

# USER GUIDE



DIGITAL

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## Unpack and Check

Before using the Lunchbox, we recommend that you check the items listed below. If any damage has occurred during shipment, please contact your local dealer.

- LUNCHBOX REPEATER (Waterproof case, Radio, Battery).
- POWER CABLE with Transformer.
- ANTENNA (Magnetic mount base with ten foot coaxial cable and six inch whip antenna).



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So now you are almost ready to use your repeater.

Just have an authorized dealer program it to match the frequencies of whatever channel you want your radios to "repeat" on.

The Lunchbox provides 8 watts of power (double what most handheld radios offer), and uses auto-switching technology! This ensures instant communication without delay, and without the need to reprogram any of your radios to use a repeater. Thank you and enjoy!

To watch an introduction video on YouTube, scan this QR code:



# FEATURES



Blackbox is the Trademark brand of Klein Electronics, Inc.

## FEATURES

| No. | Part Name                          | No. | Part Name                       |
|-----|------------------------------------|-----|---------------------------------|
| 1   | Battery                            | 11  | Volume Control Knob             |
| 2   | Battery Power On/Off               | 12  | P1~P4 (Programmable Keys)       |
| 3   | Battery Charging Port              | 13  | Battery Indicator               |
| 4   | LED Indicator                      | 14  | Dial / Hang up for Interconnect |
| 5   | On/Off Button                      | 15  | Emergency Button                |
| 6   | Return Button                      | 16  |                                 |
| 7   | Down Key                           | 17  |                                 |
| 8   | Up Key                             | 18  |                                 |
| 9   | The Menu/Ok Button                 | 19  |                                 |
| 10  | Programming connector (Mic option) | 20  |                                 |

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## Basic Operation

### Attaching the Antenna:

The N-Type connector for the antenna is on the front of the Lunchbox.

Simply take the connector from the antenna and press firmly into the receptor on the Lunchbox. Once pressed in, screw in by hand to tighten.

Place the magnetic base at least two feet away from the Lunchbox and any computer equipment.

NOTE: If the antenna is placed near computer equipment you may get interference.

**Caution: Never transmit without an antenna.**

### Plugging in the power cord:

1. The power cable is used to charge up the battery inside the Lunchbox, and usually takes about three hours to fully charge a drained battery. Plug the charger into the battery (on the face, below the Power button).
2. Plug the AC adapter into an electric outlet.

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## Basic Operation



Power On: Press in the large button. The blue LED should remain on.



Now press the small power button on the radio.



Power Off: Press and HOLD the small power button on the radio. Once off, press the large blue-lit battery power button.



Channel selection: Simply select your channel using the Up/Down arrow buttons on the radio.

Volume should be off unless used as a dispatch as well. Microphone options are available.

**NOTE:** For confirmation that the repeater is being used by the other radios, you will see the LED light on the face of the repeater turn red when someone is transmitting on their radio. You will also see the antenna icon in-use on the LCD screen.

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## Programmable Buttons

For the convenience of users to operate the radio according to their own habits, the following buttons can be programmed as short cuts to radio functions by an authorized dealer.

-P1 to P4 can be programmed to “long press” and/or short press.

-Short Press : Pressing and releasing rapidly.

-Long Press: Pressing and holding for the programmed duration. (This time can be set via the programming settings).

| No. | Shortcut Keys | Description  |
|-----|---------------|--|
| 1   | None          | No function. The error alert will be heard when the key pressed.                               |
| 2   | High/Low      | Toggles power level between high and low.  |
| 3   | Monitor       | Press monitor key to enter to “carrier squelch” mode when the current channel is with CTC/DCS. |



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| No. | Shortcut Keys       | Description  |
|-----|---------------------|--|
| 4   | Squelch Off         | To always unmute the speaker no matter whether carrier is present or not. (Analog mode). |
| 5   | Squelch Level       | Adjust the signal stress required for the radio to unmute.                               |
| 6   | Scan                | Toggles scan on or off. To receive signal from other channels                            |
| 7   | LCD Brightness      | Adjust the brightness level by entering to "LCD Brightness".                             |
| 8   | LCD Backlight Type  | To adjust off time of LCD backlight in this option.                                      |
| 9   | Repeater/Talkaround | Toggle between using a repeater and communicating directly with another radio.           |
| 10  | Zone Selection      | To change the current call zone.   |
| 11  | Home Screen         | To quickly return to the home screen.  |
| 12  | Nuisance Delete     | To temporarily ignore unwanted channel activity.   |
| 13  | Scramble/Encryption | Toggles scramble/encryption on or off.   |
| 14  | Contacts            | Provides directly access to the contact list   |
| 15  | Message             | Selects the message menu. Only works on digital mode.                                    |

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## Status Indicators on LCD Screen:

| Icon Name                  | Icon   | Radio Status  |
|----------------------------|--|---|
| Signal Strength Indication |   | No signal<br>The number of bars indicates the received signal strength.<br>Four bars are the strongest. |
| Message                    | <br> | There is new message/unread message.<br>Message inbox is full.  |
| Encryption or Scrambling   |   | Analog scrambling or digital encryption is available.   |
| Speaker Mute               |   | Speaker is muted.   |
| Transmitting Power         | <br> | High TX power for the current channel<br>Low TX power for the current channel                           |
| Channel                    |   | Channel is being monitored  |

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## Status Indicators on Radio (next to power button):

| LED Indicator        | Radio Work Status   |
|----------------------|---|
| Red LED lights on    | Radio is transmitting.  |
| Green LED lights on  | Radio is receiving (voice, short message, or data) or there is an activity on the channel.                          |
| Orange LED lights on | The radio is in the call hang-time period, pressing PTT on a mic lets you talk back while the orange LED lights on. |
| Orange LED flashes   | Radio is in: Emergency status, or you had a missed call / incoming call alert, or the radio is scanning.            |
| Red LED flashes      | Radio is receiving an Emergency alarm.  |

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For Support contact your Authorized Dealer.



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2-way radios