



## Operating Instructions

- C 7217C** PA With UHF Wireless Mic Receiver with Bluetooth
- C 7220C** PA With UHF Wireless Mic Receiver & CD/MP3/USB Player with Bluetooth
- C 7192C** Wireless Handheld Mic
- C 7193C** Wireless Handheld Condenser Mic
- C 7195C** Backpack Transmitter



***This operating guide also includes instructions for the following portable PA accessories:***

- C 7187C: UHF wireless microphone dual receiver
- C 7196A: Charging pod
- C 7197A: Lapel microphone to suit backpack transmitter
- C 7198A: Headset microphone to suit backpack transmitter

## Okayo Portable PA System

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With an output of 120W RMS, this Okayo® PA is an excellent choice for addressing large crowds up to 500 or more. The cabinet is moulded from industrial grade ABS plastic ensuring long life and the ability to absorb day-to-day wear and tear. The “luggage” type trolley wheels and extendible handle ensures easy manoeuvrability. The large capacity in-built battery and high efficiency amplifier design provides ≈6 hours of use away from 240V mains power (depending on application). Charging the battery is simply a matter of plugging the unit in for 6-8 hours.

The 2-way speaker system delivers a very crisp, clear sound which in our opinion out performs its competitors by a significant margin. This makes it the perfect choice for both voice and music applications.

It is equipped with two microphone inputs along with one auxiliary and a line input, all with individual volume controls. A master volume and overall bass and treble controls are also provided. Bluetooth wireless audio is built into the auxiliary input allowing wireless music streaming from Bluetooth equipped smartphones & tablets.

Voice priority is selectable to mute any music source when the microphones are in use. Supplied standard with one 96 channel UHF wireless microphone dual receiver with provision for A and B wireless transmitter sources. This allows two microphones to be used simultaneously. The UHF wireless microphone receivers are 96 channel, allowing easy selection of non-interfering frequencies. Each receiver includes individual frequency adjustment and volume control.

An MP3 compatible anti-skip CD player is fitted as standard. This module plays standard audio CDs or MP3s via the USB connection or SD card slot. And a Bluetooth wireless audio module is built into the AUX channel, allowing seamless streaming from any Bluetooth playback device.

Weighing only 20kgs, it is truly portable, allowing a wide range of use in schools, places of worship, clubs, auctions etc. Sets up in just seconds for instantaneous use.

Suitable for floor, desk or speaker stand mounting.

**C 7189C Optional wireless link transmitter:** For larger venues or audiences, the addition of this module allows several units to be used in the same area without the need for speaker or signal wiring. In this application you can have a master and as many slave units as required for the venue. The wireless link module is fitted to the master unit which then transmits any audio signal (including wireless mic, CD player or wired mic) to the slave units, which are fitted with a UHF wireless microphone receiver.

## Features

- Compact design sets up in just seconds
- Rugged heavy duty ABS cabinet
- MP3 compatible CD player
- ‘Luggage’ type trolley wheels
- In-built extendible handle
- High performance 120W RMS amplifier
- Built in backup battery
- Bluetooth wireless audio streaming via AUX channel input
- Battery level indicator
- Dual Receiver C 7187C UHF module included
- Suitable for desk or speaker stand mounting
- Optional wireless link for cable free transmission to additional systems
- RCA line input/output
- Two wired microphone inputs
- VOX muting
- 240V AC mains or battery operation



**Figure 1: Front**

- 1. Handle
- 2. Horn Tweeter
- 3. Port
- 4. Woofer
- 5. Speaker Grill
- 6. Heatsink



**Figure 2: Rear**

- 1. UHF receiver module Dual channel A & B
- 2. CD/MP3/USB player
- 3. Power switch & charge indicator (this panel is replaced when adding a C 7189C wireless link).
- 4. (C 7189C) Audio Link audio transmitter
- 5. Rear control panel with bluetooth input on AUX
- 6. 240V AC input

## Operation

### Power & Charging Functions

The portable PA system is powered by 240V AC mains via IEC socket (see figure 2 for location) or via the internal batteries. When operating for the first time the internal batteries will require charging for up to 8 hours. Charging will occur whenever the unit is plugged into the 240VAC mains supply. The charge status indicator (shown in figure 2) will illuminate red when charging. Once charging is complete the indicator will illuminate green.

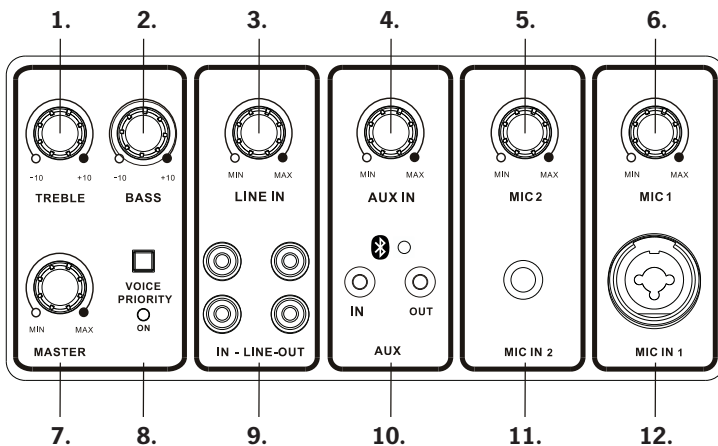
When in use without mains power the LED built into the power switch provides indication of battery status:

**100% to 20% capacity:** red illumination.

**<20% capacity:** flashing red illumination

**Figure 3: Controls**

1. Treble
2. Bass
3. Line in volume
4. Aux in volume
5. Mic 2 volume
6. Mic 1 volume
7. Master volume
8. VOX priority button
9. Line input/output RCA
10. Bluetooth/Aux input/output 3.5mm
11. Mic 2 input 6.35mm
12. Mic 1 input XLR/6.35mm TRS



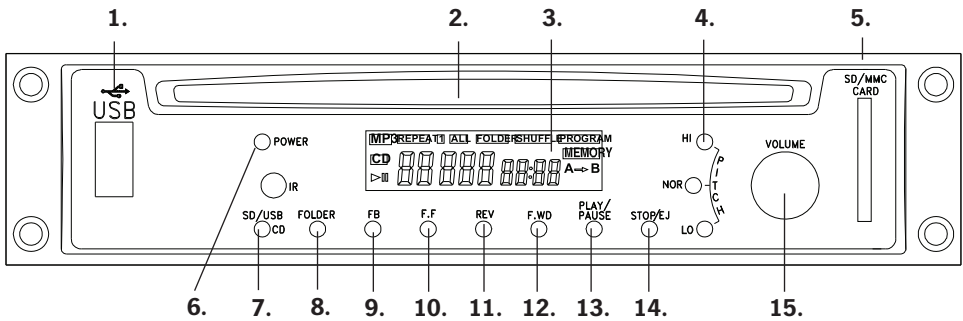
### Level Adjustments & Input/Output Connection - Figure 3.

System inputs, outputs and levels can be controlled via this module. Master volume adjusts overall system level from all inputs (ie: UHF, CD/MP3 player, RCA stereo input and wired microphones). Treble and bass controls affect all system inputs. When set to half way sound equalisation will be flat.

RCA stereo jacks are provided for an external audio source. This allows connection of a CD player, iPod or other audio source.

An RCA output is provided for use with external zone amplifiers or other PA systems if required. This output signal is combined from all inputs (ie: UHF, CD/MP3 player, RCA stereo input and wired microphones).

Pressing the voice priority (VOX) button turns the voice priority on. The red LED will illuminate. This will mute music output automatically when any microphones are in use.



**Figure 4: CD/MP3 Player Module**

- |                                 |                            |                         |
|---------------------------------|----------------------------|-------------------------|
| 1. USB port                     | 6. Power switch            | 11. Track skip reverse  |
| 2. CD slot                      | 7. SD/USB source selection | 12. Track skip forward  |
| 3. LCD screen                   | 8. Folder selection        | 13. Play/pause          |
| 4. Hi / Norm / Lo pitch control | 9. Track search reverse    | 14. Stop/eject          |
| 5. SD card slot                 | 10. Track search forward   | 15. Master volume level |

**CD/MP3 Player - Figure 4.**

1. Turn the main rocker switch on and press power button to turn on.
2. Press the SD / USB / CD switch to change between CD, USB or SD/MMC source.
3. To playback or pause, press PLAY/PAUSE on the front panel or ► || on the remote control.
4. Press REV, F.WD on the front panel or ◀▶ on the remote control for desired next or previous track number. The player will continue to play while displaying selected tracks. When the desired selected track is displayed, press play/pause button again to begin playing the selected track.
5. To stop playback press STOP/EJECT on the front panel or press ■ once on the remote control.
6. Press FB, FF on the front panel or ◀▶ on the remote to scan forward or backward within a track.

**Pitch Controls (operates with all music file types):**

- LO - PITCH:** Pressing this button on the front panel or the remote control reduces the speed (pitch) by 2% increments. Press once, and the screen will indicate PITCH: -1. Press again for up to 10 steps of speed variation.
- HI - PITCH:** Pressing this button on the front panel or the remote control increases the speed (pitch) by 2%. Press once, the screen will indicate PITCH: 1. Press again for up to 10 steps of speed variation.
- NOR - PITCH:** Pressing this button on the front panel or the remote control resets the pitch to zero (ie normal speed).

**CD Playback:**

- Insert a disc into the slot with the data side facing down, and playback starts automatically. Track number and playing time will be displayed on display panel.
- When inserting a disk into the CD player or taking a disc out, it is necessary to let the CD player insert the disk and return automatically. Do not force the disc in or out of the disc slot as this may cause serious damage to the unit.
- The LCD DISPLAY displays CD status including track number and playing time.
- Press STOP/EJECT on the front panel once to stop playback.
- Press STOP/EJECT again and the display will show total track numbers and total time.
- Press STOP/EJECT for the 3rd time and the disc will eject.
- Press STOP/EJECT a fourth time and the disc will be inserted again.
- For CD with MP3/WMA files. Press FOLDER on the front panel or remote to select the desired folder (directory).

# Okay Portable PA System

## SD/MMC Card:

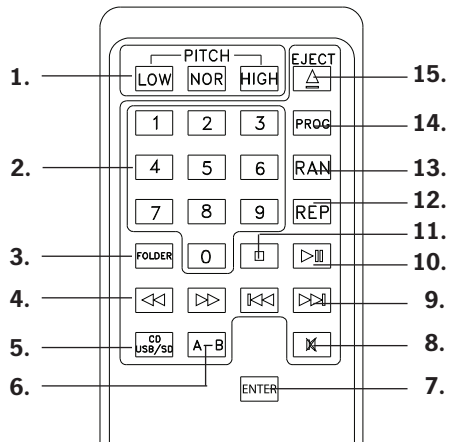
- Insert SD Card or MMC Card into the SD/MMC CARD slot on the front panel. Push the card into the slot until it clicks into the slot.
- When taking the card out, ensure that you hear it click that releases the card and then remove.
- Do not use force to pull the card out as this may cause damage to the card or the unit.
- Press SD / USB / CD or SD / USB / CD on the remote control to select the SD/MMC function, then press PLAY / PAUSE or **II** on the remote control to start playing.
- Press FOLDER on the front panel or remote control to select the desired folder (directory).

## USB flash:

- Insert USB into the USB slot on the front panel.
- Press SD/USB/CD or SD/USB/CD on the remote control until USB is selected
- Press PLAY / PAUSE or **II** on the remote control to start playing.
- Press FOLDER on the front panel or remote control to select the desired folder (directory).

**Figure 5: CD/MP3/USB  
Player Remote Control**

1. Hi / Norm / Lo pitch control
2. Track programming buttons
3. Folder selection
4. Track search reverse / forward
5. CD / USB / SD source selection
6. A>B (replays a section of track)
7. Track programming enter button
8. Muting
9. Track skip reverse / forward
10. Play/pause
11. Stop playback
12. Repeat / repeat all function
13. Random or shuffle playback mode
14. Track programming mode
15. CD player eject



## Remote Functions - Figure 5:

**EJECT:** Ejects compact disc

**RANDOM (RAN):** A random selection is played from available tracks. Press **RAN** and LCD will show SHUFFLE. Press **⏮ ⏭** to select next or previous random track.

**REPEAT (CD mode):** Press **REP** once to repeat play all tracks. The LCD will show REPEAT ALL. Press **REP** again to repeat playing the current track only. The display will show REPEAT 1. Press **REP** again to cancel.

**REPEAT (MP3/WMA mode):** Press **REP** once to repeat play all tracks. The LCD will show REPEAT ALL. Press **REP** again to repeat all songs in the current folder. The display will show REPEAT FOLDER. Press **REP** again to repeat playing the current track only. The display will show REPEAT 1. Press **REP** again to cancel.

**NUMBERS 0-9:** Enables track selection via number entered.

**FOLDER:** Changes the MP3 folder.

**PLAY / PAUSE:** Press once to pause. The LCD displays **II**. Press again to play and LCD displays **▶**.

**STOP:** Stops playback

**PREVIOUS TRACK:** Press ⏮ to select previous track.

**NEXT TRACK:** Press ⏭ To select next track.

**TRACK SEARCH:** Press ⏪ ⏩ to search through individual tracks. Press once to activate. Press again to cancel. Press ⏭ to return to normal playback.

**CD/USB/SD:** Selects USB, SD or CD source for playback. Then press ⏭ to start playing.

**A-B:** This selects a portion of music to be played. Whilst in play mode, press once for the start point for memorizing music selection. Press again for the end point. The unit will now begin playing from the start point to the end point. The unit will then continually repeat the selection. Press again to cancel A-B Function.

**MUTE:** Mutes the music output when pressed. Press again to cancel.

**PITCH ADJUSTMENT:** To adjust slow-speed, high-speed or normal play. **HIGH** To adjust high speed play. **LOW** to adjust slow-speed play. Each have 10 levels of speed variation. Press **NOR** to return to normal play.

**PROG:** Can be used to program a selection of songs:

#### *CD PLAYBACK MODE*

To play an ordinary CD, press **PROG** key. Select the track numbers. For 2 digit tracks, eg track 23, press keypad numbers 2 and 3, The LCD will display "23", then press **ENTER** to add to memory. The LCD will then display "23:01", meaning track 23, program 1. For track 5 press "5", then **ENTER**. The LCD will display "05:02". Repeat this to program other songs into memory. Press ⏭ play key and the unit will play all of the memorized songs.

The LCD indicator will display "MEMORY" and the song numbers it is playing. To cancel the memorized songs, press **PROG** key twice.

#### *MP3/WMA PLAYBACK MODE:*

To select MP3 format, press **PROG** key once, select the folder number, then press **ENTER** to confirm, then enter the track number, and then press **ENTER** to confirm. The display will now show the folder number, track number and number of the song programmed. For example: press 2 for folder 2, then **ENTER**, press 23 for track 23, then **ENTER**. The LCD will display "02 23:01". 01 is the first memorized song. Repeat this to program other songs into memory. Press ⏭ play key and the unit will play all of the memorized songs.

The LCD indicator will display "MEMORY" and the song number it is playing. To cancel the memorized songs, press **PROG** key.

#### **CD/MP3 Player Display:**

**MP3:** The display panel shows **MP3** when in MP3 mode.

**CD:** When in CD mode, the display panel shows **CD**.

**PLAY:** When playing the display panel shows ▶

**PAUSE:** When paused the display panel shows ⏸

**REPEAT (SINGLE TRACK):** When repeat is selected the display panel shows **REPEAT 1**.

**REPEAT (ALL TRACKS):** When all songs on a CD are playing repeatedly, the display panel shows **REPEAT ALL** .

**REPEAT (FOLDER):** When all songs in a folder are playing repeatedly, the display panel shows **REPEAT FOLDER** .

**SHUFFLE:** Selects tracks randomly.

**PROGRAM:** Will play programmed tracks.

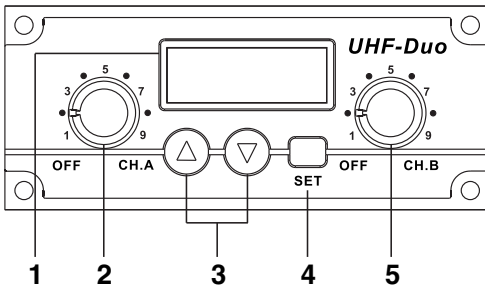
**MEMORY:** Will play tracks stored in memory.

**A-B:** Repeat playing between A and B.

**88:** In MP3 mode the display will appear with the folder number.

**888:** Displays the current playing track number.

**88:88:** Displays the time for the current track playing.



**Figure 6: UHF Wireless Mic Module**

1. LCD screen
2. Channel A power switch and volume control
3. Up/Down frequency selector
4. Frequency SET button
5. Channel B power switch and volume control

### UHF Mic Receiver Operation - Figure 6.

#### Switch on:

- Turn Channel A / B knob (2) / (5) clockwise until a click occurs. The LCD will then display the text “On”. After a few seconds, the LCD window will show a channel number and a signal strength.

#### Setting and Selection of Channels:

NOTE: Channel A and Channel B cannot be set with the same channel number at the same time.

- Press and hold SET (4) to enter the channel selection mode. If Channel A is on, the channel number of Channel A that is shown on the screen starts to blink. Press the Up or Down Frequency arrows (3) to choose your preferred channel number. Press SET again to confirm the channel setting.
- Perform the same process on Channel B after switching that channel on.
- If you don't press any button, within 10 seconds the receiver will retain the last chosen channel number.

#### Display of Frequency Value:

Press either the Up or Down arrows on the Frequency Selector and the frequency value of Channel A or B will be displayed for two seconds before reverting back to showing the channel number.

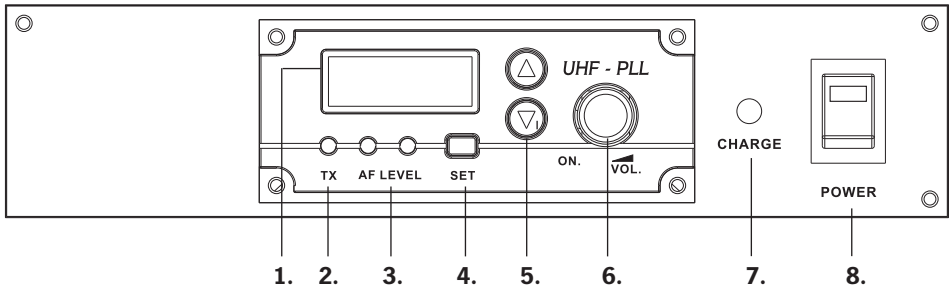
#### Scan - Searching for available channels automatically:

1. Press Up and Down arrows (3) together for more than a second. The LCD window will show “Scan” without blinking. Channel A and Channel B will be switched to any available channels automatically. If there is no channel available, the current channel numbers will remain the same.
2. Using two UHF Duo wireless receiver modules simultaneously:
  - Set the group number as F2 for these two wireless receiver modules.
  - Wireless Receiver Module 1 will search for available channel automatically as described in step 1.
  - Switch on the Transmitter used for Wireless Receiver Module 1 and adjust the channel number accordingly.
  - Wireless Receiver Module 2 will search for available channel automatically.
  - Switch on the Transmitter used for Wireless Receiver Module 2 and adjust the channel number accordingly.

#### Setting of Group Number and SQ Value:

1. Press Set (4) and then switch on Channel A or Channel B to enter Group setting. The LCD window would show ‘F1’ (number will keep blinking).
2. Press Up or Down arrow buttons (3) to look for your preferred group number.
3. Press SET to confirm the group setting or wait for five seconds to confirm it automatically and then enter setting mode of SQ value.
4. Under setting mode of SQ value, LCD window will show ‘F2’ (number will keep blinking).
5. Press Up or Down arrows to choose SQ value. The value will not be set in circulation.
6. Press SET again to confirm the group setting or wait for five seconds to confirm it automatically.





**Figure 7: Audio Link Transmitter (C 7189C)**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. LCD screen</li> <li>2. TX audio indicator</li> <li>3. AF audio level indicator</li> <li>4. Frequency set button</li> </ul> | <ul style="list-style-type: none"> <li>5. Up/down frequency adjustment buttons</li> <li>6. Power switch &amp; mic level control</li> <li>7. Battery charging indicator</li> <li>8. System power switch</li> </ul> |
|--|---|

### Audio Link Transmitter (C 7189C) - Figure 7.

For larger venues or audiences, the addition of this module allows several units to be used in the same area without the need for speaker or signal wiring. In this application you have a master and as many slave units as required for the venue. The wireless link module is fitted to the master unit which then transmits any audio signal (including wireless mic, CD player or wired mic) to the slave units, which are fitted with a UHF wireless microphone receiver.

*(See page 7 for installation guidelines for this module)*

1. On the master unit turn the power switch / volume level control clockwise to turn the transmitter on.
2. The LCD screen will display “On” then revert to the factory default channel (or the channel last selected).
3. To select a channel press the “SET” button. Using the UP/DOWN frequency adjustment buttons you can select the desired channel.
4. On the slave unit turn the UHF receiver module on. Press “SET” and use the UP/DOWN frequency adjustment buttons to set the unit to the same channel as the master unit.
5. When transmitting audio from the master to slave unit the TX indicator will light green. The AF indicator displays audio level when users are speaking into the microphone or music is playing.

## Fitting Additional Modules

### Fitting C 7187C UHF Wireless Microphone Receiver Module

1. Ensure portable PA is NOT connected to mains power. Disconnect all input cables.
2. Unscrew the 'half width' blanking panel at the top of the rear panel (see figure 2).
3. Slide the UHF module in, ensuring the board slots into the connector at the rear of the expansion bay.
4. Screw the module into the rear panel.

All PA models feature a blanking panel with the system power switch mounted on it (see figure 2). This panel is replaced by the C 7189C module.

### Fitting C 7189C Audio Link Transmitter - See user manual for C 7189C.

## Transmitter Operation

All portable PA's equipped with a UHF wireless microphone module are compatible with the C 7192C, C 7193C handheld and C 7195C beltpack transmitters. All transmitters are sold separately. See figures 8 and 9.

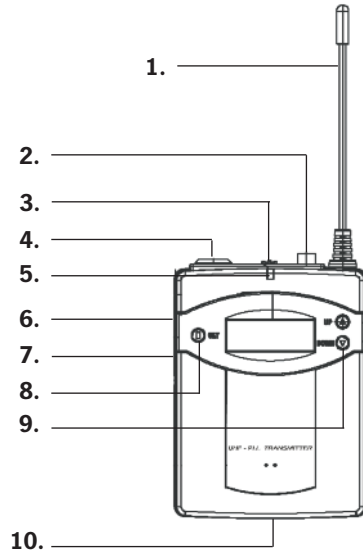
1. Ensure microphone is switched off before inserting batteries.
2. **(Handheld)** Remove lower housing and battery clip. Insert two AA batteries (alkaline or rechargeable's are recommended).  
**(Beltpack)** Remove battery clip. Insert two AA batteries (alkaline or rechargeable's are recommended).
3. **(Handheld)** Press and hold the power switch for three seconds (located on the base of the microphone). The power LED will illuminate red and "ON" will be displayed on the LCD screen. Note: power switch is more easily accessed with lower housing removed.  
**(Beltpack)** Slide the top mounted power switch to ON. The power LED will illuminate red and "ON" will be displayed on the LCD screen.
4. **(Handheld)** A selection switch on the rear of the microphone provides three level settings (mute, mid & high) depending on the application or environment in which the portable PA is to be used. Mute setting allows microphone to be put on standby without switching the power off.  
**(Beltpack)** A selection switch on the side of the beltpack provides three level settings (low, mid & high) depending on the application or environment in which the portable PA is to be used. The mute button allows beltpack to be put on standby without switching the power off.
5. The LCD screen will display the channel selected. To determine which frequency this channel is operating on, press the UP or DOWN frequency adjustment buttons.
6. Press the frequency set button for two seconds. The LCD screen will flash the currently selected channel number. You can cycle through the channels by pressing the UP or DOWN frequency adjustment buttons. Press the frequency set button again to lock in your channel selection.
7. The battery status is displayed on the left of the screen. When battery capacity is critical the icon will flash three times before switching the microphone off automatically.
8. **(Handheld)** To turn the microphone off press the power button for three seconds until the LCD screen displays "OFF"  
**(Beltpack)** To turn the microphone off slide the power switch to the off position until the LCD screen displays "OFF"
9. When using with rechargeable NiMH batteries, connect a DC 5V plugpack (Altronics M 8909A plus M 9187 tip adaptor) to the charging port on the base of the microphone. Charging time is dependant on the capacity of batteries used, typically 10-12 hours charging is required. If battery icon is flashing when charger is connected, ensure rechargeable batteries are inserted in the microphone. If batteries have failed both the battery icon and screen backlight will flash.

During normal charging the battery icon will cycle through the charge "block" icons. Once full capacity is reached the full battery icon and all "blocks" will be displayed.

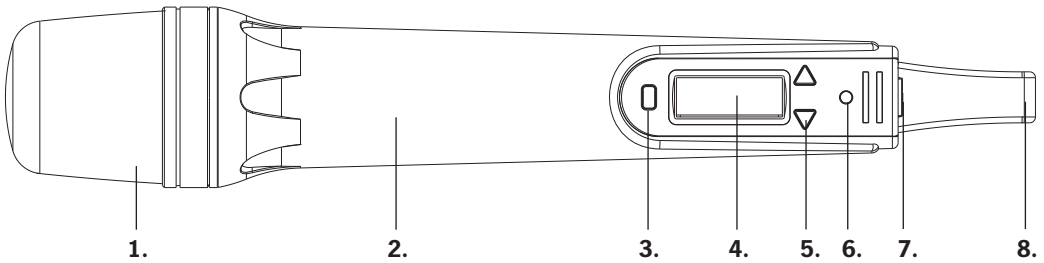
**Note: microphone is unable to be used during charge process.**

**Figure 8: Beltpack UHF Wireless Transmitter (C 7195C)**

1. Aerial
2. Mute button (top)
3. On/off switch (top)
4. 3.5mm mic input socket (top)
5. LED power indicator
6. Sensitivity selection switch (side)
7. 3.5mm aux input socket (side)
8. Frequency set button
9. Up/down frequency adjustment buttons
10. Charging jack



Note: Illustration of C 7192C shown. Functions and features of C7193C are identical.



**Figure 9: Handheld UHF Wireless Microphone (C 7192C/93C)**

1. Protective screen head
2. Rubberised body
3. Frequency set button
4. LCD screen
5. Up/down frequency adjustment buttons
6. LED power indicator
7. Power switch
8. Charging port connection

## Transmitter Troubleshooting

- **Power LED does not illuminate after pressing power switch**

Check batteries are charged and inserted correctly.

For handheld microphone, when pressing power switch, ensure you hold it down for three seconds

- **LCD shows “Err” when switching off**

Contact your place of purchase for information on resetting your transmitter.

- **LCD panel displays garbled information**

Remove batteries and re-insert them.

- **No sound output**

Check frequency of transmitter is the same as the portable PA receiver.

Check volume level of both transmitter and portable PA receiver.

For beltpack transmitter, ensure mute button is not activated.

Ensure transmitter is within range of the receiver.

Check for sources of interference, large metal objects etc within range of the transmitter.

- **Signal disturbance**

When operating two transmitters in the same area, ensure frequencies selected are several channels apart. This helps to reduce crosstalk between transmitters. Also note that other wireless devices can cause interference, ensure you adjust your frequency around these devices where possible.

## Bluetooth Pairing For Audio Streaming

1. Press or hold Bluetooth button (see #10 on Figure 3) in for 2 seconds to switch Bluetooth on/off.
2. You will hear a tone and the indicator will light blue. The indicator will also flash blue to indicate that it is ready to pair with Bluetooth device.
3. When it's in pairing mode, activate a Bluetooth connection scan on your smartphone or tablet device. When the search is complete, select a device named “Portable PA” from the pairing list and get it connected.
4. When the devices have successfully paired, it will sound a prompt tone again. The indicator will light steady blue.
5. You are now ready to stream audio via the Bluetooth connection from your smartphone or tablet as it's connected.
6. If a phone call is incoming during playback, the audio stream will be interrupted for the user to take the call. When the call is finished, the Bluetooth module will be relinked automatically and audio files will recommence playback from where they were interrupted.
7. When a user moves out of range for the Bluetooth connection, the audio stream will be severed until the user returns to a location within range of the module.
8. When Bluetooth is switched off, you will hear a prompt tone again.

## Important Maintenance / Operation Guidelines

**Avoid excessive heat:** Do not leave transmitters or portable PA receiver in direct sun for extended periods, in front of heaters or any source of high temperature

**Avoid rough handling:** Transmitter or portable PA receiver may be damaged if dropped

**Fully charge portable PA battery:** Ensure battery is fully charged before placing into storage for long periods. Ensure battery is charged once per month thereafter to ensure long life and optimum battery reliability.

**Remove batteries:** Remove batteries from transmitters when not in use.

**Replace batteries:** Ensure replacement batteries are the same or equivalent to existing. Batteries may explode under charge or unit may malfunction if incorrect batteries are used.

**Battery terminals:** Ensure battery contacts are clean and free of corrosion before operation. If corrosion occurs it could be a sign of faulty batteries. Return to your place of purchase if service is required.

**Table 1: UHF Wireless Channel Guide**

<b>520-544MHz Frequency</b>											
1	520.1	17	542.4	33	538.3	49	526.7	65	524.8	81	522.4
2	543.9	18	523.9	34	536.2	50	534.3	66	536.5	82	542.6
3	532.1	19	537.6	35	543.7	51	540.8	67	523.2	83	526.9
4	525.1	20	530.6	36	529.9	52	520.5	68	534.9	84	535.6
5	537.9	21	542.1	37	524.4	53	535.3	69	527.3	85	540.3
6	522.8	22	523	38	538.1	54	529.1	70	541.4	86	531.8
7	535.1	23	532.5	39	521.3	55	539.6	71	524.1	87	540.1
8	527.5	24	528.9	40	533.5	56	530.4	72	533.9	88	525.6
9	541.6	25	541	41	521	57	543.1	73	529.6	89	538.7
10	521.5	26	520.7	42	531.2	58	522	74	540.6	90	530.1
11	533.3	27	531	43	522.6	59	532.3	75	526.2	91	527.1
12	523.5	28	525.4	44	537	60	528.4	76	543.3	92	531.5
13	536.8	29	542.9	45	525.8	61	537.3	77	523.7	93	533
14	526	30	522.2	46	541.8	62	521.7	78	534.1	94	527.7
15	539.4	31	534.6	47	528.7	63	543.5	79	528.2	95	539.8
16	529.4	32	524.6	48	539.1	64	530.8	80	535.8	96	533.7

**Frequency Combinations 520-544MHz**

**1. Use 4 channels at the same time**

- (1) 19 20 35 36      (2) 10 57 58 59      (3) 19 34 36 39      (4) 20 35 39 69
- (5) 59 75 77 90      (6) 11 44 45 57      (7) 07 53 84 87

**2. Use 8 channels at the same time**

- (1) 06 39 42 45 55 70 89 90      (2) 17 18 20 33 34 36 37 89
- (3) 01 02 06 37 49 50 70 84      (4) 02 49 50 52 68 69 71 86
- (5) 34 40 52 57 68 69 81 82

**3. Use 12 channels at the same time**

- (1) 20 21 49 50 58 65 66 71 75 84 85 87
- (2) 02 17 21 22 25 26 41 42 67 82 85 86

## Specifications

### Portable PA Amplifier

Frequency Response .....	20Hz to 20kHz
Output Power .....	120W RMS, 160W Max.
Total Harmonic Distortion .....	< 1%
Speakers: .....	10" woofer, 1" tweeter
Inputs: .....	XLR 3 pin, 6.35mm TRS, stereo RCA, 3.5mm stereo aux
Outputs .....	Stereo RCA line out, 3.5mm stereo aux
Controls .....	Master volume, bass, treble, line volume, aux volume, wired mic volume, wireless mic volume
Power .....	100-264V a.c. switching power supply
Battery .....	12V, 4.5Ah x 2 (sealed lead acid)
Operating Life (fully charged) .....	Up to 6hrs
Charging Time .....	6-8hrs
Dimensions .....	310 x 360 x 580mm
Weight .....	20kg

### Beltpack Transmitter (C 7195C)

Mic Insert .....	Condenser
RF Output .....	10mW
Spurious Emission .....	<250mW
Audio Input .....	Mic in, Aux in
AF Controls .....	Mute switch, hi/mid/lo switch
Battery .....	1.2V NiMH rechargeable x 2 or 1.5V Alkaline x 2
Operating Life (fully charged) .....	11 hrs (NiMH) or 14 hrs (Alkaline)
Dimensions .....	88 x 64 x 24mm
Weight (with batteries) .....	170g

### Handheld Transmitter (C 7192C/C 7293C)

Mic Insert (C 7292C) .....	Dynamic
Mic Insert (C 7293C) .....	Condenser
RF Output .....	10mW
Spurious Emission .....	<250mW
AF Controls .....	Hi/lo/mute switch
Battery .....	1.2V NiMH rechargeable x 2 or 1.5V Alkaline x 2
Operating Life (fully charged) .....	11 hrs (NiMH) or 14 hrs (Alkaline)
Dimensions .....	460 x 264mm
Weight (with batteries) .....	280g

### Audio Link Transmitter Module (C 7189C)

RF Output .....	10mW
Spurious Emission .....	<250mW
Antenna .....	Internal
Dimensions .....	88 x 64 x 24mm
Weight .....	170g

### UHF Wireless Receiver Module (C 7187C)

Antenna Mode .....	Diversity
Spurious Rejection .....	70dB
Adjacent Channel Performance .....	68dB @ 250kHz
Antenna .....	Internal
Dimensions .....	128 x 88 x 37mm
Weight .....	110g

### Overall System

Frequency Range .....	PLL synthesised control, 520-544MHz (96 channels)
Switching Bandwidth .....	Max 12MHz
Dynamic Range .....	110dB
THD .....	Less than 0.5%
Frequency Response (wireless) .....	70Hz-16kHz
Operating Range .....	50-60m (line of sight)

## Accessories



**C 7196A**  
**Beltpack**  
**charging**  
**dock**



**C 7197A**  
**Lapel**  
**microphone**  
**to suit**  
**beltpack**  
**transmitter**



**C 7198A**  
**Headset**  
**microphone**  
**to suit**  
**beltpack**  
**transmitter**

Altronic Distributors warrants this product for one year from date of purchase from Altronics or its resellers to the consumer.

During the warranty period, we undertake to repair or replace your product at no charge if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse or incorrect installation (i.e. failure to install and operate device according to specifications in the supplied instruction manual), neglect, shipping accident, or no fault found, nor by use in a way or manner not intended by the supplier.

For repair or service please contact your **PLACE OF PURCHASE**.

If this item was **purchased directly from Altronics** please make a warranty claim by:

1. FOR MAIL ORDER CUSTOMERS (includes school and trade orders),
  - a) Ringing us on 1300 797 007 and quoting your tax invoice number.
  - b) Upon contacting Altronics, we will issue an R.A. (Return Authorisation). As Altronics have a number of service agents throughout Australia, a copy of the R.A. will be emailed, faxed or mailed to you with full instructions of how and where to send the goods. The freight for shipping goods back to Altronics for all repairs is at the customers expense.
  - c) A copy of the R.A. form, (or at the very minimum, the R.A. number) must accompany the goods to effect the repair.
  - d) Altronics will pay the return freight to the customer where the warranty claim has been accepted.
  - e) Please quote the R.A. number in any correspondence to us.
2. FOR OVER THE COUNTER PURCHASES to make a warranty claim, please return the goods to us in any of our stores, with a copy of your proof of purchase (tax invoice).
  - a) Upon leaving the goods at one of our stores, an R.A. number will be issued to you.
  - b) Once repaired, you will be contacted, advising that the goods are ready to be collected from the store.

It is at Altronics discretion as to whether the goods will be repaired or replaced (whilst under warranty); and as to whether identical goods will be used to replace the item due to changes of models / products.

**Note: Under no circumstances should you attempt to repair the device yourself or via a non-authorised Altronics service centre, as this will invalidate the warranty!**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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