Operating Instructions

C 7310	*Basic PA*
C 7312	*PA with UHF Wireless Mic Receiver*
C 7314	*PA with UHF Wireless Mic Receiver & MP3 Player*
C 7315	*Wireless Handheld Mic*
C 7316	*Beltpack Transmitter*
C 7317	*UHF Wireless Receiver Module*
C 7318	*Digital Audio Player Module*
C 7319	*Bluetooth® Module*

Manufactured for Altronic Distributors Pty Ltd.

Okayo Portable PA System

Thank you for purchasing this Wireless Portable Sound System.
This manual contains comprehensive instructions on it's operation.
Please read it carefully before use and this unit will perform well.

*All peripherals and accessories that are not included in the package are available separately.
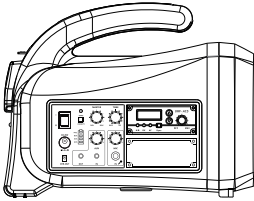
Product Packages

Models C7310 - C 7314 are powered by a sealed lead-acid battery (SLA).
They are all compatible with same receiver and audio player.
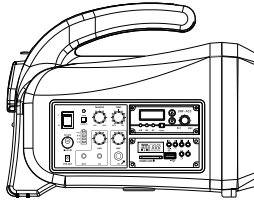The available models are shown below.

C 7310
Portable Powered Speaker
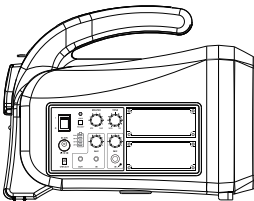
C 7312
**Wireless Portable Sound System
with UHF Receiver**

C 7314
**Wireless Portable Sound System
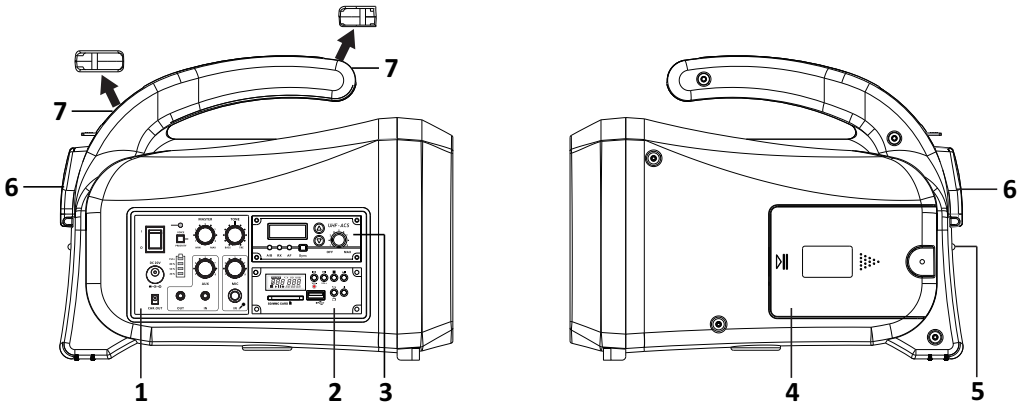with UHF Receiver and MP3 Player**

Accessories

C 7320 Carry Bag

C 7322 Folding Tripod

Features

1. Controls, battery meter, mic in
2. Digital audio player C 7318
3. UHF Receiver C 7317
4. Battery compartment door

5. LED indicator C 7315
6. Drop in handheld transmitter charger C 7315
7. Strap buckle
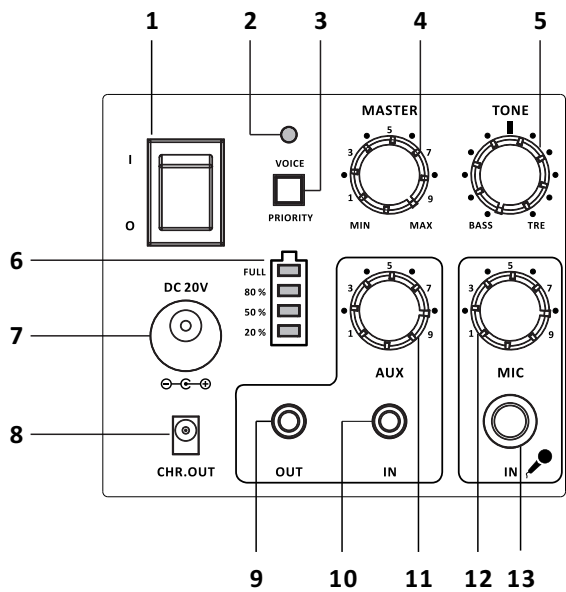
Battery Replacement



Remove screws

Take battery out

Be sure to connect battery correctly
Red = + positive
Black = – negative

Controls and Operation

1. Power switch
2. VOICE PRIORITY indicator LED
3. VOICE PRIORITY button
   When activated LED (2) will illuminate
4. MASTER volume knob
5. TONE control knob
6. Battery meter
7. DC IN socket
8. CHR OUT (5V Charger C 7316)
9. AUX OUT 3.5mm Ø
10. AUX IN 3.5mm Ø
11. AUX IN volume knob
12. MIC IN (wired) volume control
13. MIC IN (wired) 6.35mm Ø

UHF Wireless Receiver C 7317
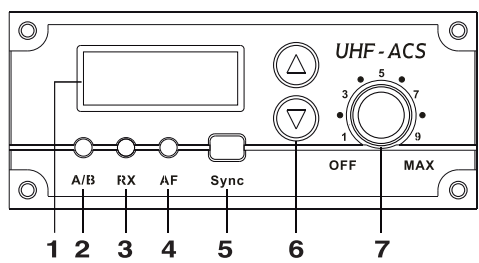
1. LCD window
2. Antenna A and Antenna B indicator LED
3. RF signal indicator LED
4. AF signal indicator LED
5. Sync button
6. Channel up/down buttons
7. Receiver power on/off and volume control

Operation

Turn the receiver power on/off control (7) clockwise until you feel a click. A text of $\boxed{5 \mathcal{Y}_n \mathcal{L}}$ will appear on the LCD window for about two seconds followed by a channel number. To turn it off, just turn the control counterclockwise until you feel a click. A text of $\boxed{\mathit{OFF}}$ will appear on the LCD and disappear after a few seconds.

How SYNC works

$\boxed{5 \mathcal{Y}_n \mathcal{L}}$ function can find a clear channel and assign it to a transmitter that is within range. Just turn on your microphone or transmitter and press the SYNC button. During the synchronisation process the RF LED indicator will blink for a few seconds.

Change channel manually
Press and hold the UP or DOWN buttons (6) until the channel number is blinking.
Select the desired channel using the UP or DOWN buttons.
A selected channel number will be confirmed in 1 second if no more adjustments are made to it.

• Please complete the channel setup in one receiver first, and then a second one,
  when you have more than one receiver.
• Be sure to give a different channel number to each receiver.

Digital Audio Player C 7318
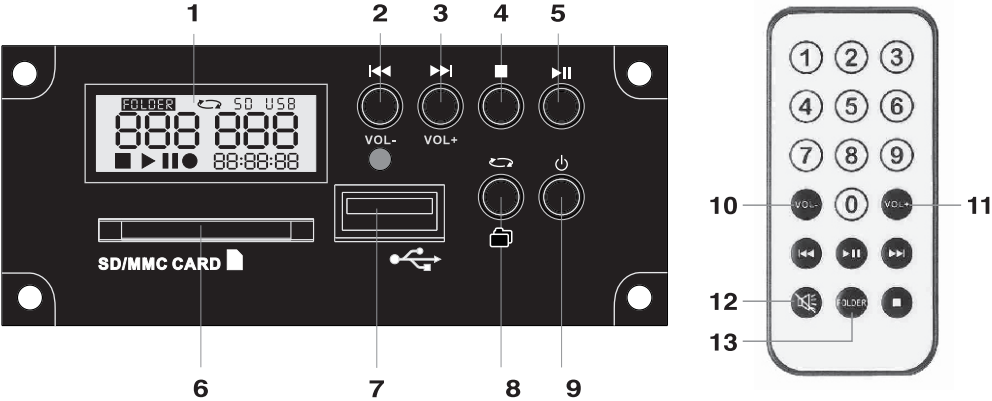
Features

1. LCD window
2. Previous track/volume down
   (Works during playback)
3. Next track/volume up
   (Works during playback)
4. Stop
5. Play/pause
6. SD/MMC card slot

7. USB port
8. Repeat/folder select
9. Power
10. Volume down (MUTE when set to minimum level)
11. Volume up
12. Mute
13. Folder select

1. Press and hold (9) for one second to turn the player on or off.
2. Press (2) to play previous audio track. Press (3) to play next audio track. Press (4) to stop any playback.
3. Press (5) to play or pause any audio track.
4. When both SD card and USB are installed, USB has priority for playback.
5. Do not pull SD card out directly or it may be damaged. Just push it inwards gently and it will be ejected.
6. Repeat/Folder Select
   a. There are three modes for repeat during audio playback.
   • ⤶ : To repeat a track.
   • ⤸ : To repeat all tracks in all albums or folders.
   • ⤷ : To reapeat all tracks in a single album or directory.
   b. When not in playback, press (8) to select a desired folder/album with NEXT/PREV buttons. Finally press PLAY to
   end the setting.
7. During playback, press VOL+(3) to increase volume, press VOL-(2) to decrease volume.

Handheld UHF Wireless Microphone C 7315

1. Mesh head
2. Handheld tube
3. Power indicator
4. Power ON/OFF button
5. LCD screen (channel, battery power remaining)
6. Channel adjustment and setup button

7. Talk/Mute button
8. Power Hi/Low switch
9. Battery compartment
10. Battery compartment cover
11. Talk/Push mode switch
12. Charging contacts

Battery Replacement

Open the battery cover and insert two AA 1.2V (NiMH 1600mAh) rechargeable or two AA 1.5V Alkaline batteries. Make sure the batteries are installed according to diagram in the battery compartment.

Operation and setup for handheld microphone C 7315

1. Take the batteries out and choose your preferred microphone mode using the TALK/PUSH mode switch(11).
    ? TALK - Under this mode the microphone will activate only when the TALK/MUTE button (7) has turned green. Mute the microphone by again pressing the TALK/MUTE button which will turn red.
    ? PUSH - Under this mode the microphone will transmit a signal only when the TALK/MUTE (7) button is pressed and held. The microphone icon will turn green. When the TALK/MUTE (7) button is released the microphone will mute any signal and the microphone icon will turn red and start flashing.
2. Choose a preferred output power with the HI/LOW power switch (8)
    ? HI - Offers operational range of up to 60m (line of sight) with a current drain of 100mA
    ? LOW - Offers operational range of up to 30m (line of sight) with a current drain of 70mA
3. Insert the batteries and replace the cover. Press and hold the POWER ON/OFF button (4) to turn on. The power indicator (3) will illuminate.
    ? Power indicator illuminates green - Battery contains sufficient charge for operation.
    ? Power indicator illuminates red - Battery has insufficient charge for operation.
4. Turn off handheld microphone transmitter by pressing and holding the Power ON/OFF button (4) for several seconds.
5. The signal transmission is highly dependent on battery energy. Batteries with a capacity of 1600mAh and higher are recommended.

Pendant Beltpack UHF Wireless Transmitter C 7316

1. POWER/MUTE switch (MUTE indicator)
2. Channel/Volume switch
3. LCD screen
4. Mesh head (hidden microphone)
5. External microphone input 3.5mm Ø
6. Hidden charging indicator
7. Aux input 3.5mm Ø

8. Neck strap hole
9. DC charging input
10. Strap hole
11. Neck strap
12. Buckle clip
13. Charging terminal

Operation and setup for pendant beltpack UHF wireless transmitter C 7316

Power ON
1. Press and hold the POWER/MUTE button (1) to turn the unit on. The display will illuminate.
2. When the power is on, the POWER/MUTE button glows blue.
3. The unit will start receiving audio two seconds after power is switched on.

Power OFF
1. Press and hold the POWER/MUTE button for two seconds to turn the transmitter off.
2. OFF will display on the LCD and all the indicators will go dark.

Channel select
1. Press and hold SET button for two seconds; enter into the channel select mode.
2. When a channel number flashes, press **+** or **–** to select a preferred channel.
   To confirm the channel, press the SET button.

Channel display
• Press the SET button to display the frequency that is currently in use.

Select output power/Maximum available channels
1. In OFF mode, press the SET and POWER buttons together to enter the frequency selection mode.
2. The number 96 will appear. Press the SET button again.
3. LCD screen will display Hi / Lo, press **+** or **–** to select preferred output power.
4. Press SET button to confirm and select or wait five seconds without pressing any buttons.

Volume switch
The LCD will display the current volume level when you press **+** or **–** (VOL. 1~3).

Frequency synchronization
1. When the power is on, press "Sync" button. The device finds a clear channel and waits for synchronization.

2. Turn the transmitter C7315/C7316 on and makes its tail/front part toward the device. LCD on the transmitter will then appear same channel as the device has.

3. When synchronisation is in progress, the RX indicator LED flashes and the LCD illuminates.

4. The device will stop synchronising if it does not detect the signal from the transmitter within 10 seconds after it finds a clear channel.

Others
To reset the device, press **+/–** at the same time and switch the power on.

? **Caution**
1. DON'T operate the device in the rain or in humid conditions to prevent failure.
2. DON'T drop the device or exert excessive force upon it.
3. DON'T use any power supply other than that which is specified in this manual.

Troubleshooting

Failure to Power On
• Check that the batteries are positioned with the correct orientation (polarity).
• Check the power adaptor is plugged into the wall socket.

No Sound Output
• Check that the transmitter and receiver are set to the same frequency.
• Check the volume control on the transmitter and receiver are turned up.
• Check the Master volume control is turned up.
• Check that the MUTE button is not switched on.
• Check if there is a source of radio frequency (RF) interference nearby.

Maintenance

Avoid heat, humidity
DO NOT place the unit in direct sunlight or on a hot surface for extended periods.
Store the unit at room temperature. Keep the unit well ventilated and away from flames or other heat sources.

Charge BEFORE you start using for the first time
After unpacking the unit for the first time, please charge the unit for about eight hours. This is absolutely necessary as the built-in rechargeable battery might have been discharged, due to transportation or being stored for extended periods, despite being fully charged at the factory prior to shipment.

Charge fully
Ensure that the battery is fully charged BEFORE you store the unit. To maximise battery life and maintain performance, make sure you charge the battery every month.

- When you need to use the unit again after a long period of storage, make sure you charge it fully
  for at least eight hours BEFORE any operation.
- Please also charge this unit at the end of a period of operation to ensure a longer battery life

This unit has a DOD (depth of discharge) protection circuit built in. When the POWER switch LED flashes red, this indicates the battery has depleted to a point where normal operation is not possible, it will shut down automatically. This is to prevent permanent damage to the battery due to deep discharge. If this occurs please shut down the unit and place it on charge immediately.

This unit has an inbuilt circuit to protect against overcharging. This will switch off charging once the battery is fully charged. **Useful hint: You can still operate the device whilst charging.**

Replacing battery
Make sure the substitute battery is in compliance with specifications. Using an incorrect battery may lead to explosion or malfunction.

Remove the batteries from the transmitter when it will be sitting unused for an extended period to prevent damage from leaking batteries.

Charging contacts
Clean the charging contacts regularly with isopropyl alcohol to ensure a good connection with the charger.

If you are unable to remove any corrosion when it occurs, then contact your place of purchase for repair.

Figure 11: Bluetooth® receiver module C 7319
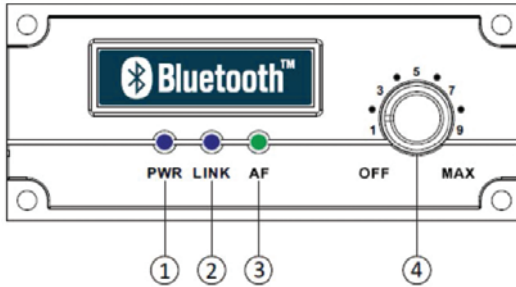
1. Power indicator
2. Bluetooth connectivity indicator
3. Audio frequency indicator
4. ON/OFF Volume switch

Operation of C 7319 Bluetooth Receiver

1. Turn the knob clockwise to switch on the Bluetooth module. Set a mid-range volume level to begin.

2. You will hear a tone and the PWR indicator (LED) will light blue. The LINK indicator will also flash blue to indicate that the module is ready to pair with another Bluetooth device.

3. When in pairing mode, activate a Bluetooth connection scan on your smartphone or tablet or similar device that will serve as a source of audio. When the search is complete, select a device named "Portable PA" from the pairing list. You device will attempt to connect with the Bluetooth module.

4. When the devices have successfully paired, the module will sound a prompt tone again. The LINK will light steady blue.

5. You are now ready to stream audio via the Bluetooth connection from your smartphone or tablet. You can adjust the audio volume on your device or using the volume knob on the Bluetooth receiver module.

6. The AF indicator will light when an audio signal is streamed from your playback device and received by the Bluetooth module.

7. 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 automatically relinked and audio files will recommence playback from where they were interrupted.

8. 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. The range is about 10 metres. However, it depends on what kind of operating system is installed on the smartphone or tablet. Sometimes it will be necessary to manually reconnect to the Bluetooth following the steps above.

Specifications

Overall

Carrier frequency:	640 - 664MHz
Channels:	96 (frequency dependant)
LCD window:	Channel, Frequency
Channel adjustment:	Select using UP and DOWN buttons
Frequency modulation:	24MHz max.
Ambient temperature:	-10ºC ~ +50ºC
Dynamic range:	100dB
Total harmonic distortion (T.H.D.):	<0.5%
Pre-emphasis:	50µS
Frequency response:	70Hz - 16kHz
Wireless coverage:	50 -70 metre (RF power dependent)
Output power:	40 watts RMS into 4Ω
Speaker:	5" Driver
Digital audio player:	Supports USB disk and SD card (optional)
Receiver:	Plug in receiver with ACS (Automatic Channel Synchronization) supports 2 receivers maximum
Audio input:	Mic in (6.35mm), Aux in (stereo mixed 3.5mm)
Audio output:	Aux out (stereo mixed 3.5mm)
Controls:	Receiver, Master, Tone, Mic, Aux in
Power supply:	AC switching power adaptor 240V-20V 3.25A
Battery:	Sealed Lead Acid (SLA)
Charging time:	8-12 hours
Running time:	3-6 hours
Dimensions (DxWxH):	333 x 153 x 246mm
Weight:	3.7kg

Digital Audio Player C 7318

Frequency response:	20Hz-20kHz
Power requirement:	12V d.c.
Display:	Backlit LCD
Output level:	600mV
Format supported:	MPEG layer 3
Signal to noise ratio (S/N):	>60dB
Total harmonic distortion (T.H.D.):	<1%
Remote range:	>3 meter
Controls:	Play, Stop, Repeat, Next(Vol+), Prev(Vol–)
External audio supported:	USB disk, SD card

Pendant/bodypack transmitter C7316

Microphone capsule:	Condenser
Antenna:	Internal.
RF output power:	10mW@Hi/2mW@Low
Audio input:	Mic in, Aux in
Mic in jack:	3.5mm
Audio control:	Mute, Hi/Mid/Low sensitivity
Battery:	Lithium (1200mAH)
Running time:	12-16 hours
Dimensions (DxWxH):	32 x 52 x 88mm
Weight:	81g (battery included)

Handheld transmitter C7315

Microphone capsule:..Condenser
Antenna:..Internal.
RF output power:..10mW@Hi/1mW@Low
Audio control:..Talk/Mute button
Battery:...2 x AA 1.2V (NiMH, 1600mAh) or 2 x AA 1.5V (Alkaline)
Running time: ....15 hours (NiMH), 20 hours (Alkaline) typical
Dimensions (DxL):...37 x 200mm
Weight: ....140g (battery included)

Altronic Distributors warrants this product for one year from date of purchase from Altronics or its resellers to the consumer. If this item is part of an installation or another product, please contact the installer or supplier for your warranty.

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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