775	157.775	Coast Guard
C7	Iceland SAR	157.725	157.725	Coast Guard
C8	Iceland SAR	157.650	157.650	Coast Guard
C9	Iceland SAR	158.200	162.800	Coast Guard
A7	Iceland SAR	158.225	162.825	Coast Guard



Declaration of Conformity

EN (English)

Hereby, Cobra Electronics Europe, Ltd. declares that the radio equipment type VHF Marine Radio is in compliance with Directive 2014/53/EU.

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

<http://www.eu.cobra.com>

ES (Spanish)

Por la presente, Cobra Electronics Europe, Ltd. declara que el tipo de equipo radioeléctrico VHF Marine Radio es conforme con la Directiva 2014/53/UE.

El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente:

<http://www.eu.cobra.com>

DA (Danish)

Hermed erklærer Cobra Electronics Europe, Ltd., at radioudstyrstypen VHF Marine Radio er i overensstemmelse med direktiv 2014/53/EU.

EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse:

<http://www.eu.cobra.com>

DE (German)

Hiermit erklärt Cobra Electronics Europe, Ltd., dass der Funkanlagentyp VHF Marine Radio der Richtlinie 2014/53/EU entspricht.

Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:

<http://www.eu.cobra.com>

BG (Bulgarian)

С настоящото Cobra Electronics Europe, Ltd. декларира, че този тип радиосъоръжение VHF Marine Radio е в съответствие с Директива 2014/53/ЕС.

Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес:

<http://www.eu.cobra.com>

CS (Czech)

Tímto Cobra Electronics Europe, Ltd. prohlašuje, že typ rádiového zařízení VHF Marine Radio je v souladu se směrnicí 2014/53/EU.

Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese:

<http://www.eu.cobra.com>

ET (Estonian)

Käesolevaga deklareerib Cobra Electronics Europe, Ltd., et käesolev raadioseadme tüüp VHF Marine Radio vastab direktiivi 2014/53/EL nõuetele.

ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil:

<http://www.eu.cobra.com>

EL (Greek)

Με την παρούσα ο/η Cobra Electronics Europe, Ltd., δηλώνει ότι ο ραδιοεξοπλισμός VHF Marine Radio πληροί την οδηγία 2014/53/ΕΕ.

Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο:

<http://www.eu.cobra.com>

FR (French)

Le soussigné, Cobra Electronics Europe, Ltd., déclare que l'équipement radioélectrique du type VHF Marine Radio est conforme à la directive 2014/53/UE.

Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:



Operation

<http://www.eu.cobra.com>

HR (Croatian)

Cobra Electronics Europe, Ltd. ovime izjavljuje da je radijska oprema tipa VHF Marine Radio u skladu s Direktivom 2014/53/EU.

Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi:

<http://www.eu.cobra.com>

IT (Italian)

Il fabbricante, Cobra Electronics Europe, Ltd., dichiara che il tipo di apparecchiatura radio VHF Marine Radio è conforme alla direttiva 2014/53/UE.

Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet:

<http://www.eu.cobra.com>

LV (Latvian)

Ar šo Cobra Electronics Europe, Ltd. deklarē, ka radioiekārta VHF Marine Radio atbilst Direktīvai 2014/53/ES.

Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē:

<http://www.eu.cobra.com>

LT (Lithuanian)

Aš, Cobra Electronics Europe, Ltd., patvirtinu, kad radijo įrenginių tipas VHF Marine Radio atitinka Direktyvą 2014/53/ES.

Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu:

<http://www.eu.cobra.com>

HU (Hungarian)

Cobra Electronics Europe, Ltd. igazolja, hogy a VHF Marine Radio típusú rádióberendezés megfelel a 2014/53/EU irányelvnek.

Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen:

<http://www.eu.cobra.com>

MT (Maltese)

B'dan, Cobra Electronics Europe, Ltd., niddikjara li dan it-tip ta' tagħmir tar-radju VHF Marine Radio huwa konformi mad-Direttiva 2014/53/UE.

It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej:

<http://www.eu.cobra.com>

NL (Dutch)

Hierbij verklaar ik, Cobra Electronics Europe, Ltd., dat het type radioapparatuur VHF Marine Radio conform is met Richtlijn 2014/53/EU.

De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres:

<http://www.eu.cobra.com>

PL (Polish)

Cobra Electronics Europe, Ltd. niniejszym oświadcza, że typ urządzenia radiowego VHF Marine Radio jest zgodny z dyrektywą 2014/53/UE.

Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym:

<http://www.eu.cobra.com>

PT (Portuguese)

O(a) abaixo assinado(a) Cobra Electronics Europe, Ltd. declara que o presente tipo de equipamento de rádio VHF Marine Radio está em conformidade com a Diretiva 2014/53/UE.

O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet:



<http://www.eu.cobra.com>

RO (Romanian)

Prin prezenta, Cobra Electronics Europe, Ltd. declară că tipul de echipamente radio VHF Marine Radio este în conformitate cu Directiva 2014/53/UE.

Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet:

<http://www.eu.cobra.com>

SK (Slovak)

Cobra Electronics Europe, Ltd. týmto vyhlasuje, že rádiové zariadenie typu VHF Marine Radio je v súlade so smernicou 2014/53/EÚ.

Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese:

<http://www.eu.cobra.com>

SL (Slovenian)

Cobra Electronics Europe, Ltd. potrjuje, da je tip radijske opreme VHF Marine Radio skladen z Direktivo 2014/53/EU.

Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu:

<http://www.eu.cobra.com>

FI (Finnish)

Cobra Electronics Europe, Ltd. vakuuttaa, että radiolaitetyyppi VHF Marine Radio on direktiivin 2014/53/EU mukainen.

EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa:

<http://www.eu.cobra.com>

SV (Swedish)

Härmed försäkrar Cobra Electronics Europe, Ltd. att denna typ av radioutrustning VHF Marine Radio överensstämmer med direktiv 2014/53/EU.

Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress:

<http://www.eu.cobra.com>

Declaration of Conformity Declaration of Conformity