



RADIO Mini

USER MANUAL

DELTA RADIO GROUP

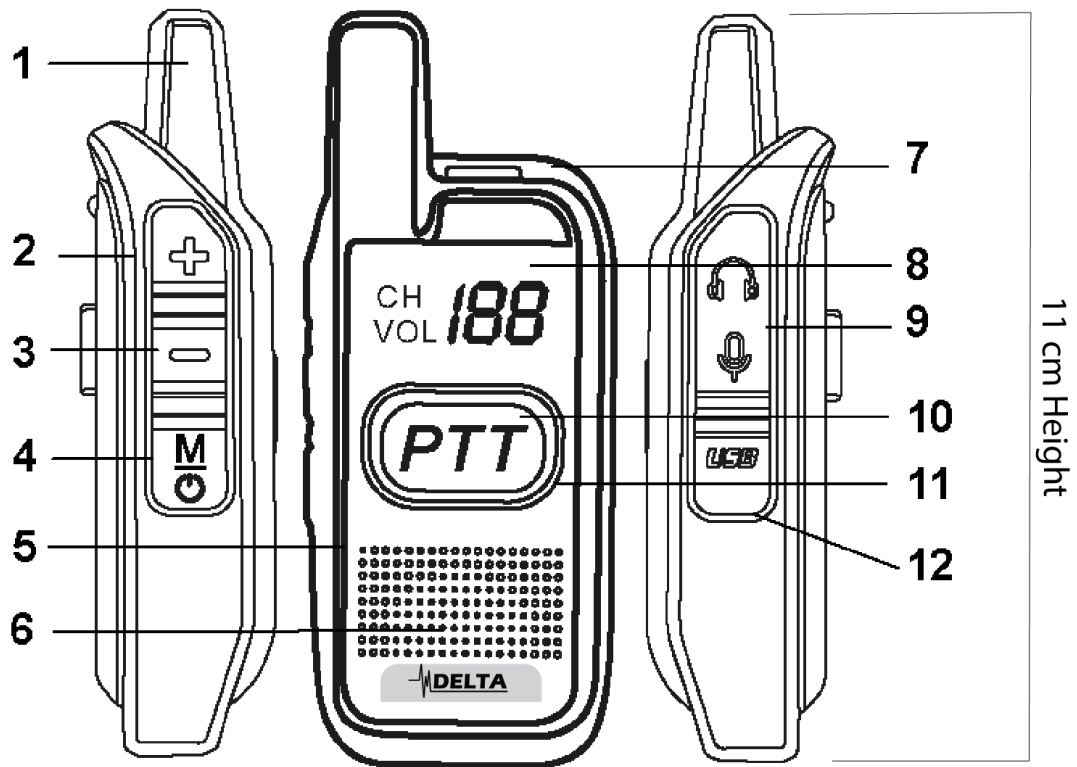
Welcome to the world of Delta Radio Group

Thank you for purchasing this product. This manual includes a description of the functions and step-by-step procedures for use.

Delta Radio Group was established in 2005 with the aim of providing high-quality two-way radios and accessories that are capable of withstanding the harsh environments that radios can be exposed to.

All Delta products are subject to an extensive testing process to ensure the quality of the product meets the strictest standards.

PRODUCT OVERVIEW



NO.	Part Name	NO.	Part Name
1	Antenna	7	Lanyard Hole
2	[+] Volume/ Up Keypad	8	LCD Display
3	[-] Volume/ Down Keypad	9	Accessory Jack
4	[M] Menu & ON/OFF Keypad	10	PTT Key
5	Microphone	11	PTT LED Indicator
6	Speaker	12	Micro USB Charge

MAIN FUNCTION

- Frequency Band: 400-520MHZ
- Memory channels 199.
- CTCSS/DCS encode & decode.
- Support standard and non-standard CTCSS/ DCS (CTCSS: 60Hz-260Hz, DCS: 000N--777)
- Scrambler
- Compander
- Hopping function.
- Scan and priority scan
- Vibration
- Emergency alarm
- VOX function.
- Voice prompt: capacity of battery, channel number etc.
- PC software programming (Dealer Only)

GETTING ACQUAINTED

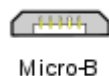
Charging the Battery Pack

1. The battery pack is not charged at the factory; Please charge before using. After purchasing or long-time storage (more than two months), the battery cannot reach its normal capacity when charged for the first time. After charging 2-3 times then the capacity reaches the full capacity.

i NOTE: Always power OFF the radio before charging the battery pack

2. Plug the Charger Pack into the 240 Volt AC outlet. Insert the USB A cable (the bigger end) into the Wall Pack and the other end which is a USB MICRO into the radio making sure that this is done gently as all USB sockets can be damaged if treated roughly. Please understand that the USB Micro is only a one way socket and trying to force the cable into the socket around the wrong way can damage the socket in the radio so make sure the charging cable makes contact with the USB socket correctly. The charger LED lights on and charging begins, the charge completes when charging light turns green.

USB Cover Closed:



Micro-B

i NOTE: Do Not Open PWR ON/OFF button for charging.

3. The Delta Mini uses a USB Micro-B for charging. Please note this connector is not reversible into the charging socket i.e., the wider end of the plug goes towards the back of the radio.
 - The PTT LED indicator turns green when charge is full.
 - Before operating the radio, charge the rechargeable battery pack for 3 hours without interruption.
 - Do not transmit when the radio is charging.

Low Battery Alert

During normal use, if the battery level becomes low, the unit will go into a Battery Low Mode and a battery low tone will intermittently sound, with the PTT LED indicator intermittently flashing RED.

The Transmit Mode is also disabled. Recharge the batteries.

Warnings and Information

*Do not recharge the battery pack if it is already fully charged. Otherwise, the battery life will be shortened or damaged.

*Always switch OFF the transceiver equipped with a battery pack before charging. Using the transceiver while charging will interfere with correct charging.

*Even after completely correct charge, the using time still not increases, then the battery life is over, please replace the battery.

i **NOTE:** Please make sure that at the end of the charging cycle the cable is pulled out gently at 90 Degrees and not forced out by just pulling the radio off the cable with force

INSTALL/REMOVE BATTERY PACK

To remove the battery pack, please turn off the radio first. Then pull-down battery clip located above the belt clip and the battery will pop up to remove it from the radio. Do the reverse to place the battery onto the radio.

i **NOTE:** Always ensure the radio is powered off before removing the battery.

Attach / Remove the Belt Clip

The supplied belt clip can be attached to the radio with the crews supplied.

Headphone jack (Kenwood 2 Pin)

A number of side connector options such as Headsets, Earpieces and Remote Speaker Mics are available from your Dealer.

i **NOTE:** To program your Delta mini contact your authorised dealer

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Keyboard: Used for related function operations.

[Turning on Radio] Press the Rubber button labelled **M** 

[Up keypad] In standby mode: short press: volume increase, long press: function optional (selected by program software)

[Down keypad] In standby mode: short press: volume down, long press: button lock switch

[Menu&ON/OFF keypad] Short press: enter the menu, press and hold for 3 seconds, power on/off the radio

[PTT button] press the PTT button to communication, release to reception.

OPERATION

Turn on/off the radio: Long press 3 seconds [Menu&ON/OFF keypad] key to turn on the power of radio; after booting, long press 3 seconds [Menu&ON/OFF keypad] key again to turn off the radio

Choose Channel:

In standby mode short press (O/M button), enter to channel and the LCD will display "CH" ,then short press (+/- button) choose channel, then press{PTT button) confirm channel.

PTT button launch:

Press (PTT button) and speaking in a normal voice (red light on launch), at the end of call, release (PTT button), waiting to receive.

Open, close button lock:

In the standby mode, long press (-button) two seconds, switch button lock open/close.

In the standby mode, short press (O/M button}

Keypad lock:

Long press "-" button with 3 seconds, lock the keypad, only volume plus or minus can be used after locking then long press with 3 seconds will be unlock.

Vibration function open:

When the vibration function is on, if there is no call within one minute, someone will call again, the vibration time is three seconds.

Charger

1. Charge through the USB port of this unit, please turn off the power first.
2. When charging via the USB of this unit, the PTT indicator in red, vibration and prompt tone charging, and the PTT indicator turns green after charging is completed.

MENU OPERATIONS

In the standby mode, press the [Menu & ON/OFF keypad] to enter the menu mode.

1. Press the [Up keypad] [Down keypad] to select the menu item, press the [Menu & ON/OFF keypad] to enter the option.
2. Press the [Up keypad] [Down keypad] to select the setting, and finally press the [Menu & ON/OFF keypad] to confirm and return to standby mode.

Num.	Display Character	Function Description	Secondary menu display Characters	Secondary menu setting instructions
1	F1	Channel Section	199	Choose the right channel
2	F2	Vibration function	Turn on/off	Turn vibration on/off
3	F3	Local Parameters	/	Broadcast the local name, current channel and battery

PC program frequency function

1. Use the specified program cable, connect the COM communication port of the computer and the SP/MIC jack, turn on the radio.
2. After turning on the computer, run the programming software.
3. Set the frequency and other functions. Select the writing class under the programming main menu to complete the desired function.
4. Select the reading frequency under the programming main menu to read the setting of the intercom.

SPECIFICATIONS

Unity Section	
Frequency range	400-520MHz
Operating temperature	-10°C-+60°C
Frequency combination	Lock ring frequency synthesis
Rated voltage	DC 3.7V (Li-ion battery)
Memory channel	199 channels
Antenna disposition	inductively loaded antenna
Antenna impedance	50Ω
Working manner	same frequency single operation or different frequency single operation
Weight	80g
Dimension	95mmx43mmx26mm
Transmit Parts	
Outpower power	3W
Modulation mode	frequency modulation
Maximum frequency deviation	≤ ±5kHz
Remnant radiation	<-60dB
Modulation mode (W/N)	16KØF3E,11KØF3E
Emission current	≤ 800mA
Receiving Parts	
Sensitivity	< 0.16 μV(12dB SINAD)
Squelch sensitivity	< 0.2 μV
Intermodulation Rejection	50dB
Audio frequency power	≥ 400mW
Receiving current	≤ 120mA
Squelch Standby	15

TROUBLESHOOTING GUIDE

Problem	Solution
No power	<ol style="list-style-type: none">1. Battery may run out of power, please update the battery, or recharge the battery.2. The battery pack may not be installed correctly. Remove the battery pack and install it again.
Battery power off shortly after charging	The battery pack life is over. Replace the battery pack with a new one.
Can not talk to or hear other members in your group	<ol style="list-style-type: none">1. Make sure you are using the same frequency and Quiet Talk tone as the other members in your group.2. Other group members may be too far away. Make sure you are within the working range of the transceivers.
Other voices (besides group members) are present on the channel	Contact your supplier to Change the Quiet Talk tone. Be sure to change the tone on all transceivers in your group.

For more information contact:

www.deltaradiogroup.com