

SWATCOM

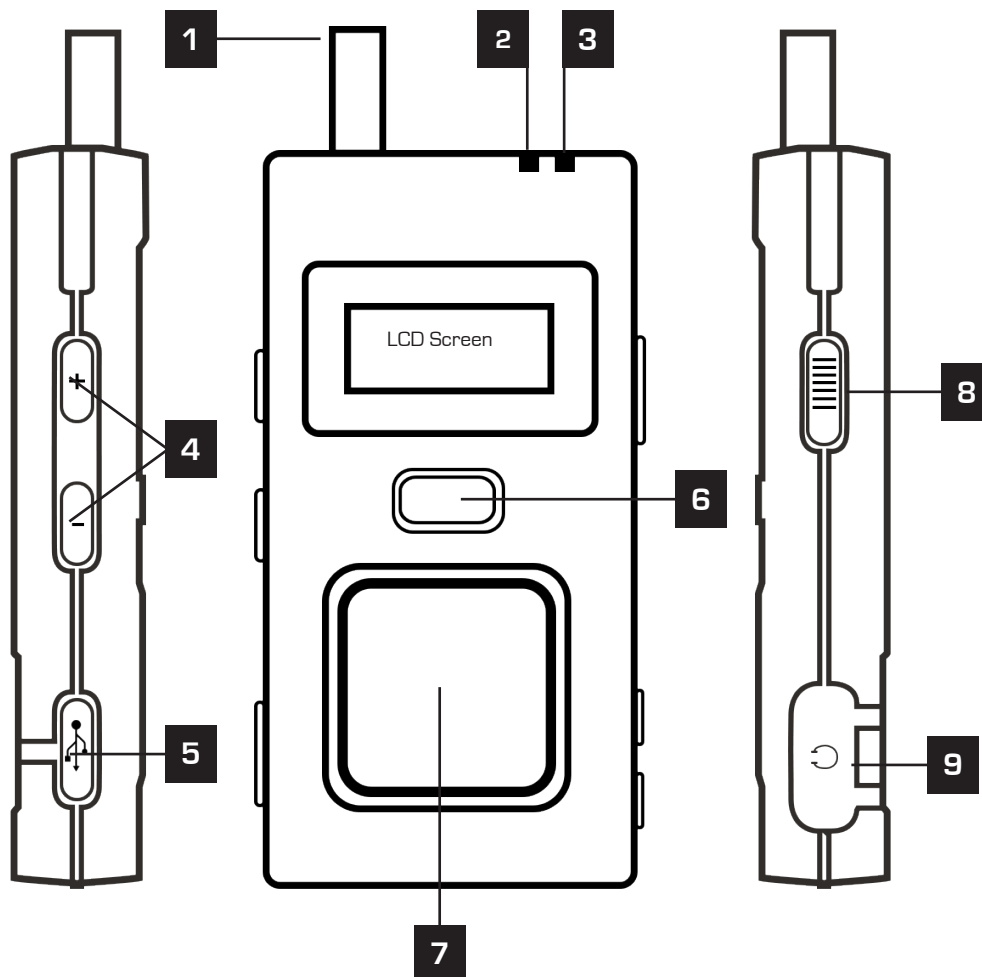
MULTICOM



User's Manual

SWATCOM

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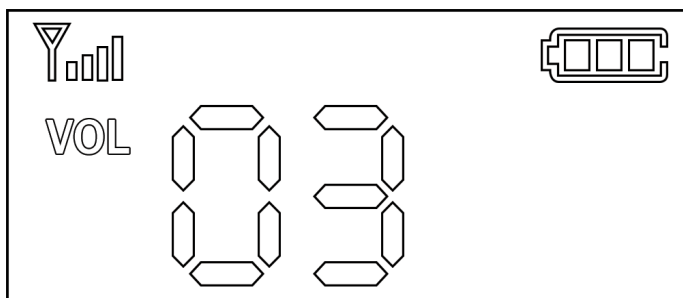
1. Antenna
2. Talk / State LED
3. Charging LED
4. Volume Controls / Menu Select
5. USB Charging Socket
6. Mode Button
7. Microphone Mute Button
8. On/Off Power Button
9. Headphone Socket

Introduction

The SWATCOM MULTICOM (SC-M) is a multi-purpose Full-Duplex, hands-free communications system that allows up to 5 users to transmit (TX) and receive (RX) simultaneously, with an additional 30 users able to listen-in (RX only). It works by having one handset selected as the “Master”, with up to 4 other users that are able to talk simultaneously hands-free, via a variety of optional headsets, the additional 30 users are able to listen into the conversation by choosing the required “channel” and selecting the “Receive Only” (PF) option on the handset.

1.0 Power On/Off

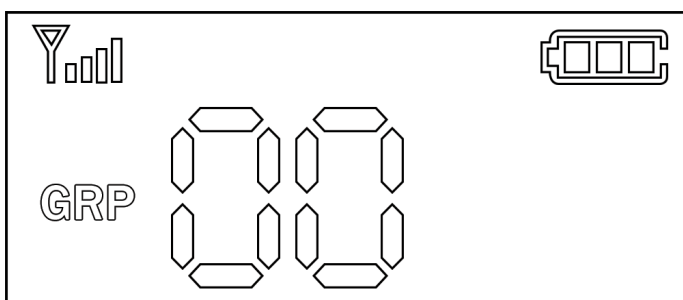
- Press and hold the 'Power' button for longer than 3 seconds to turn the device power on. The LCD display will switch on and it will show the default volume level "VOL 03".



- To turn the device off, press and hold the 'Power' switch again for longer than 3 seconds.

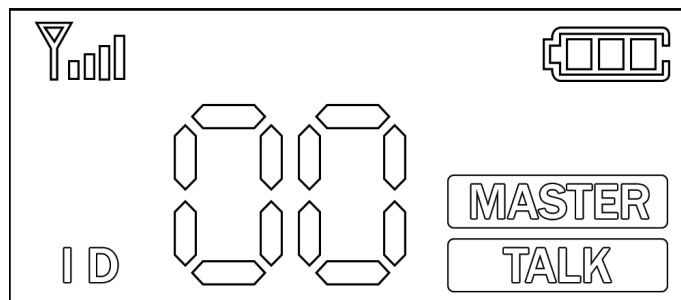
1.1 Group Selection

- Press and hold the 'Mode' button longer than 3 seconds after turning on the device. The 'GRP' symbol on the LCD should be blinking. Select the desired group number (00 to 39) by pressing the '+' and '-' (4) on the volume control buttons, then release all buttons for longer than 3 seconds to fix the selection in. All handsets need to have the same Group number to be able to communicate with each other.

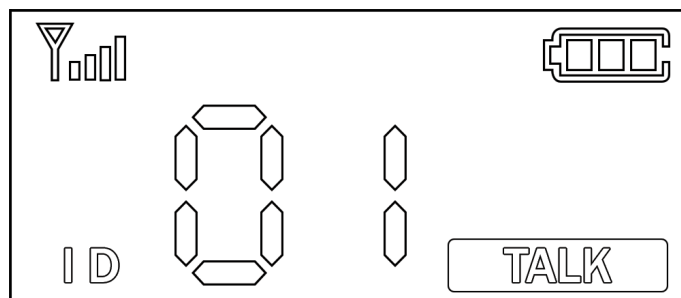


1.2 ID Selection

In a group, every radio needs to have a unique ID number ranging from 00 to 34. The ID '00' is reserved for the Master radio in the group and every group needs to have a the ID '00' assigned to the master, the 'MASTER' and 'TALK' will be displayed on the LCD once the ID '00' has been set. If the handset is set to any other ID other than '00' only the 'TALK' symbol will be displayed.



- Press and hold the 'Mode' button longer than 3 seconds after turning the device on. The 'GRP' symbol on the LCD will be blinking.

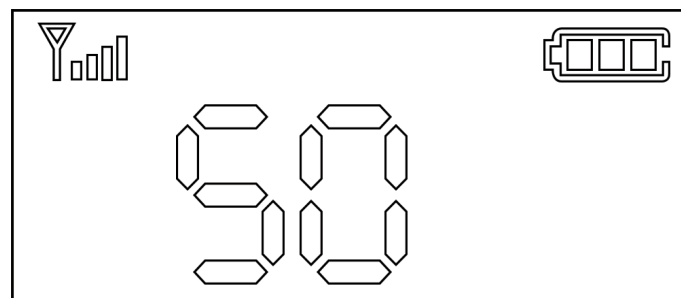


- Press the 'Mode' button again instantly. The 'ID' symbol on the LCD will be blinking.
- Select a different ID for each radio in the group from 00 - 34 by pressing the '+' and '-' on the volume control buttons and then release all buttons for longer than 3 seconds to fix.

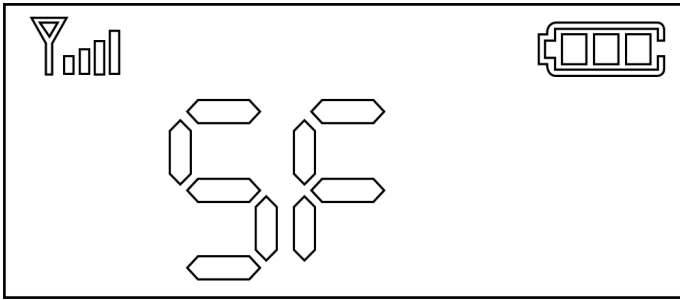
1.3 Side Tone On/Off

Press and hold the 'Mode' button for longer than 3 seconds, after the radio is turned on. The 'GRP' symbol on the LCD will blink.

- Press the 'Mode' button twice instantly, the 'SO' symbol will flash on the LCD.



- Choose either 'SO' Side Tone On or 'SF' Side Tone Off, by using the '+' and '-' buttons on the volume control.



- Press the **'Mode'** button four times instantly, the **'C3'** symbol will flash on the LCD.
- Choose the desired level **C1** to **C5** by using the **'+'** and **'-'** buttons on the volume control.

1.6 Audio Out Level

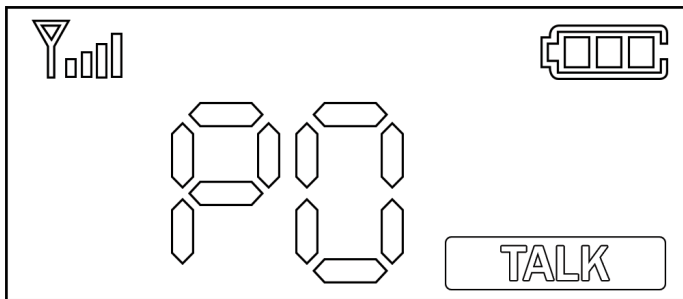
Press and hold the **'Mode'** button for longer than 3 seconds, after the radio is turned on. The **'GRP'** symbol on the LCD will blink.

- Press the **'Mode'** button five times instantly, the **'UL'** symbol will flash on the LCD.

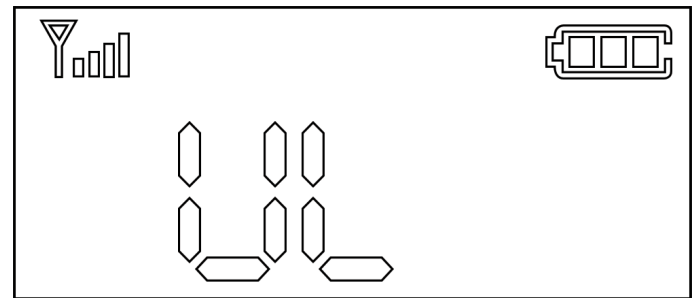
1.4 Transmit Mode

Press and hold the **'Mode'** button for longer than 3 seconds, after the radio is turned on. The **'GRP'** symbol on the LCD will blink.

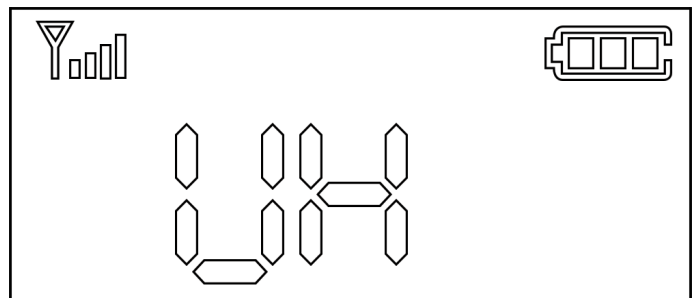
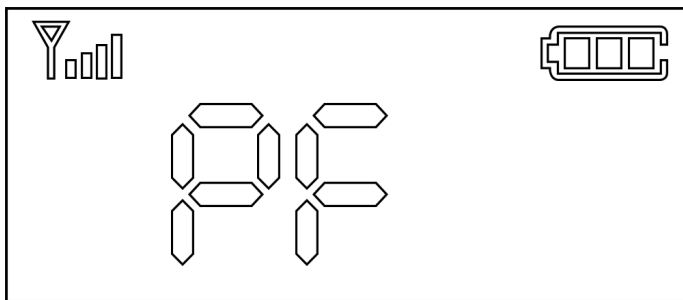
- Press the **'Mode'** button three times instantly, the **'PO'** symbol will flash on the LCD.



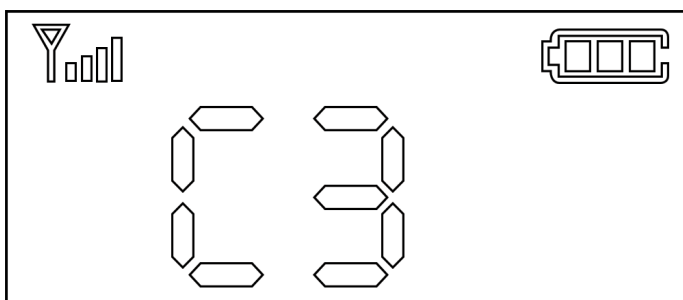
- Choose either **'PO'** Transmit & Receive or **'PF'** Receive Only by using the **'+'** and **'-'** buttons on the volume control.



- Choose either **'UL'** Audio Output Low or **'UH'** Audio Out High by using the **'+'** and **'-'** buttons on the volume control. Useful in high-noise environments.



1.5 Microphone Sensitivity



Press and hold the **'Mode'** button for longer than 3 seconds, after the radio is turned on. The **'GRP'** symbol on the LCD will blink.

1.7 Volume Control

- Make sure the radio is switched on. Press the **'+'** on the side of the handset to increase volume and press **'-'** to decrease volume, levels 1-6.
- Press the Microphone Mute button to turn off the microphone, press again to turn microphone on. This does NOT off 'Listening' it just turns off the microphone.

2.0 Range

All handsets must be within 400m Line-of-Sight (LoS) of the '**MASTER**'. When a handset goes out of range of the '**MASTER**' an audible BEEP will sound within the headset and the '**SIGNAL**' symbol on the LCD screen will have no bars.

3.0 Charging and Battery

IMPORTANT: Make sure the handset is turned **OFF** before charging, not doing so will significantly reduce the life of the battery.

- Plug the USB charging cable into the USB socket on the side of the handset
- Connect cable to charger and attached to mains power.
- The red LED in top right hand side of the handset will come on, the red LED will go off once the handset is charged

The handset contains a non-removeable, rechargeable 3.7V, 1100mA Li-Ion battery.

Handset Menu

<p>GRP: Radio Groups</p> <p>40 Groups (Channels) available All users must be on the same group to be able to communicate.</p>	<p>ID: Radio Identifications</p> <ul style="list-style-type: none"> • This is the handset identification code. The MASTER is always set a '00' • Full-Duplex (TX & RX) is always set 1-4 • Listen Only (RX) are always set at 5-34
<p>SO/SF: Side Tone</p> <p>The side tone feature is where you can hear your own voice in the headset, useful for self-monitoring.</p> <ul style="list-style-type: none"> • SO: Side Tone ON • SF: Side Tone OFF 	<p>PO/PF: Transmit Mode</p> <ul style="list-style-type: none"> • PO: Transmit and Receive (TX & RX) • PF: Receive Only (RX)
<p>C1-C5: Microphone Sensitivity</p> <p>Select the sensitivity level of the microphone.</p> <ul style="list-style-type: none"> • C1 lowest • C5 highest 	<p>UH/UL: Audio Output Level</p> <p>Adjusts the output audio levels, useful in high-noise environments.</p> <ul style="list-style-type: none"> • UH: Audio Output High • UL: Audio Output Low

Handset Specifications

Radio Frequency	ISM 2403MHz ~ 2480MHz
Type	Wireless Microphone/Receiver Unit
Radio Interface	ISM 2.4GHz: FSK Modulation with Frequency Hopping Output Power: Class 1(100mW)
Tx Max Output Power	100mW
Battery	Li-ion Battery @3.7V/ 1100mA
Antenna	Internal Helical Antenna
Talk Time	10 hour Typical
Power Consumption	Avg. 100mA at Class 1(100mW)
Frequency Response	50 Hz ~ 7 kHz
Dimension	98mm(H) x 49mm(W) x 17mm(D)
Weight	88g
Low Battery Alert	Audible signal (Beep)
IP Rating	IP54

