

WELCOME

Thank you for purchasing the BridgeCom Echo GMRS two-way radio. The goal of the BridgeCom Echo is to provide a cost- effective. feature rich, easy-to-use radio. This owner's manual will acquaint you with the features and operation of the BridgeCom Echo. Every effort has been made in the preparation of this manual in order to properly operate the radio before use.



STOP: This radio requires an FCC GMRS license to operate. To obtain a GMRS license go https://www.fcc.gov/fcc-form-605 Scroll to General Mobile Radio Service (GMRS) (47 CFR Part 95) click on FCC 605 Main Form to download and follow the instructions on the form.

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Reminder In order to avoid failure, please use supplied charger for charging of your BridgeCom Echo GMRS two- way radio.

SAFETY INFORMATION

As a user of this radio be fully aware of hazards to RF exposure.

The Federal Communications Commission (FCC), with its action in General Docket 93 -62, November 7, 1997, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health act (OSHA) and FCC limits. DO NOT transmit for more than a 50% duty cycle (example: 1 min. transmitting, 1 min. receiving or in standby) transmitting more than 50% of the time may cause FCC RF exposure

The radio is transmitting when the red LED is illuminated, hold the radio approximately 1 inch (2.5 cm) away from the MIC located on the front of the radio.

a violation

compliance requirements to be exceeded.

The above operating conditions are required for meeting FCC RF exposure compliance, failure to follow these restrictions are considered

▲ SAFETY WARNING

- Do not transmit the radio with a damaged antenna or touch the antenna while transmitting. Strong electromagnetic waves are emitted from the radio which may damage
- the radio or cause an RF burn to your skin. •Do not use non-approved accessories with your radio. Unauthorized accessories may create unauthorized RF emissions or cause damage to the radio or may result in illegal operation •Do not disassemble or modify the radio, doing
- so will void the warranty and may result in illegal operation. Do not leave the radio in direct sunlight or
- around excessive heat, doing so may cause the battery to explode or catch fire. . Do not use radio if it has been immersed in
- water an electronic shock may occur or permanent damage may occur to the radio.

ACCESSORIES













American Standard

CH 02 462,5875 CH 03 462.6125

TTX/RX Operating Channel Frequencies

CH 01 462,5625

CH 07 462,7125

CH 08 467.5625

CH 09 467 5875

CH 10 467.6125

CH 11 467.6375

CH 12 467 6625

CH13 467.6875

CH 14 467 7125

CH 15 462 550

CH 16 462.575

CH 17 462 600

CH 18 462.625

CH 19 462.650

CH 20 462.675

CH 21 462.700

CH 22 462.725

Repeater Channels

CH 23 462,550 467,550

CH 04 462.6375 PL/CTCSS Default tone 67.0Hz CH 05 462,6625 PL/CTCSS Default tone 67.0Hz CH 06 462 6875 PL/CTCSS Default tone 67.0Hz

Channels 8 - 14 are fixed low power .5W only.

Instruction

Radio Programming Cable

GETTING ACQUAINTED Your BridgeCom Echo GMRS two-way radio is pre-programmed for 30 operating channels indicated with a voice prompt per channel selected. Once you have downloaded the programming software, using the provided programming cable you can customize your radios TX power, CTCSS and DCS tones, add and delete to your scan list. Program your side key, top button as well as other features

PL/CTCSS Default tone 67.0Hz PL/CTCSS Default tone 67.0Hz PL/CTCSS Default tone 67.0Hz

PL/CTCSS Default tone 141.3Hz

CH 25 462.600 467.600 PL/CTCSS Default tone 141.3Hz

CH 26 462.625 467.625 PL/CTCSS Default tone 141.3Hz

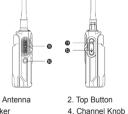
CH 27 462.650 467.650 PL/CTCSS Default tone 141.3Hz

CH 28 462 675 467 675 PL/CTCSS Default tone 141 3Hz

CH 29 462.700 467.700 PL/CTCSS Default tone 141.3Hz

CH 30 462.725 467.725 PL/CTCSS Default tone 141.3Hz

PL/CTCSS Default tone 67.0Hz PL/CTCSS Default tone 67 0Hz PL/CTCSS Default tone 67.0Hz PL/CTCSS Default tone 67.0Hz



7.Microphone

9. Push to Talk (PTT)

11. Earphone Interface

- 1. Fixed Antenna
- Speaker
- 5. Volume/Power Switch
 - 6. Indicator Light
 - 8. Battery
 - 10. Side Key

 - 12. Microphone Interface

I FD Indicator

A Green light indicates radio is receiving. A Red light indicates radio is transmitting. The green light flashes while waiting for activity during scan.

Controls, Indicators and Features

 Channel Knob Continuous rotating for selection of channels 1-30, channels can be selected by rotating the channel selector knob either clockwise or counter-clockwise. A voice prompt indicates the selected channel

Power Switch and Volume Control

clockwise increases volume, rotating counter-

Rotating the control knob clockwise will power on the radio, rotating the control knob counterclockwise will turn off the radio. Once powered on the radio will announce the current channel selected. Rotating the volume control knob

clockwise decreases the volume.

Monitor

Always monitor the channel you intend to communicate before transmission. Press the

monitor key on the side of the radio and monitor

for channel activity. If no voice communication

is heard the channel is clear for transmission. To begin a transmission center the microphone approximately 1 inch from your mouth push and do not respond radio will resume scanning when hold the PTT switch located on the side of the

If programmed with your programming software this feature will prevent a transmission when the selected channel is busy either by carrier or tone ·High /Low Power Setting

·Busy Channel Lockout

Radio default setting is per operating frequ-You can switch power by PC programming software

•15-Wide/Narrow Band Selection Fixed per operating frequency

You can enable or disable VOX with your PC programming software. With the VOX function is active, when talking into the microphone your voice activates the transmitter. When using a headset, adjust the VOX level to an appropriate level. If the microphone is too sensitive noise will activate the transmitter: if the microphone is not sensitive enough, your voice will not activate transmitter

Scanning allows the radio to step through the channels that have been added to your scan list. listening for a conversation. Once conversation is heard the radio will stop on that channel to allow a transmission back on that channel. If you

the timer expires.

radio and begin speaking clearly into the microphone.

Once you have completed your transmission

The purpose of squelch is to mute the speaker

white noise when no signals are present. Your

radio has been preset for optimal squelch function

Using the programmer, you can customize your

squelch sensitivity setting, the lower the setting the

more sensitive your radio is picking up a weak

squelch with a stronger signal.

signal, setting a higher the number will open the

This function can be used to limit the time a user

can continuously transmit on a channel for extended

amounts of time. This feature is also useful if for

some reason your radio is stuck in the transmit

mode. If your radio continues to transmit over the

limit time (set by the programming software), the

radio stops transmitting and sounds a warning. To

stop the warning sound, release the PTT and the

radio will revert back to receive state. This feature

can be programmed using the programming

release the PTT and wait for a response.

·Squelch

 CTCSS/DCS Privacy Tones CTCSS and DCS privacy tones can be customized using your programming software. When a channel is programmed with CTCSS or DCS, squelch will

Troubleshooting Symptom

Unable to speak to

other users

Hearing other

Try This Radio will not power The battery may need to be charged or renewed. The battery may have reached its end of life cycle. Replace with a new battery. Only dispose of batteries at a recycle center being fully charged. DO NOT dispose in the trash.

Verify the frequency and

or the tone settings you

are using are the same as

other users or the repeater

Verify you are transmitting

within effective range of

Program privacy tones or

a user or a repeater

If programmed, pressing the alarm button on the top of the radio will send out the alarm sound. A press/release of PTT, turns off

Battery Save

alarm.

stepping over other users.

Local Alarm Function

If enabled with your programming software this

feature allow less drain on your battery allowing

for longer daily operating periods. This feature

does not prevent your battery from aging.

only open when the tone signal matches (De-

codes)the received CTCSS or DCS tone. If your

radio receives different tones other than those

programmed the squelch will not be open and

is indicated by a green LED with no speaker

audio, observe the LED is off before attempting

to transmit to avoid talking over another user

on the same frequency. Using the monitor fu-

nction will open the squelch allowing you to li-

sten or verify the conversation has ended. The

Busy Channel Lockout feature can be used in

conjunction with privacy tones to keep from

program different privacy conversations tones on that channel. on a channel

Either charge or replace with a fully charged battery.

Possibly damage to the battery may occur if continued use without charging.

WARRANTY AND SERVICE Limited Warranty This product is warranted by BridgeCom Systems. Inc. to be free of defects

in materials and workmanship for a period of one year from the date of purchase. If a defective part causes this product to operate improperly during the one-year warranty period, we will service it to the original owner free of charge if shipped to BridgeCom Systems at the owner's expense. This warranty does not apply to any parts damaged due to improper use or violation of instructions. It does not extend to damage incurred by misuse or abuse, unauthorized modifications, natural causes such as lightning fire, floods, and other such catastrophes; nor to damage caused by environmental extremes. such as power surges and/or transients, theft. or accidents. All warranties must be performed at BridgeCom Systems, Inc. No credit will be given for unauthorized repair work attempted by the customer, BridgeCom Systems, Inc. will repair or replace the equipment and return to the customer Equipment returned for repair must have a

freight pre-paid, within the continental United States. Equipment found not to be defective will be returned at the customer's expense, and it will include the cost to ship, test, and return the equipment. return merchandise authorization (RMA) number.

To obtain an RMA contact our Technical Support

Department at (636)-205-1736 or email techsupport

THE GRANTEE IS NOT RESPONSIBLE FOR Systems could void the user's authorization to ANY CHANGES OR MODIFICATIONS NOT operate this device. EXPRESSLY APPROVED BY THE PARTY

BridgeCom Systems, Inc. Attn: Repair 113 South Bridge Street Smithville, MO 64089 Out of warranty repairs and service charges are billed at the current hourly rate plus parts. PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE This document contains information proprietary to Bridge Embedded Systems, Inc. and BridgeCom Systems. Inc. Its contents may not be reproduced, in whole or in part, without express written permission from either Bridge Embedded Systems, Inc. or BridgeCom Systems, Inc. The information is provided "AS IS" without warranty of any kind, either expressed or

BridgeCom Systems, Inc. does not assume any liability for damages. Technical information and specifications in this document are subject to change without notice. Changes or modifications to this device not expressly approved by BridgeCom

@BridgeComSystems.com. All returned equipment

must have the RMA number listed on the outside

of the shipping container. Ship all returns to:

FCC PART 15.21 WARNING STATEMENT

FCC STATEMENTS WARNING AND

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

and (2) this device must accept any interference

including received interference that may cause

undesired operation. WARNING: Modification of this

device to receive cellular radiotelephone service

signals is prohibited under FCC rules and Federal

RESPONSIBLE FOR COMPLIANCE, SUCH

MODIFICATIONS COULD VOID THE USER'S

AUTHORITY TO OPERATE THE EQUIPMENT.

COMPLIANCE STATEMENT: