



Operating Instructions

C 7182C	<i>PA with UHF Wireless Mic Receiver</i>
C 7184C	<i>PA with UHF Wireless Mic Receiver & CD Player</i>
C 7192C	<i>Wireless Handheld Mic</i>
C 7193C	<i>Wireless Handheld Condenser Mic</i>
C 7195C	<i>Beltpack Transmitter</i>



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

- C 7187C: Additional UHF dual wireless microphone receiver module
- C 7189C: Wireless link transmitter module
- C 7196A: Beltpack charging pod
- C 7197A: Lapel microphone to suit beltpack transmitter
- C 7198A: Headset microphone to suit beltpack transmitter
- C 7188: Bluetooth module
- S 5078: Replacement battery 2.9Ah.

Okayo Portable PA System

This compact portable PA system features a sturdy, lightweight injection moulded cabinet. The system includes a high power 60W (RMS) amplifier and can be supplied with an MP3 compatible anti-skip CD player and up to two wireless microphone receivers. The in-built amplifier has balanced or unbalanced wired microphone inputs, plus line in and line out RCA connections. The radio microphone receivers are 96 channel, allowing easy selection of non-interfering frequencies. Each receiver includes individual frequency adjustment and volume control. The system is supplied with in-built batteries and a charging facility to provide 3-4 hours continuous use. The two way speaker system comprising an 8 inch woofer and high frequency horn, ensures excellent sound quality for both music and speech reproduction. Weighing only 12kg it is truly portable and allows a wide range of uses in schools, places of worship, clubs, auctions etc. Sets up in just seconds for instantaneous use.

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 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 adjusted to receive the signal from the wireless link.

C 7187C Optional UHF dual wireless microphone receiver: Installation of this module adds two extra wireless microphones to the Portable PA.

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 battery pack. When operating for the first time the internal battery 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

NOTE: Remove the SLA battery when the unit is not in use for prolonged periods. It is important to the battery is recharged every couple of months to retain charge integrity.

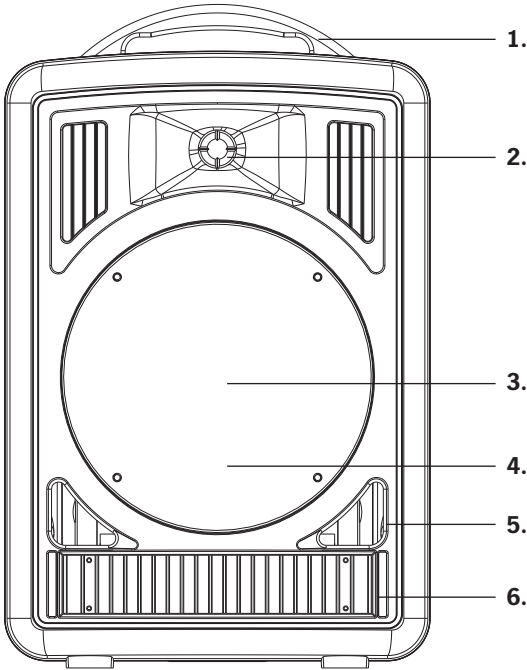


Figure 1: Front

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

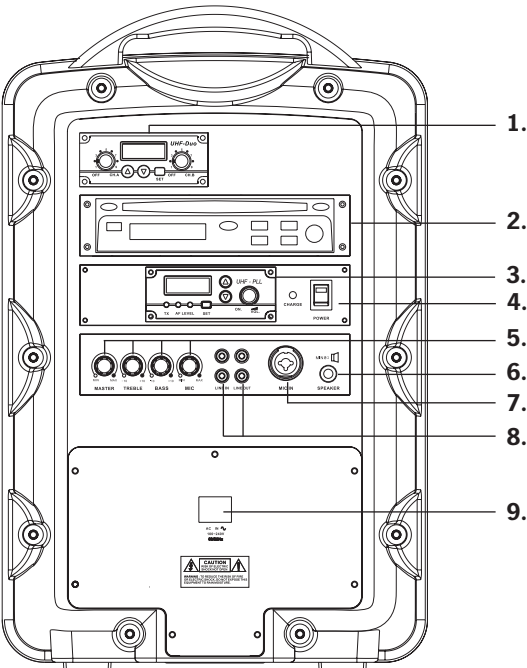


Figure 2: Rear

(shown configured with 2 x UHF wireless microphones & CD player)

1. Dual UHF receiver module-- (blanking panels fitted in base models)
2. CD/MP3/USB player
3. **C 7189C** Optional wireless link transmitter
4. Power switch & charge indicator (this panel is replaced when adding a wireless link)
5. Mic, treble, bass and master level controls
6. Speaker out (8Ω)
7. Mic input (6.35mm / 3 pin XLR)
8. RCA line in/out
9. 240V AC input

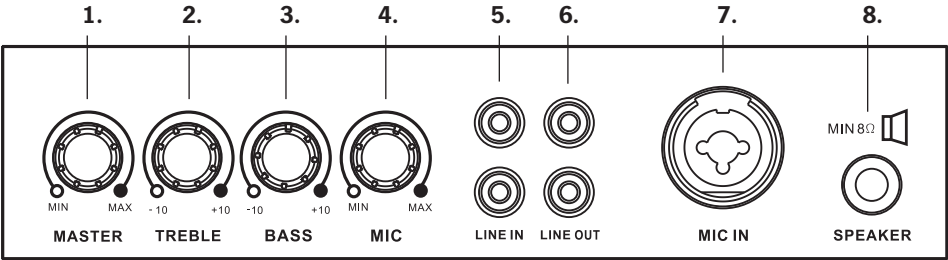


Figure 3: Level Adjustment & Input/Output Module (Models C 7182C and C 7184C)

1. Master volume level

2. Treble level

3. Bass level

4. Wired mic volume level

5. RCA stereo line input

6. RCA stereo line output

7. XLR / 6.35mm TRS wired mic input

8. Speaker out (8 Ohm)

Level Adjustments and 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 effect all system inputs, when set to half way sound output 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).

If an external speaker is required, it can be connected to the portable PA system via 6.35mm jack (Figure 3 only). Note: this feature is designed for 8 ohm minimum impedance speakers. Overall amplifier output will be split between both speakers when in use.

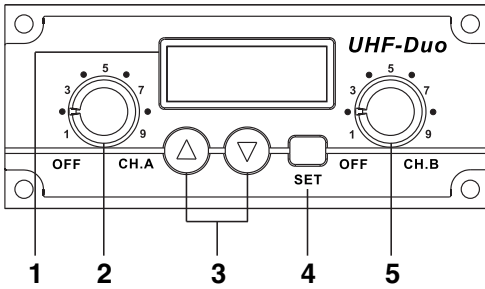


Figure 4: UHF Wireless Mic Module

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 4.

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.

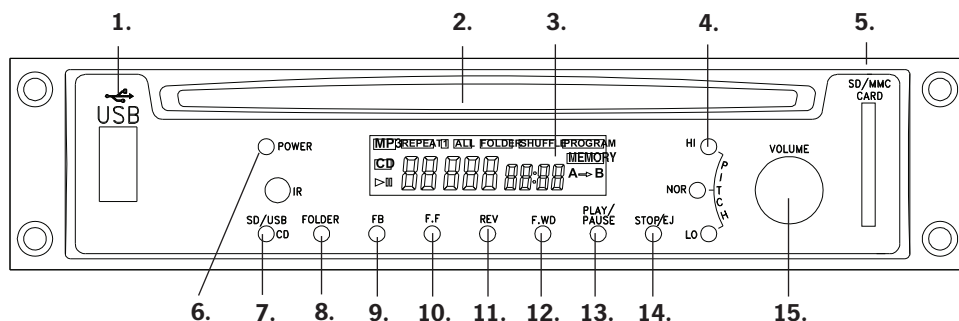








Figure 5: CD/MP3 Player Module

- | | | |
|---------------------------------|-------------------------------|------------------------|
| 1. USB port | 6. Power switch | 11. Track skip reverse |
| 2. CD slot | 7. SD/USB/CD 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. Volume level |

CD/MP3 Player (C 7184C Model Only) - Figure 5.

1. Turn the 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 shows 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).







SD/MMC Card:

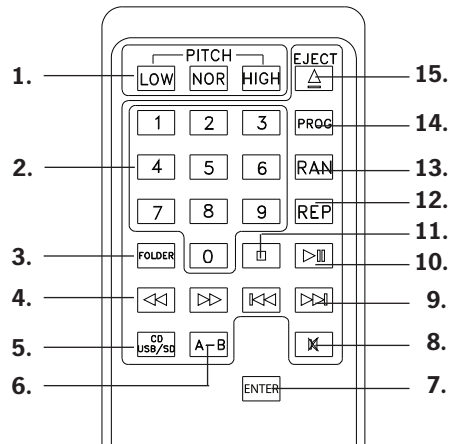
- Insert SD Card or MMC Card into the SD/MMC CARD slot on the front panel. Push the card into the slot until it clicks into the slot.
- When taking the card out, ensure that you hear it click that releases the card and then remove.
- Do not use force to pull the card out as this may cause damage to the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

**Figure 6: CD/MP3/USB
Player Remote Control**

1. HIGH / NOR / LOW pitch controls
2. 0-9 Track programming and selection
3. FOLDER Choose track directory (MP3 only)
4.   Track search reverse / forward
5. CD / USB / SD source selection
6. A>B (replays a section of track)
7. ENTER Track programming enter button
8. Muting
9.   Track skip reverse / forward
10.  Play/pause
11.  Stop playback
12. REP Repeat / repeat all function
13. RAN Random or shuffle playback mode
14. PROG Track programming mode
15. EJECT CD player eject



Remote Functions (C 7184C Model Only) - Figure 6:

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.



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

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

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 will display "MEMORY" and the song number playing. To cancel 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.

Fitting Additional Modules

Fitting C 7187C UHF Dual 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 wireless microphone module in, ensuring the board slots into the connector at the rear of the empty expansion bay.
4. Screw the module into the rear panel.

Internal Layout Of Portable PA Input/Output Board

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.

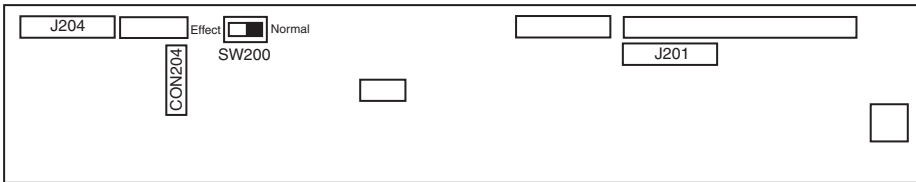


Figure 7: Rear of PA Input/Output Board.

Fitting C 7189C Audio Link Transmitter

1. Ensure portable PA is NOT connected to mains power. Disconnect all input cables.
2. Unscrew the blanking panel and disconnect the power cables from the main board.
3. Locate switch SW200 on the main board inside and ensure it is set to NORMAL (factory default).
4. Locate jumpers J201 and J204 on the main board inside. Connect the power cable from the wireless link transmitter to J201 and the signal cable to J204.
5. Screw unit back together.

Transmitter Operation - Figure 8 & 9.

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.

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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.

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.

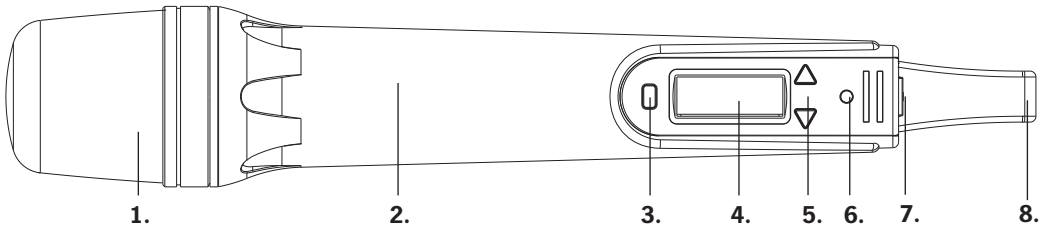
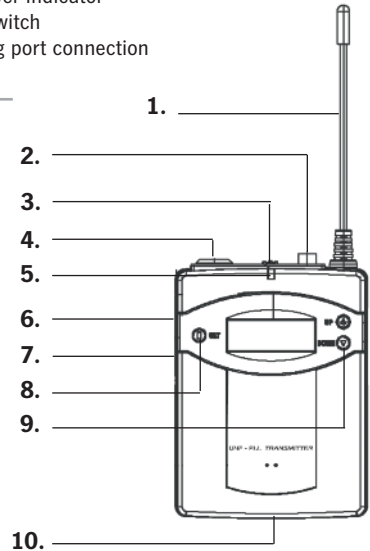


Figure 8: Handheld UHF Wireless Microphone (C 7192C/C 7193C)

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

Figure 9: Beltpack UHF Wireless Transmitter (C 7195C)

1. Aerial
2. Mute button (top)
3. On/off switch (top)
4. Mini XLR 3 Pin 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



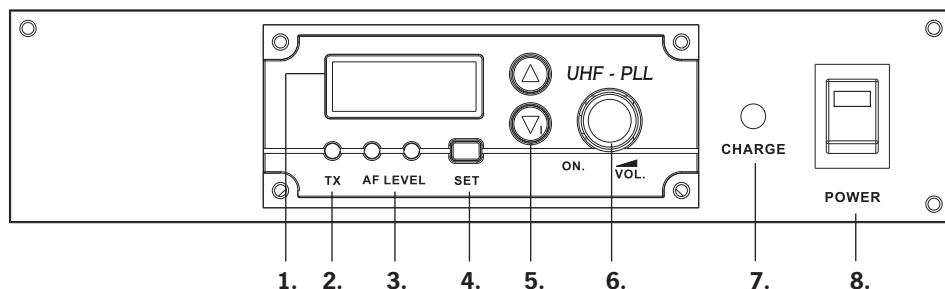


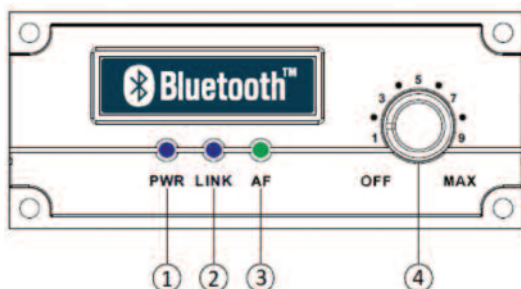
Figure 10: Audio Link Transmitter (C 7189C)

- | | |
|-----------------------------|---|
| 1. LCD screen | 5. Up/down frequency adjustment buttons |
| 2. TX audio indicator | 6. Power switch & mic level control |
| 3. AF audio level indicator | 7. Battery charging indicator |
| 4. Frequency set button | 8. System power switch |

Audio Link Transmitter (C 7189C) - Figure 10.

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.

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.



1. Power indicator
2. Bluetooth connectivity indicator
3. Audio frequency indicator
4. ON/OFF Volume switch

Figure 11: Bluetooth® receiver module C 7188

Operation of C 7188 Bluetooth Receiver - Figure 11.

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. Your 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.

Table 1: UHF Wireless Channel Guide

520-544MHz											
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) 1 2 4 05 (2) 6 7 8 10 (3) 09 11 12 13 (4) 15 16 17 18
(5) 19 21 22 25 (6) 26 27 28 29 (7) 35 36 37 39 (8) 62 63 64 65
2. Use 8 channels at the same time
(1) 1 2 4 5 6 13 16 19 (2) 35 36 37 38 39 41 44 46
3. Use 12 channels at the same time
(1) 1 2 4 5 6 13 16 19 20 21 25 34 (2) 35 36 37 38 39 41 44 46 47 53 54 55

Specifications

Portable PA Amplifier

Sensitivity	95dB 1W @ 1m
Maximum SPL	112dB
Frequency Response	20Hz to 20kHz
Output Power	60W RMS
Signal to Noise Ratio	<70dB
Inputs.....	XLR 3 pin, 6.35mm TRS, stereo RCA
Outputs	Stereo RCA line out, Speaker out 6.35mm (8 ohm)
Controls	Master volume, bass, treble, line volume,
Power	96-264V AC/32V DC switching power supply
Battery	12V, 2.9Ah x 2 (sealed lead acid)
Operating Life (fully charged)	3-4hrs
Charging Time	4-6hrs
Dimensions	300 x 230 x 470mm
Weight	12kg

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 Transmitters (C 7192C/C 7193C)

Mic Insert C 7192C:	Dynamic
Mic Insert C 7193C:	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 7189BC)

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	50-70m (line of sight)

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.

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• Perth • Sydney • Melbourne
Phone: 1300 780 999 Fax: 1300 790 999
Internet: www.altronics.com.au