

Simeon Audita III



User manual - Page 1

Your new Audita III system provides convenient and portable wireless soundfield amplification. The system requires no installation, can be set up in any classroom or meeting room and is easy to transport. It can be used with a Simeon Omnipanel accessory speaker (optional), giving the portable system even more efficient performance for use in larger spaces.

The Audita III system includes the following components:

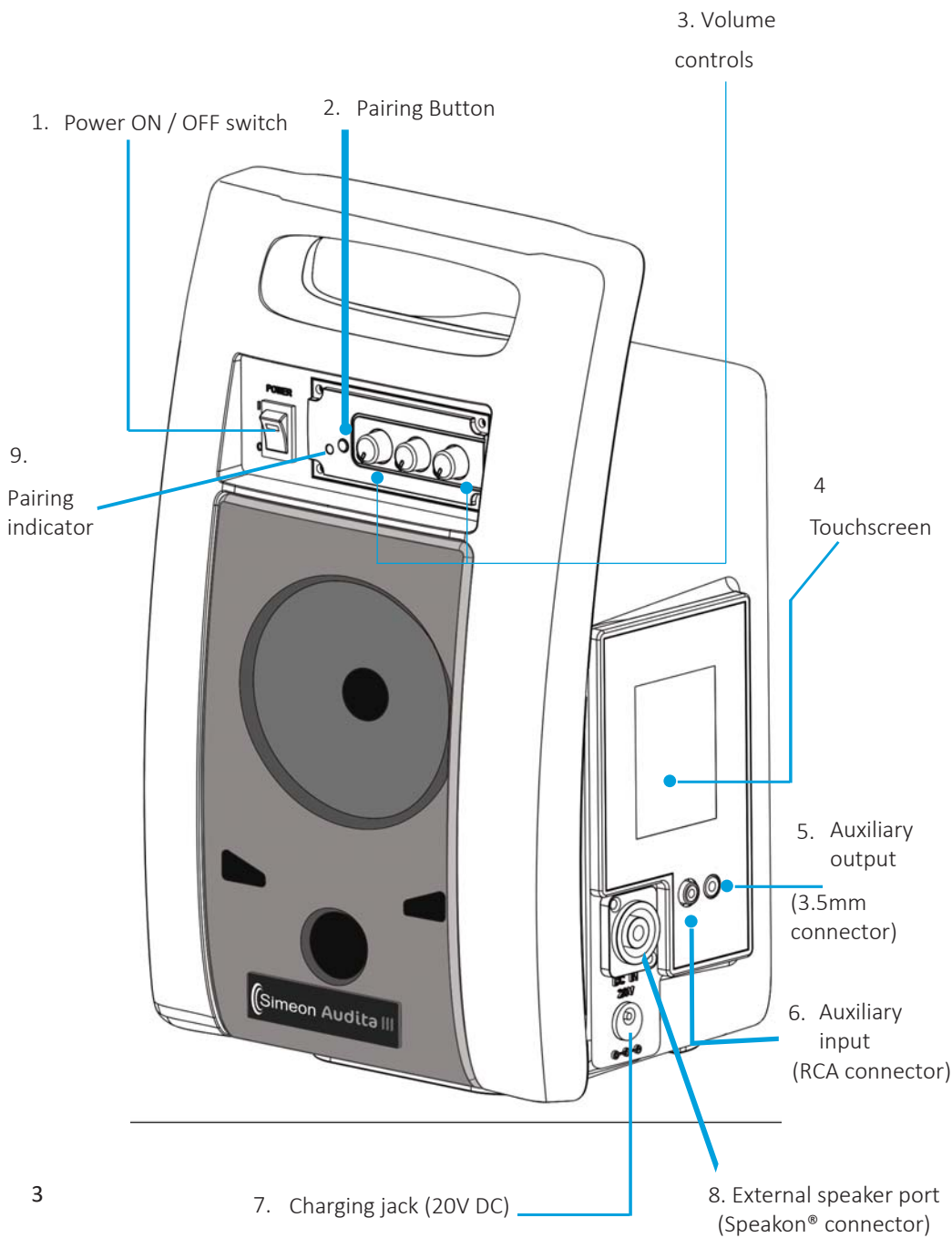
- Wireless receiver / speaker unit with triple receiver module
- Wearable pendant transmitter
- Wireless handheld transmitter / microphone
- Directional boom (headset) microphone 625
- Charging cradle 703 for three transmitters
- Rechargeable batteries

Optional accessories for your system include:

- Totebag for complete Audita III system
- Folding tripod stand for receiver
- Wall-mounting bracket for receiver
- Connector cables for peripheral audio devices
- Omnipanel flat-panel loudspeaker for larger rooms
- Tripod stand for Omnipanel flat-panel speaker

Setting up your Audita III

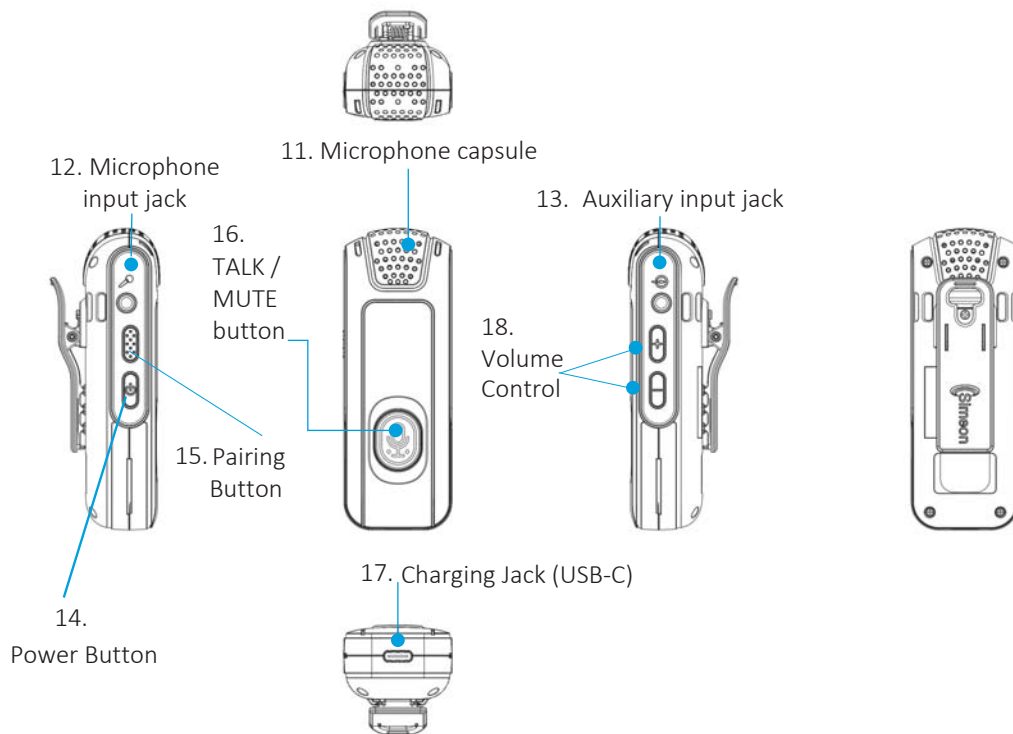
Fig. 1



Audita III portable receiver / speaker

It is recommended that you charge the receiver fully before its initial use. Identify the correct power adapter for the receiver. **Caution: do not use non-standard power adapters to charge your system.** Plug in the receiver to charge the battery [10]. Make sure the receiver is OFF while it is charging [1]. It takes up to 15 hours to fully charge the receiver. The battery status indicator will scroll through a sequence of coloured lights during charging. A continuous green light indicates when charging is complete.

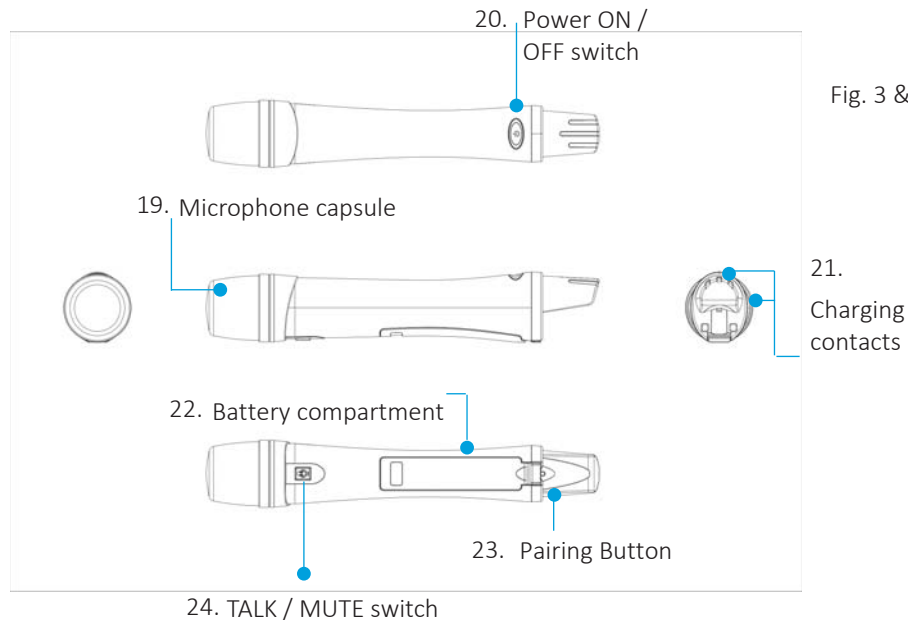
The transmitter and receiver channels will have been assigned before shipping. There should be no need to pair.



Pendant transmitter 7T and 7M

The 7T Transmitter offering excellent sound quality and performance.

The pendant transmitter can be used with its built-in mic, with a boom (headset) mic, or it can be connected to other audio inputs. The pendant transmitter may be worn around the neck or at the waist when used in conjunction with a boom (headset) mic. It is recommended that you charge the transmitter fully before its initial use. Pendant transmitters 7T and 7M use an internal rechargeable lithium battery. Use only with the recommended Simeon charger supplied with the transmitter.

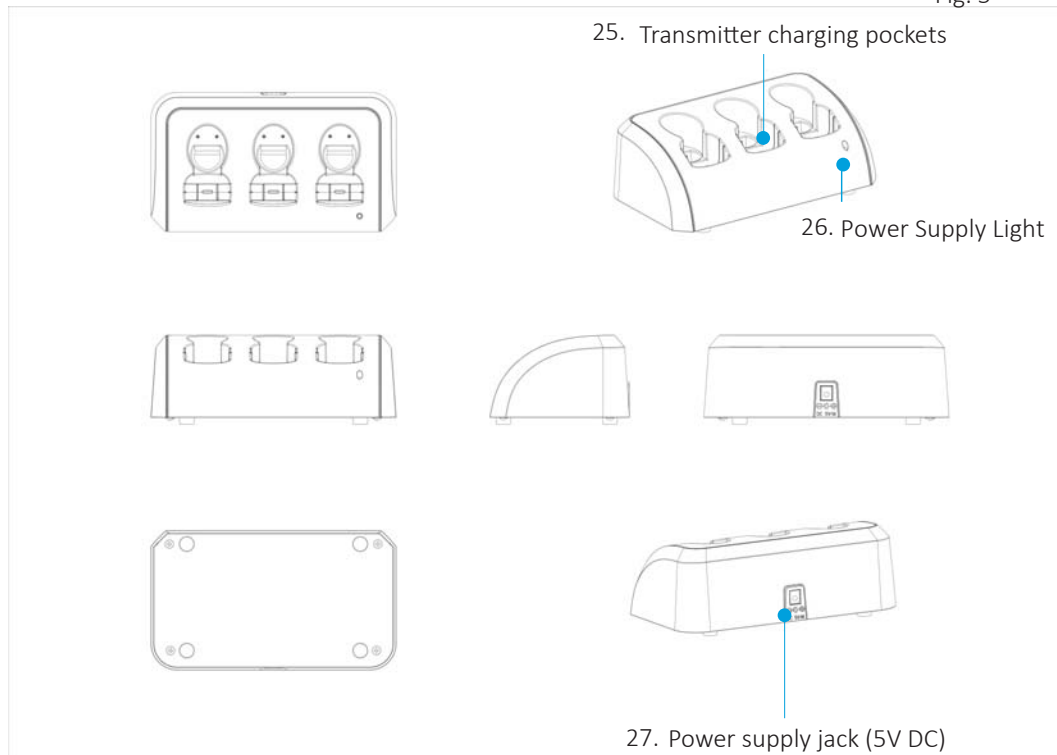


One of the best way's to integrate external audio from an interactive white board, or computer by plugging directly into the the pendant's auxiliary input jack. A teacher can still use a pass-around mic to speak over the video if desired.

Handheld transmitter / microphone models 7T and 7M

The standard Audita III delivery package includes a handheld wireless pass-around transmitter. The handheld is supplied with two AA size NiMH batteries. It is recommended that you charge the batteries fully before use. The handheld transmitter should be charged only with the charging cradle included with your system. Place the batteries into the battery compartment [22], taking care to observe the correct battery polarity. **Never use disposable (alkaline) batteries in combination with the charging system.**

Fig. 5

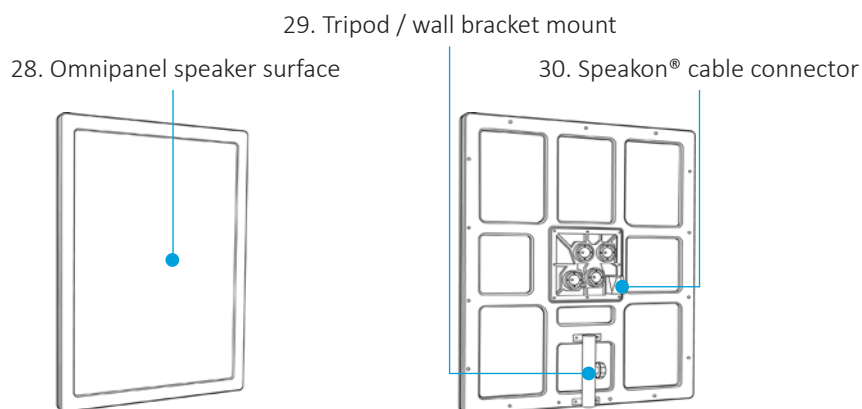


Charger 703 transmitter charging cradle

The charging cradle will accept any combination of three Audita pendant or handheld transmitters. Connect the power adapter to the charging cradle [27]. Place the transmitters into the charging pockets [25], facing forward. The transmitters will turn off automatically when they are placed in the charging cradle. A steady red ON charging indicator will light during charging; a steady green indicator will light once charging is complete [26]. Internal charging circuitry will sense when charging is complete and will terminate charging automatically.

Flashing red indicates a failure to charge. This may occur if the batteries are already fully charged or if the wrong or defective batteries are used.

Fig. 6 & 7



Accessory Omnipanel flat-panel loudspeaker (optional)

The optional Omnipanel speaker can be used to enhance acoustic performance for larger rooms and provides outstanding speech intelligibility. The lightweight flat-panel speaker can be wall-mounted easily or set up on a tripod stand. A Speakon cable connects the Omnipanel speaker to the Audita III receiver. Connect the Speakon connector into back of the Omnipanel [30] and rotate it to the right to lock it in place. Do the same on the side panel of the Audita III receiver [4].

Important: select the External Speaker setting on the Audita touchscreen (press icon for 3 secs) to transfer sound from the internal speaker to the Omnipanel.

To disconnect the Speakon cable, pull back on the connector latch and rotate the connector to the left to remove it. Be sure to cancel External Speaker (press the icon on the touchscreen) to reactivate the Audita internal speaker when the external Omnipanel speaker is no longer connected.

Operating the system

Using the Audita III portable receiver / speaker

Check the position of the three volume controls [3] on front of the receiver. There are three independent volume controls - one for each transmitter. If you are using your system for the first time, set at a low volume level before turning the system on. Turn the receiver ON at the master power switch on the front of the speaker [1]. A green or blue light indicates that the receiver is on and ready to use.

Your Audita III is delivered with transmitters already paired and the system is ready to use.

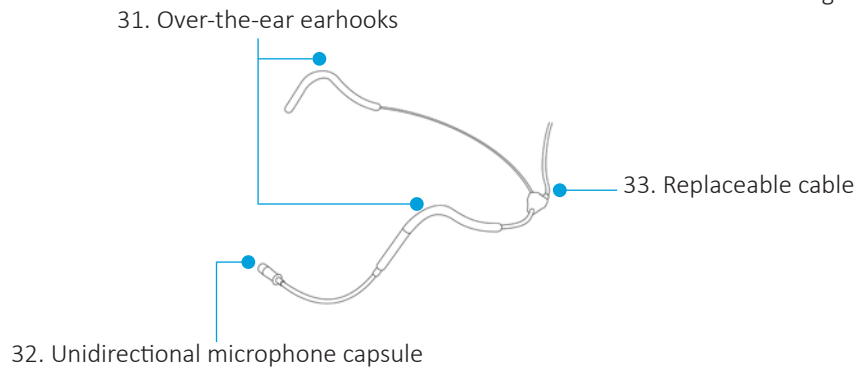
Using the pendant transmitter

To turn the pendant transmitter ON, press the power button [14] on the side for 3 seconds. To turn the transmitter OFF, press and hold the power button for 3 seconds.

The pendant transmitter has a built-in directional microphone [11]. When wearing the transmitter around your neck, adjust the lanyard length so that the pendant microphone is in the best position to pick up your voice - usually about **20cm** below the mouth. If you would prefer to wear the transmitter at waist level, you will need to use the 625 boom (headset) accessory microphone supplied with your system. The pendant transmitter has a microphone input jack [12] for connecting the boom mic. Note that there is also an auxiliary input jack [13], which is used only for connecting to external audio devices to the transmitter.

As an alternative to using the transmitter charging cradle, the pendant transmitter can be charged directly by plugging a USB-C cable into the USB-C charging jack at the bottom of the pendant transmitter. [17]. Use only the recommended charging adapter for direct charging of the pendant transmitter.

Fig. 8



Using the boom microphone accessory

A directional boom (headset) microphone is supplied with your system as a standard accessory. The boom microphone picks up speech very closely, improving performance in noisy environments, and will help to avoid any acoustic feedback.

Plug the microphone into the 3.5mm **microphone** input jack on the top of the transmitter [12]. Note that if the microphone is inserted into the auxiliary input jack speech will not be amplified. Place the frame earhooks [31] over your ears and adjust the boom arm to position the mic capsule [32] to point to the corner of your mouth. It is not necessary to place the microphone in front of your lips and doing so may diminish sound quality. The boom microphone frame can be adjusted to rest comfortably over both ears, with no other contact or pressure points against the head or face.

Using the handheld transmitter / microphone

To turn the handheld transmitter ON, press the power button [20] for 3 seconds.

To turn the transmitter OFF, press and hold the power button for 3 seconds.

There is a separate MUTE button [21] located on the back of the handheld transmitter. The mute button will be lit by a green indicator when the transmitter is in TALK mode, and by a red indicator when it is muted.

The microphone capsule of the handheld transmitter [20] is highly directional. Hold the microphone close and pointing directly towards the mouth for best acoustic performance.

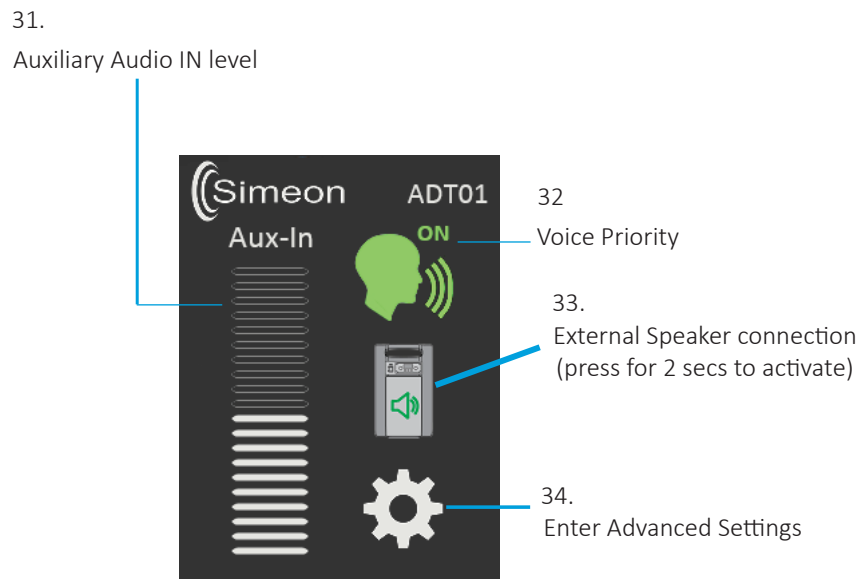
External connections

The side panel of the Audita III receiver has three audio connectors of different types - each has a specific function:

- **Speakon port** for attaching an external accessory loudspeaker (Simeon Omnipanel).
- **RCA connector** for input of audio devices or bluetooth, or via auxiliary input jack on the pendant, such as computers, **into** the Audita III receiver
- **3.5mm mini jack** for sending audio **from** your Audita III system to other devices, such as personal FM systems or to audio recorders. All of the external connections for the receiver are controlled through the touchscreen menus.

Audita III touchscreen controls

Basic Settings menu



Auxiliary Audio IN level will adjust the volume for any device, such as a computer, that is connected into the RCA connector.

Voice Priority feature gives your transmitter microphones priority over the audio input from a computer etc. This feature allows you to be clearly audible when you are giving commentary on an audio-visual presentation, or for Q & A. Press the icon once to activate / cancel Voice Priority.

External Speaker setting is used whenever an accessory speaker (Simeon Omnipanel) is connected to the Speakon port. Press the icon for 2 seconds to activate the external speaker connector. The icon will flash to alert you that External Speaker is active and the Audita II speaker is muted. To cancel External Speaker, press the icon briefly.

Advanced Settings icon accesses a secondary menu

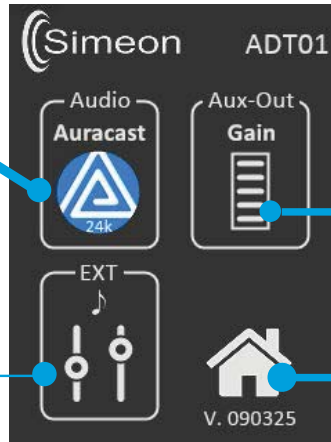
Advanced Settings

To enter the Advanced Settings menu, you no longer require a pin for access.

Advanced Settings Menu

Auracast/Bluetooth Toggle

Speaker Tone Control
(bass / treble)



Auxiliary Audio
OUT level

Exit Advanced
Settings

Auracast/Bluetooth Toggle Switch between Auracast and bluetooth setting. Press and hold the button to toggle. Bluetooth is for audio in from an external source. For example, an interactive white board or computer. While in bluetooth mode, the Auracast signal is off.

Auxiliary Audio OUT level adjusts the overall gain of the 3.5mm mini jack output of the Audita II receiver. Adjustment of the auxiliary audio OUT level will not affect the loudspeaker volume.

Speaker Tone Control adjusts the treble and bass tone of the Audita III loudspeaker.

Exit Advanced Settings will return you to the Basic Settings menu.

Battery care and charging

The pendant transmitter uses a lightweight lithium rechargeable battery. This is not user-replaceable and must be changed at your service center.

Use only Nickel Metal-Hydrate (NiMH) rechargeable AA size batteries in the handheld transmitter. **Never use disposable (alkaline) batteries in the charging system.**

Charge the transmitters after each day of use. The transmitters will automatically power off when placed into the charging cradle. The charging indicator lights [29] will show charging progress - red during charging and green when complete. If the transmitter batteries are already fully charged when placed in the charging cradle, a flashing red indicator light may show.

The Audita II receiver has an internal rechargeable lithium battery pack, allowing for approximately 7 hours of normal operation on battery power. When the battery pack is depleted, the receiver can still be used with the power adapter. Full recharging of the receiver battery takes approximately 15 hours. **Replace the receiver battery pack only with the recommended type, available from your Simeon service center.**

Before storing your system for prolonged periods, charge the transmitter and receiver batteries fully and remember to turn the equipment off.

Microphone care

The boom (headset) microphone is the most delicate component of your soundfield system. Protect the microphone cable from strain and excessive force. A spare microphone cable is included with boom microphone model 625 for your convenience. Clean the pin of the microphone plug regularly and replace microphone cable if it becomes damaged. The boom microphone has a unidirectional pick-up pattern. The tip of the mic capsule must be pointed towards the corner of the mouth for proper performance.

Useful tips

- For best performance, use the boom (headset) accessory microphone with the pendant transmitter.
- Adjust the boom mic headset for comfort and ensure that the tip of the microphone is positioned correctly at the corner of your mouth.
- When using the pendant transmitter without the boom microphone, adjust the lanyard strap so the transmitter is approx. 20cm from your mouth to pick up your speech effectively.
- Avoid excessive amplification - the speaker will make speech clearly audible at a comfortable listening level.
- If you have forgotten to charge the Audita III receiver and the internal battery is low, it may be operated from an AC outlet via the charging power adapter.
- Use the Voice Priority feature to be heard more effectively over any audio or music you are playing through your Audita III receiver.

Five-year limited warranty

The Audita III soundfield main system components (transmitters, charging cradle and receiver / speaker) are covered by a five-year parts and labour warranty, effective from the date of purchase. Simeon microphones, adapters and batteries are warranted for one year. Batteries are under warranty up to 1 year from purchase and rated for 1000 cycles. The manufacturer's warranty provides for repair or replacement of defective components or workmanship. Expressly not covered are damages resulting from water emersion, physical damage or unapproved substitution of components, batteries or accessories. Extended warranty coverage may be purchased under the Simeon Service Plus extended full service program.

Troubleshooting

No sound

Check that the transmitters and receiver are ON, and that the transmitters are not set to MUTE. Check that the receiver volume controls are set to an audible level. Check that Internal Speaker is selected on the touchscreen menu; if External Speaker is selected (flashing icon) the internal Audita speaker will be muted. If using the boom (headset) microphone, check that it is plugged into the microphone input jack of the pendant transmitter.

No signal

Check that the Audita III transmitters and receiver are set to matching channels and are within transmission range. Check transmitter is turned ON. Make sure the volume controls on the DR 7 module are not locked in the OFF position.

Dead batteries

First, check the battery level meter on transmitter display to confirm battery status. Check that the transmitter is making contact in the pocket of the charging cradle and that you are using the correct power adapter. Remove any tape, stickers or debris that may prevent the transmitter making good contact with the charger. Replace the transmitter batteries if necessary.

Charger flashing red light

This indicates that the charger is refusing to charge the transmitter - the batteries may already be fully charged and do not require further charging. Flashing red indicator light on the charger may also indicate defective batteries or that the wrong battery type has been installed. Check and replace transmitter batteries as necessary.

Weak sound

Check and adjust the volume setting. Adjust the microphone position. Check or replace the microphone. Check that the correct power adapter is connected to the Audita receiver.

Acoustic feedback (squealing sound from the speaker)

Check and adjust the volume settings. Ensure that the microphone is positioned correctly. Avoid approaching too close to the speaker with the microphone turned on. To guard against feedback, avoid pointing the microphone directly towards the speaker. The boom (headset) microphone accessory, when correctly worn, will minimize the likelihood of acoustic feedback.

Intermittency

Make sure transmitters and receiver are within normal operating range. If using the boom (headset) microphone, check the mic cable and the plug connection to the pendant transmitter.

Audita III technical specifications

Overall system specifications

Output power	40W (RMS)
Speaker types	5in neodymium, 1in tweeter
Audio control	Gain, Tone Control
Auxiliary input	Single RCA connector, input sensitivity 350mV
Auxiliary output	3.5mm mini plug, output level 2.5V
Speaker control	Internal Speaker / External Speaker select switch
External speaker output	Single Speakon connector, 40hm
Power requirements	100 ~ 240VAC / 20VDC, 3.25A switching power supply
Speaker battery type	14.4V, 5.3Ah (lithium-ion) rechargeable battery, user replaceable
Speaker battery meter	4 LEDs to indicate battery status
Autonomy	~ 7 hours at typical gain setting
Charging time	15 hours
Dimensions	162 x 202 x 326mm (6.5 x 8.0 x 13in)
Weight	2.51kg (5.5lb) including battery
Bluetooth	Version 5.4, support Auracast broadcast mode、 Class Bluetooth mode

With dual Triple receiver module DR7

UHF frequency range	1920 ~ 1930 MHz (DECT)
Number of channels	5
Squelch adjust OFF	-93 dBm
Total harmonic distortion	< 1%
Signal / noise ratio	> 80 dB
Audio frequency response	70 Hz ~ 15 kHz
Operating transmission range	30 ~ 50 m
Transmission latency	< 17 ms
Operating temperature	-10°C ~ +60°C (14°F ~ 140°F)
Certifications	Industry Canada, FCC

RF power -
Hi 50 m -- default
Low: 30 m

Pendant FM transmitter 7T

Internal microphone type	Electret condenser
UHF frequency range	1920 ~ 1930 MHz (DECT)
Number of channels	5
Radio signal power	High: 15 dBm; Low: 10 ±2 dBm
Operating range	30 ~ 50 m
Max modulation	3.7V 1000 mAh (lithium-ion) rechargeable,
Battery type	replaceable at service centre
Autonomy	High: 10 hours; Low: 12 hours
Charging time	3 ~ 5 hours
External microphone input	3.5mm mini plug connector
Auxiliary input	3.5mm mini plug connector
LED indicators	Mute/Talk function; Charging status
LCD display	N/A
Wearing options	Safety-release lanyard, belt clip
Dimensions	35.4 x 34.9 x 97.9 mm
Weight	55 g including battery
Certifications	Industry Canada, FCC

Handheld FM transmitter 7M

Microphone capsule	Condenser
UHF frequency range	1920 ~ 1930 MHz (DECT)
Number of channels	5
Radio signal power	High: 15 dBm; Low: 10 ±2 dBm
Operating range	30 ~ 50 m
Battery type	"AA Ni-MH rechargeable, user replaceable"
Autonomy	20 hours
Charging time	7 ~ 10 hours
LED indicators	Mute/Talk function; Charging status
LCD display	N/A
Dimensions	35.6 x 208 mm
Weight	150 g including batteries
Certifications	Industry Canada, FCC

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux CNR-102 d'Industrie Canada. Cet équipement doit être installé et utilisé avec une distance minimale de 0.5 centimètres entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisé ou opérant en conjonction avec une autre antenne ou émetteur. Les antennes utilisées pour cet émetteur doivent être installées et fournir une distance de séparation d'au moins 20 centimètres de toute personne et doit pas être co-située ni fonctionner en conjonction avec une autre antenne ou émetteur.