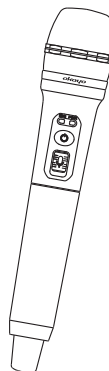
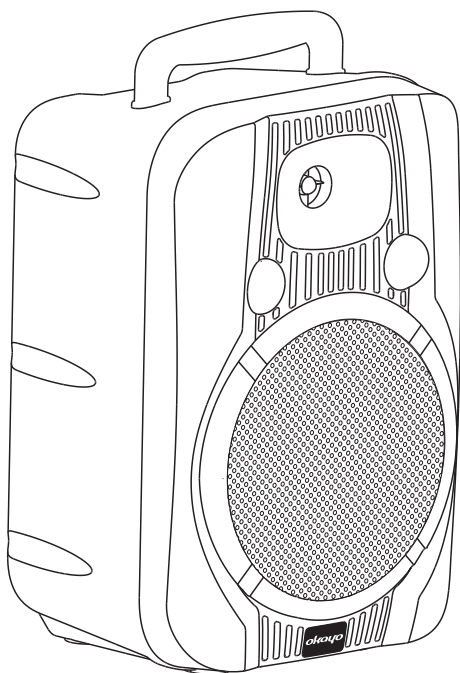




Operating Instructions

Covers the following products:

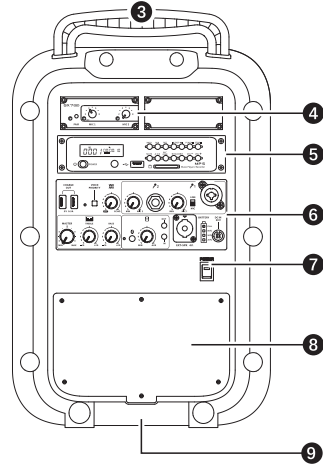
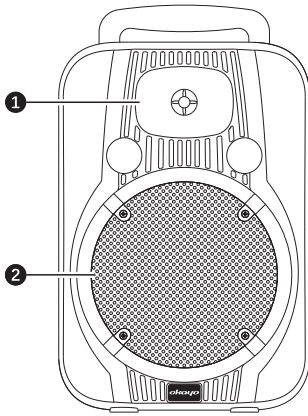
- C 7230 Portable PA System
- C 7231 PA System Extension Speaker
- C 7233 Wireless Handheld Transmitter
- C 7235 Wireless Beltpack Transmitter



Overview.

This portable PA system provides a fast way to set up audio in virtually any environment to help reinforce sound for meetings, training sessions, school meetings and much more. It can be connected to an extension speaker to provide additional coverage. The wireless microphone transmitters provided are DECT type operating on 1.9GHz frequency for superior clarity and interference free use. This user manual covers all aspects of operating the PA unit with the optional accessories.

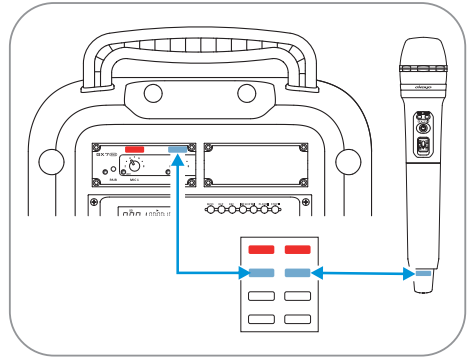
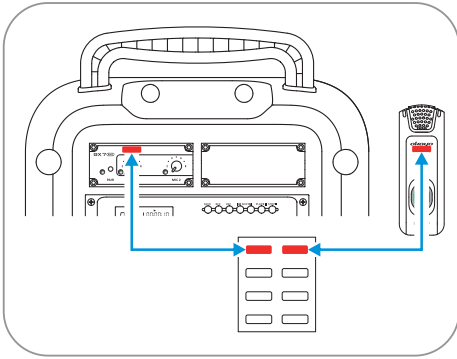
Front & Rear Panel.



1. 2" tweeter for high frequency.
2. 8" full range speaker.
3. Carry handle.
4. Duo wireless receiver (see page 5).
5. Audio player (see page 10).
6. Connectors and controls (see page 6).
7. Power switch.
8. Internal lithium iron phosphate battery.
9. Tripod slot (in base).

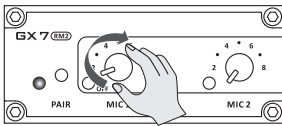
System Pairing

Colour labels are included with each C7230 system. These are used to identify which microphone is paired to which channel on the PA's wireless receiver. It is recommended to label both receiver and microphone before system pairing.

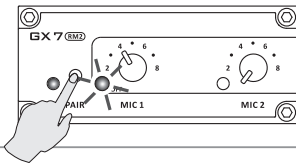


Follow the pairing process below before first use and to pair a new microphone transmitter to a PA system:

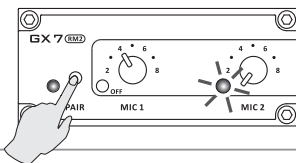
STEP 1. Tune MIC 1 knob clockwise to power on.



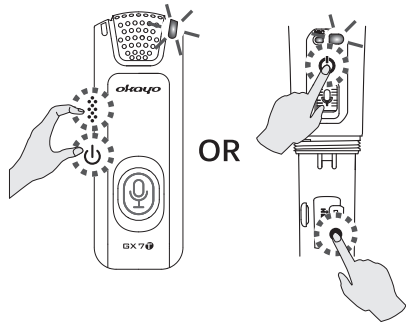
STEP 2. Press and hold PAIR button until a MIC indicator flashes.



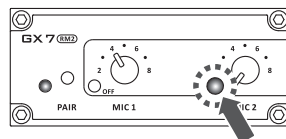
STEP 3. Select another MIC with a press of PAIR button again, if needed.



STEP 4. Press and both POWER and PAIR buttons on a microphone until PAIR indicator flashes.

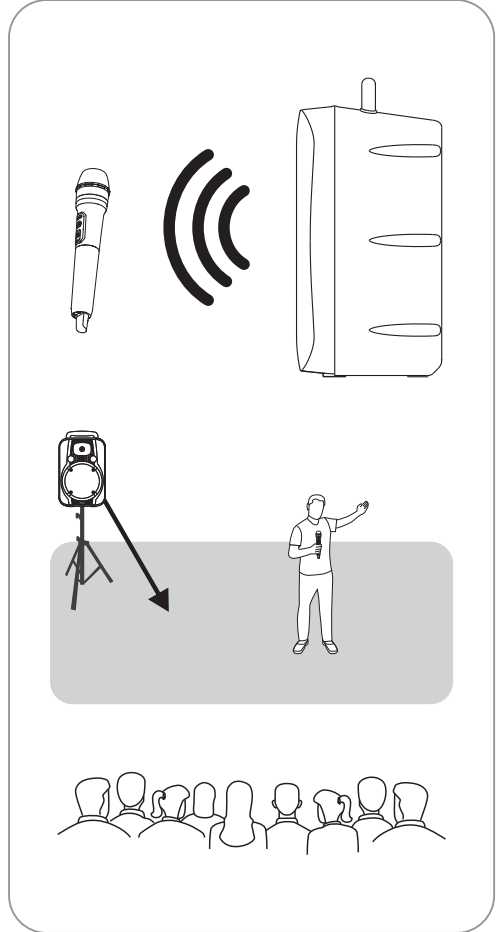
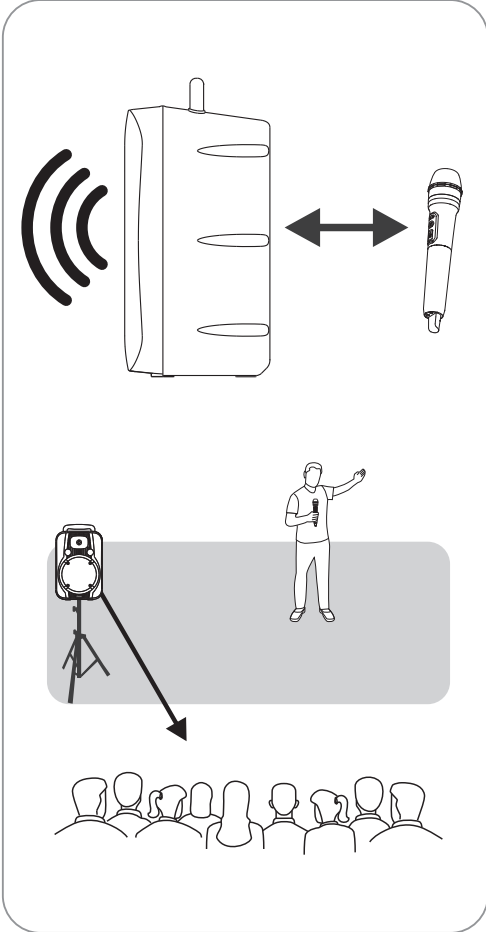


STEP 5. Pairing is done when STEADY LED shows up on both receiver and microphone.



System Set Up - Wireless

The operating range of the microphone transmitters is between 50 and 70m in ideal conditions. This range can vary due to obstacles within the operating environment. Ensure the system is correctly set up as shown below to avoid any potential microphone feedback.

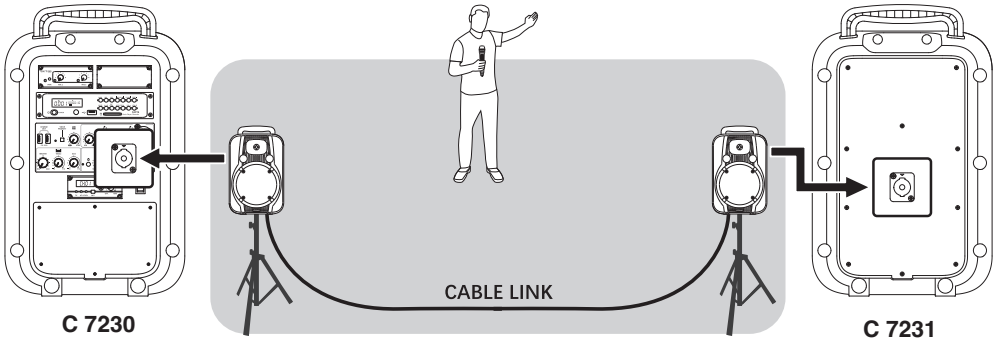


System Set Up - Wired Extension Speaker

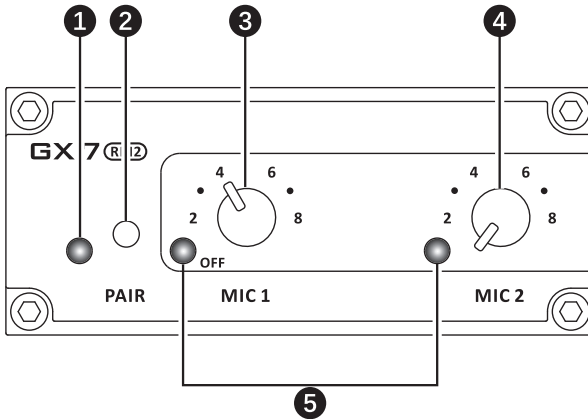
A SpeakOn style cable is required for this set up.

1. Connect one end of the cable to the SpeakOn connector on the back of the C 7231 extension speaker.
2. Connect the other end of the cable to the C 7230 portable PA system.

Note: The extension speaker requires no power and is powered from the C 7230 PA system. For suitable cables use P6185 (10m) or P6188 (20m) cables available from Altronics.



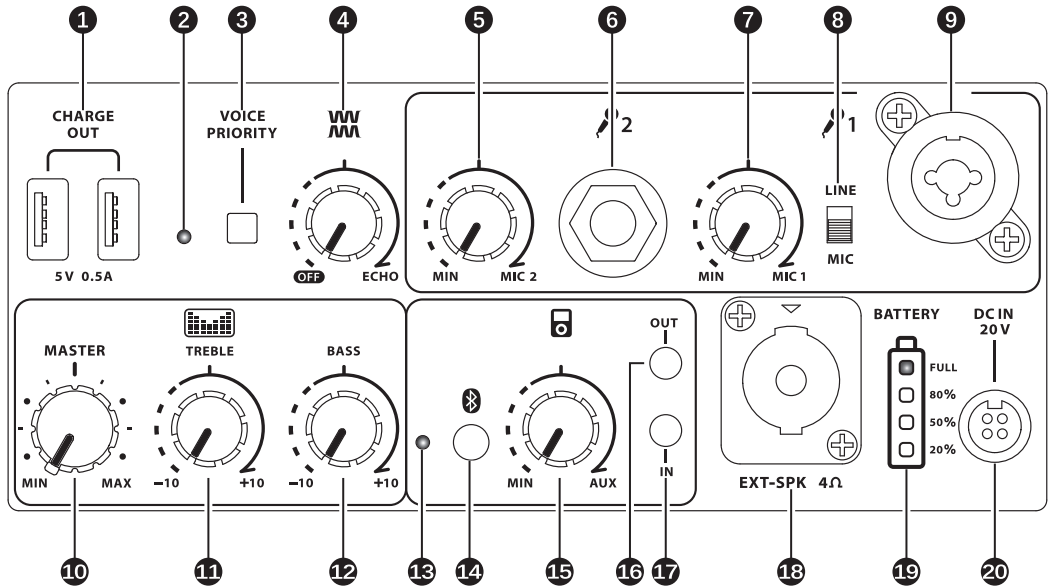
Duo Wireless Receiver Module



1. Power indicator.
2. Pairing button.
3. Reciever power & Ch 1 level control
4. Ch 2 level control
5. Microphone indicator:
 - Steady BLUE/RED: Paired microphone and its battery is full/low
 - Slow flashing BLUE/RED: Paired microphone is muted and its battery is full/low.
 - Quick flashing RED: Pairing is in process.
 - OFF: Paired microphone is off or no paired microphone exists.

Connectors & Controls

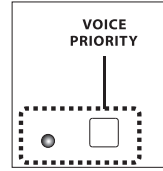
The rear panel of the C 7230 provides access to all connections and level adjustments. Plus a handy indication of battery capacity.



- | | |
|---|---|
| 1. USB-A charging ports (2x5V 0.5A) for microphones. | 11. Treble control. |
| 2. Voice priority indicator. | 12. Bass control. |
| 3. Voice priority button. (see page XX). | 13. Bluetooth indicator. |
| 4. Echo control. | 14. Bluetooth button (see page XX). |
| 5. Volume control for wired microphone (MIC 2). | 15. Volume control for aux audio inputs (including Bluetooth and 3.5mm audio inputs). |
| 6. 6.35mm input for wired microphone (MIC 2). | 16. 3.5mm audio output. |
| 7. Volume control for wired microphone (MIC 1). | 17. 3.5mm audio input. |
| 8. LINE/MIC switch for wired MIC 1. | 18. SpeakOn connector (for C7231 extension spkr.) |
| 9. Combo (6.35mm/XLR) input for wired microphone (MIC 1). | 19. Battery level indicators. |
| 10. Master volume control. | 20. 20V DC power charging input. |

Voice Priority

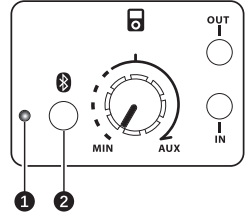
When this voice priority button is pressed, its indicator lights up and volume of all audio sources, including 3.5mm audio input, Bluetooth and the audio player will be substantially decreased when the wireless or wired microphones are active.



Bluetooth

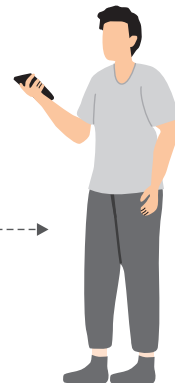
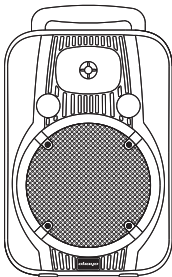
When this voice priority button is pressed, its indicator lights up and volume of all audio sources, including 3.5mm audio input, Bluetooth and the audio player will be substantially decreased when the wireless or wired microphones are active.

1. Bluetooth Indicator.
 - Steady BLUE: Bluetooth enabled device connected.
 - Steady PURPLE: Set as Bluetooth TWS master device.
 - Steady RED: Set as Bluetooth TWS companion device.
 - Quick flash BLUE: Bluetooth is on and ready to pair.
 - Quick flash PURPLE: Master speaker Bluetooth is on and TWS connection is in progress.
 - Quick flash RED: Companion speaker Bluetooth is on and TWS connection is in progress.
 - OFF: Bluetooth is off.
2. Bluetooth Button.



Connect to Bluetooth enabled device.

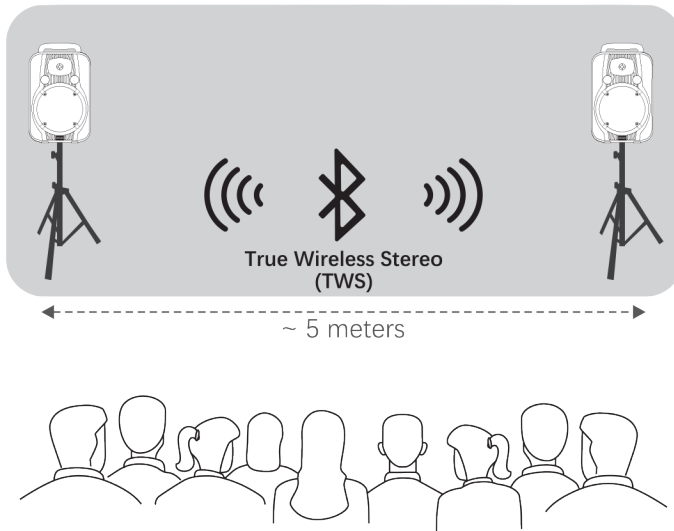
1. Press and hold the Bluetooth button until activation sound is heard. BLUE indicator flashes to indicate system is ready to pair.
2. Search for "OKAYO BT XX (XX = 01-10) on Bluetooth enabled device and tap to connect.
3. Connected sound will be heard afterwards. A steady BLUE indicator is provided indicating device is successfully paired.
4. Adjust the bolume appropriately and start to play audio from your Bluetooth enabled device.



Connect to a companion TWS speaker.

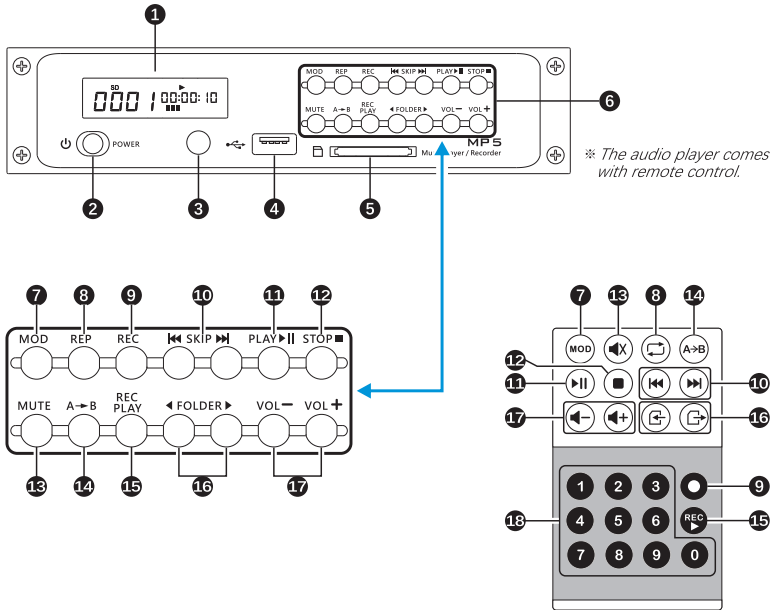
1. Press and hold the bluetooth button on both speakers.
2. Select one speaker and connect it to a Bluetooth enabled device. This speaker will become the "Master" and the other speaker the "Companion".
3. Press the bluetooth button twice on both the master and companion speakers to start TWS connection.
4. When the TWS connection completes, a steady PURPLE indicator lights up on the master speaker. A steady RED indicator shows up on the companion speaker. In addition, "MONO mode" will be heard.
5. To change from mono to stereo, press the Bluetooth button twice again on the master speaker. "Stereo mode left" (on master speaker) / "Stereo mode right" (on companion speaker) will be heard at the same time. Set up for stereo TWS is now complete.

Please note wireless microphone audio will only play through the Master speaker when paired in TWS mode. If using a wireless microphone with two PA units, we recommend using the C7231 extension speaker and connecting them via a cable link as shown on page 5. This allows for microphone audio via both speakers.



Audio Player

The audio player provides an easy way to play back audio files from a USB stick or SD card.



1. Display.
2. Power button - press and hold for on/off.
3. Infra-red sensor for remote control.
4. USB 2.0 connection.
5. SD card slot.
6. Playback control buttons.
7. MODE button - switch between USB and SD.
8. REP (Repeat) -
REP1 repeats track.
REP1 ALL: repeats all tracks in folder.
ALL: repeats all tracks in all folders.
RAN: plays randomly from all folders.
9. REC (Record) - Allows recording of audio.
10. SKIP - select previous or next track.
11. Play/Pause button.
12. Stop playback button.
13. Mute button.
14. A→B - for playback of defined section of track.
15. REC Play - playback recorded audio.
16. Folder selection buttons.
17. Volume level adjustment.
18. Keypad 0-9 - for selection of track numbers.
Note: the track number will be the "serial" number in all folders.

Audio Player Display

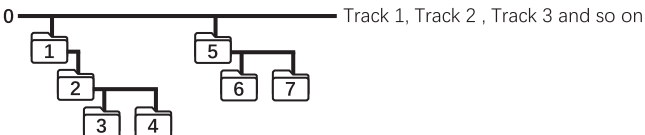


USB	Audio source from USB drive
SD	Audio source from SD card
REP1	Repeat of the track
REP1 ALL	Repeat all tracks of the folder
ALL	Repeat all tracks in all folders
RAN	Play randomly in all folders
▶	Play the track
▬▬	Pause the track
A→B	Play a defined section of the track
8888	(Standby) Serial number of the track in all folders (◀FOLDER▶) Folder number
88:88:88	Time of the track (HH:MM:SS)
🔇	Mute the track
■■■■■■■■	Volume of the track

Track Playback Sequence

Tracks will be played back in the following sequence.

- First tracks which are not saved in any folder in the root directory will be played (folder 0)
- Then tracks in the 1st folder with its subfolders start to play.
- Tracks in 2nd folder with its subfolders will start to play and so on.



Audio Player Operation



Recording

1. Recording will be saved in USB drive or SD card which needs to be defined beforehand via press of the "MOD" button.
2. Before recording, make sure the volume of audio source is appropriately set to avoid failure.
3. When the audio player is at a PLAY status, press and hold REC for 1.5 seconds until REC shows on the display.
4. Short press REC again to enter.
5. When «00:00:01» displays on the screen, the audio player begins to record audio signals.
6. Short press REC to pause or continue the recording.
7. Press and hold REC for 1.5 seconds to finish recording and save it to the designated storage device.
8. Press and hold REC for 1.5 seconds again to leave recording mode.

Note: Audio signals listed below will be recorded. Wireless microphones (duo receiver), wired microphones (6.35mm/XLR combo socket), 3.5mm audio input, Bluetooth (only audio from the Bluetooth enabled device applicable).



Playback Recorded Audio

1. To play recorded audio, press REC PLAY to enter playback mode.
2. Select any recorded audio using the track control buttons.
3. Selected recorded audio will play automatically.



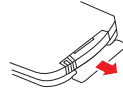
A→B Playback

1. Press A→B at the start and end of the section you want to playback.
2. Audio player will then play defined section of the track.
3. Press A→B again to exit.

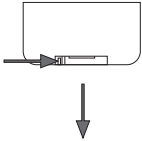
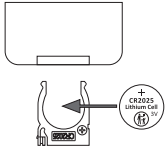
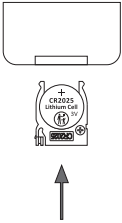
Remote Control

A 3V button battery CR2025 is equipped with the remote control. Follow instructions below to remove protective film which is inserted to avoid power consumption during transport.

Remove protective film.



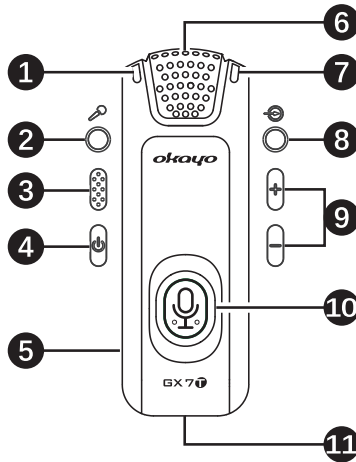
To replace the battery follow the instructions below.

<p>STEP 1. To take battery out, push the latch to right as arrowed below.</p> 	<p>STEP 2. Ensure the polarity of battery CR2025 is correctly placed when new battery is installed.</p> 	<p>STEP 3. New battery is changed.</p> 
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Microphone Transmitters

Bodypack transmitter.

Optional C7324 lapel microphone or C7237 headband microphone can be plugged into this transmitter for hands free operation. When external microphone is plugged in, the microphone on the body of the transmitter is muted.



1. Microphone indicator.
GREEN: Microphone is on.
RED: Microphone is muted.
2. 3.5mm TS microphone input.
3. Pairing button.
4. Power button.
5. In-built lithium battery.
6. In-built microphone.
7. Link / battery indicator.
Steady BLUE/RED: Linked with receiver and battery power is full/low.*
Quick flashing BLUE/RED: Pairing is in process and battery power is full/low.*
Slow flashing BLUE/RED: Not linked with receiver yet.
8. 3.5mm TRS audio input.**
9. Microphone gain adjustment (+/-).
1. Press and hold ± or = for 3 seconds to enter.
2. Link/battery indicator flashes to indicate the microphone level.
 - Level 1(min.): Flashes once.
 - Level 2: Flashes twice.
 - Level 3: Flashes 3 times. (default).
 - Level 4: Flashes 4 times.
 - Level 5 (max): Flashes 5 times.
10. Backlit microphone button: GREEN on, RED muted.
11. USB-C charging port.

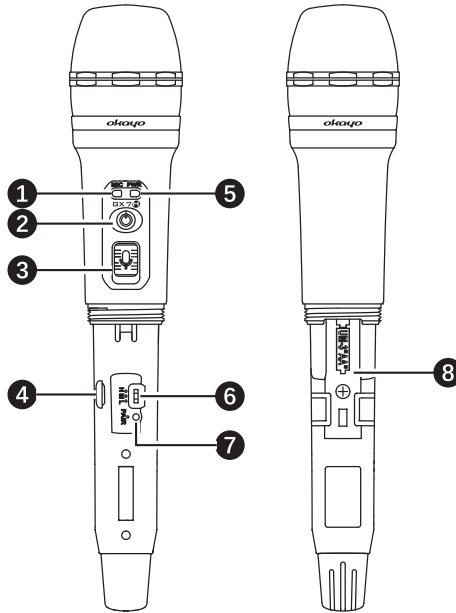
Notes:

* Charge the transmitter immediately when battery power is low.

** Microphones will be muted when external audio source is connected. Remove this connection to activate the microphone.

Microphone Transmitters

Handheld transmitter.



1. Microphone indicator.
GREEN: Microphone is on.
RED: Microphone is muted.
2. Power button.
3. Microphone switch:
Slide UP: Microphone is ON.
Slide DOWN: Microphone is muted.
4. USB-C charging port (for rechargeable batteries only)
5. Link/battery indicator:
Steady BLUE/RED: Linked with receiver and battery power is full/low.*
Quick flashing BLUE/RED: Pairing is in process and battery power is full/low.*
Slow flashing BLUE/RED: Not linked with receiver yet.
6. Microphone gain switch.
H: High
M: Mid (default)
L: Low
7. Pairing button.
8. Battery compartment (2xAA batteries).

Notes:

* Charge the transmitter immediately when battery power is low.

Troubleshooting.

Power.

Power LED Off	Check mains lead is connected properly.
	Check if in-built battery power is sufficient.
	Check if power switch is on.
Power switch ON but power LED off.	Check if mains lead is correctly connected.
	Check if in-built battery power is sufficient.
	Check if in-built battery is installed.
	If mains lead and battery have been checked but the power LED still fails to illuminate, contact your supplier for help.
Shortened battery life.	Check if battery is fully charged.
	If battery life still deteriorates, contact supplier for assistance.

Sound.

Power LED on but no RF sound (wireless microphone).	Check if receiver module knob is turned clockwise and powered on.
	Check if the microphone/transmitter is paired.
	Check if mic gain is correctly set on microphone/transmitter.
	Check if paired microphone/transmitter is accidentally muted. RF LED flashes.
Power LED on but no sound via audio player.	Check if volume level is correctly set on both the portable sound system and audio player.
	Check if audio contents are correctly file types (supported formats are MP3, WMA, WAV).
	Check if audio contents exist in the selected audio source (SD card or USB drive).
Power LED on but no sound via Bluetooth, 3.5mm input or 6.35mm input.	Check if volume level of correctly set on both portable sound system and audio source.
	Check if audio cables are completely plugged in.
Distorted sound.	Check if master volume level is set correctly.
	Check if microphone gain is set correctly.
	Check if wireless interference exists from other devices.
	Check if level of audio signal is too high.
	Check if the audio source is too loud.
Unwanted feedback.	Stay behind the speaker when speaking into the microphone.
	Ensure microphones are not pointed toward the speaker.
	Keep microphones away from the speaker.
	Reduce the volume level on both speaker and microphones.

TWS connection.

Failed to connect two speakers via Bluetooth	Recommence pairing instructions shown on page 8.
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PA System Specifications

Portable PA System (C7230)

Power	60W RMS, 80W Max.
Driver	8" full range speaker, 2" tweeter
Run time	>8 hours
Bluetooth	BT 5.0, TWS supported
Speaker output	2 pole SpeakON connector
USB-A port	2 x 5V @ 0.5A
Battery	Lithium iron phosphate battery, 12.8V, 6Ah
Charge time	<4 hours
Power input	100-240V AC, 50-60Hz / DC 20V
Operating temperature	0°C - 40°C
Dimensions	292W x 473H x 230Dmm
Weight (inc battery)	approximately 7kg.

Extension Speaker (C7231)

Power	60W RMS
Driver	8" full range speaker, 2" tweeter
Speaker input	2 pole SpeakON connector
Dimensions	292W x 473H x 230Dmm
Weight	approximately 6kg.

Audio Player (included with C7230)

Display	LCD
Output level	570mV
Media supported	USB 2.0, SDHC
Audio format supported	MP3, WAV, WMA
Remote operating range	3 metres

Transmitter Specifications

Bodypack transmitter

In-built micriphone	Electret condenser
Battery	Li-ion polymer battery
Run time	> 13 hours
Charging time	2-4 hours
Operating temperature	-10°C to 60°C
Dimensions	35W x 98H x 35Dmm
Weight	90g

Handheld transmitter

In-built micriphone	Dynamic insert
Battery	2 x AA battery (must be rechargeable type if using recharge function)
Run time	> 17 hours
Operating temperature	-10°C to 60°C
Dimensions	49Ø x 262mm
Weight	250g

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) Calling your nearest store location 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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