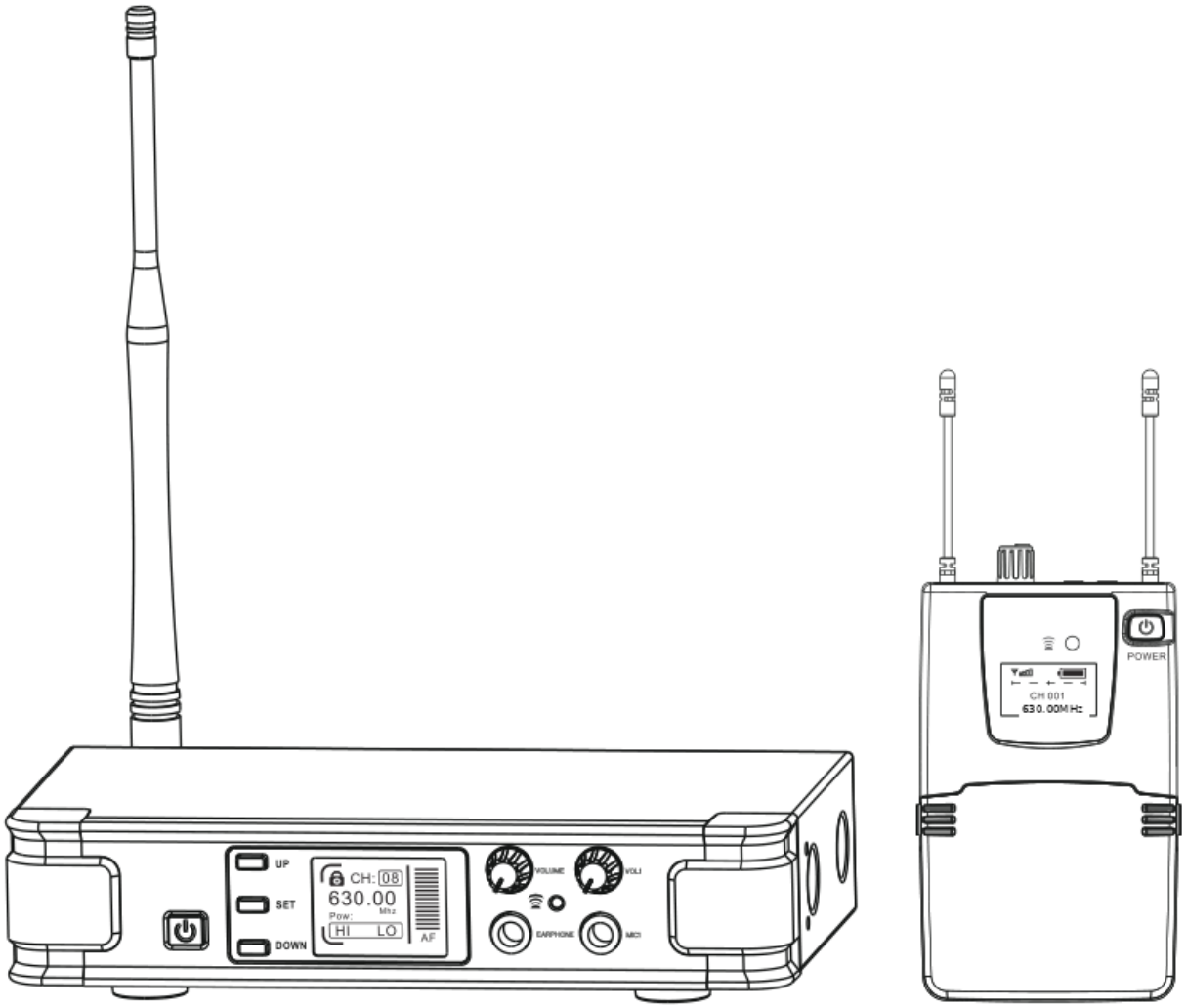
QIEM-10

Single-Channel Mono UHF Wireless In-Ear Monitoring System

99 selectable channels | IR synchronisation | 1 bodypack receiver



MODEL
QIEM-10

PRODUCT
Single-Channel Mono UHF Wireless In-Ear Monitoring System

Read this manual before operating the system. Retain it for future reference.

Important Safety Information

Protect your hearing

- Always turn the bodypack headphone level to minimum before inserting earphones or switching on.
- Increase volume gradually. High sound pressure levels can cause permanent hearing damage.
- Do not remove an earphone during a loud performance without first reducing its volume.

Electrical and general safety

- Use only the specified power adaptor and confirm that its output matches the transmitter rating.
- Keep the transmitter, bodypacks and connectors dry. Do not expose the equipment to rain or splashes.
- Keep the unit away from excessive heat, open flames and blocked ventilation openings.
- Disconnect the power adaptor before cleaning or servicing. Do not open the enclosures.

Battery and RF safety

- Insert AA batteries according to the polarity markings. Do not mix used and new batteries.
- Remove batteries if the receiver will be stored unused for a prolonged period.
- Only use operating frequencies permitted at the venue and in the country of use.

> **!** **Before every performance**
> Check the selected channel, the receiver signal indication and a safe headphone level. Never rely on the IEM system as the only method of communicating critical safety instructions.

Product Overview

The Q-Audio QIEM-10 provides a single mono wireless monitor mix for performers. Its half-rack transmitter offers three individually adjustable audio inputs and a 99-channel UHF RF link. One antenna-diversity bodypack receiver with OLED display is included.

Key Features

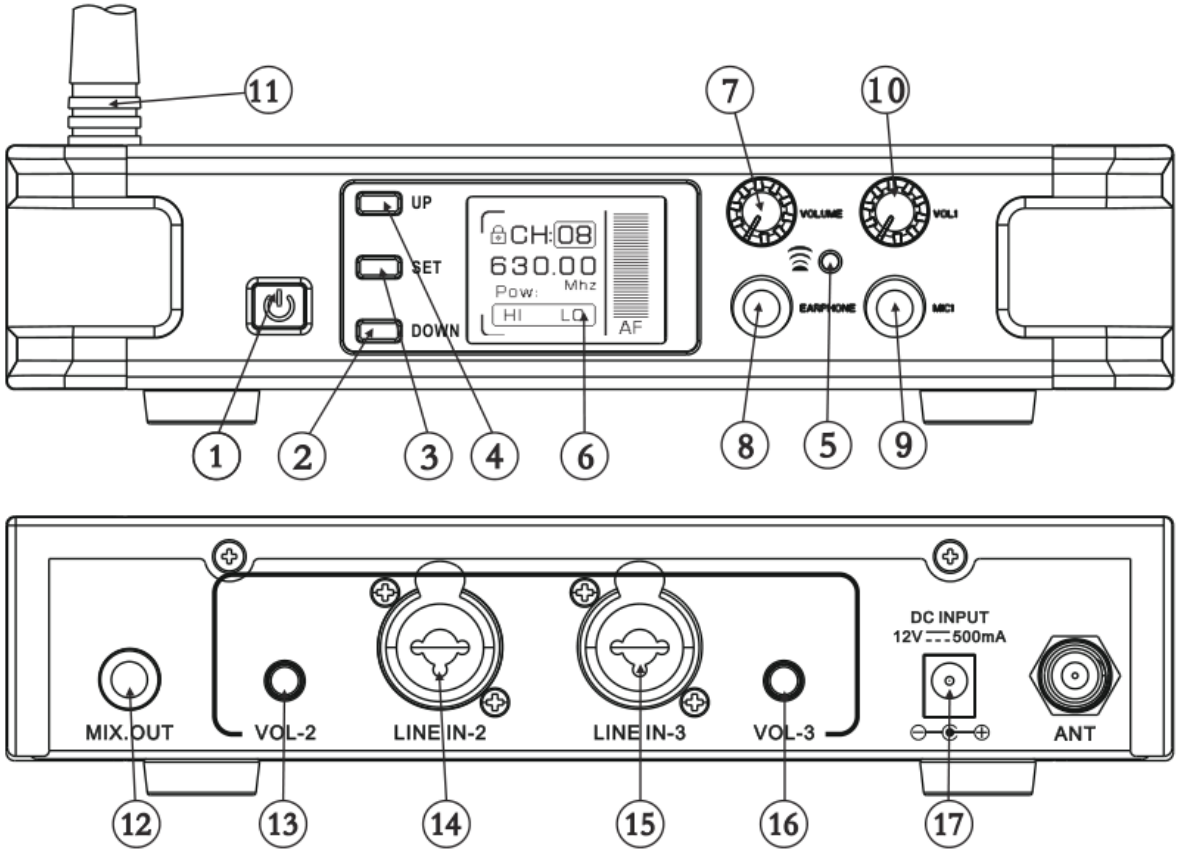
- Mono wireless in-ear monitoring with 99 selectable UHF channels.
- Three adjustable audio inputs: front-panel 6.35 mm microphone and two rear-panel XLR/6.35 mm combination sockets.
- TFT transmitter display with channel, frequency, RF power and audio indication.
- Infrared frequency synchronisation between transmitter and bodypack.
- Adjustable high/low RF transmission power and antenna-diversity receiver.

Package Contents

Item	Supplied quantity
QIEM-10 half-rack transmitter	1
Bodypack receiver	1
In-ear earphones	Included
RF antenna	1
Audio cable	1
Power adaptor	1
AA batteries, 1.5 V	2
User manual	1

Transmitter Controls and Connections

The numbered line drawing identifies the transmitter controls and sockets. The unit provides one mono RF monitoring channel.

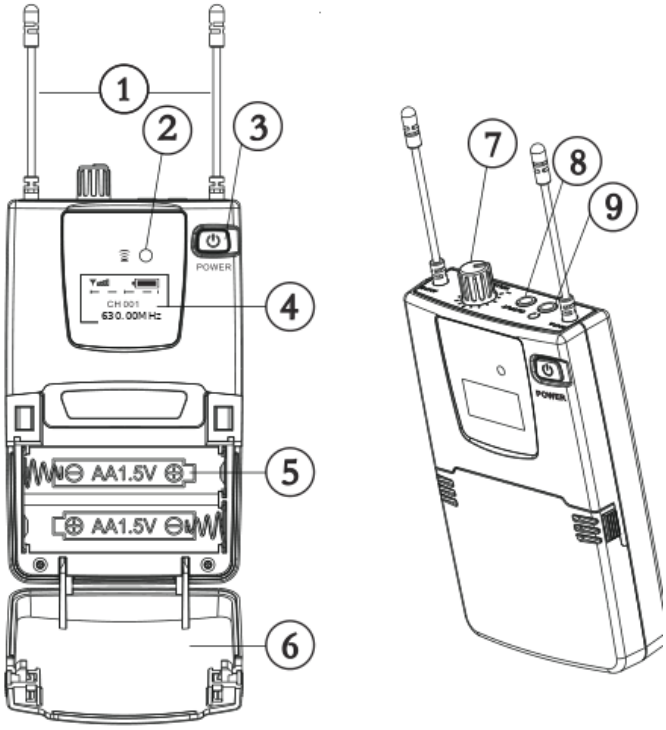


Transmitter front and rear panels, with numbered connections

No.	Control or connection	Function
1	POWER	Switches the transmitter on and off.
2 / 4	DOWN / UP	Scrolls through menu options and selects values.
3	SET	Unlocks the settings menu and selects a function.
5	IR window	Transfers the selected channel/frequency to the receiver.
6	TFT display	Shows the channel, frequency, RF output power and audio level.
7 / 8	Monitor level / socket	Controls and connects wired transmitter monitoring earphones.
9 / 10	MIC 1 input / level	Front 6.35 mm microphone input with its own level control.
11	RF antenna	Connection for the supplied transmitting antenna.
12	MIX OUT	Mixed audio output for suitable line-level equipment.
13 / 14	Input 2 level / input	Independent level and rear XLR/6.35 mm combo input.
15 / 16	Input 3 / level	Rear XLR/6.35 mm combo input and independent level.
17	DC IN	12 V DC, 500 mA power adaptor input.

Bodypack Receiver

The supplied bodypack receiver is powered by two 1.5 V AA batteries. Insert the batteries with the correct polarity and close the cover securely.

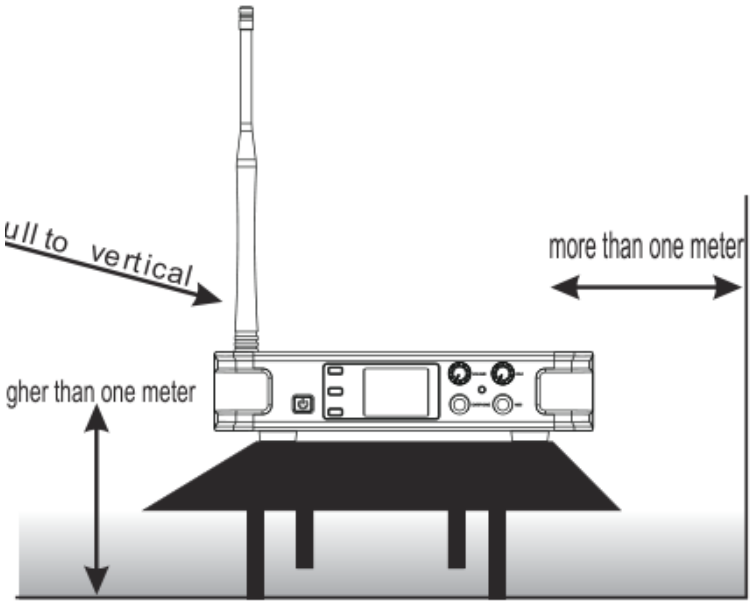


Bodypack front, battery compartment and top-panel connection layout

No.	Part	Function
1	Dual antennas	Antenna diversity reception.
2	ACT / IR sync	Receives infrared synchronisation data.
3	POWER	Switches receiver on and off.
4	OLED display	Shows RF level, battery level, channel and frequency.
5 / 6	Battery compartment / cover	Holds two 1.5 V AA batteries.
7	Volume	Sets earphone listening level.
8	LINE OUT	Receiver audio output for suitable equipment.
9	Earphone socket	Connects the supplied in-ear earphones.

! **Receiver start-up**
Set the volume to minimum before connecting or wearing earphones. Switch the receiver on after inserting batteries, then raise the earphone level gently only after verifying the RF link.

Installation and First Setup



Recommended transmitter position with the antenna upright and unobstructed

01 **Place the transmitter** Use a stable, dry location. For best RF performance, position it around 1 m above the floor and away from walls or large metal objects.

02 **Attach the RF antenna** Fit the antenna securely to the transmitter and keep it upright.

03 **Connect power** With the transmitter off and all audio levels low, connect the specified 12 V DC adaptor.

04 **Connect the monitor feed** Connect a mixer monitor output or other appropriate audio source to one of the three inputs. Adjust the corresponding input level.

05 **Prepare the bodypack** Fit two AA batteries, connect the earphones and set the bodypack level to minimum.

06 **Power on and verify** Switch on the transmitter, then the bodypack. Confirm channel/frequency agreement before raising the listening level.

Audio routing

The three source inputs are combined for one mono wireless monitor feed. Each input has its own level control. MIX OUT is an audio output, not a loudspeaker output; connect it only to a suitable line-level input.

Channel Selection and IR Sync

Select a channel

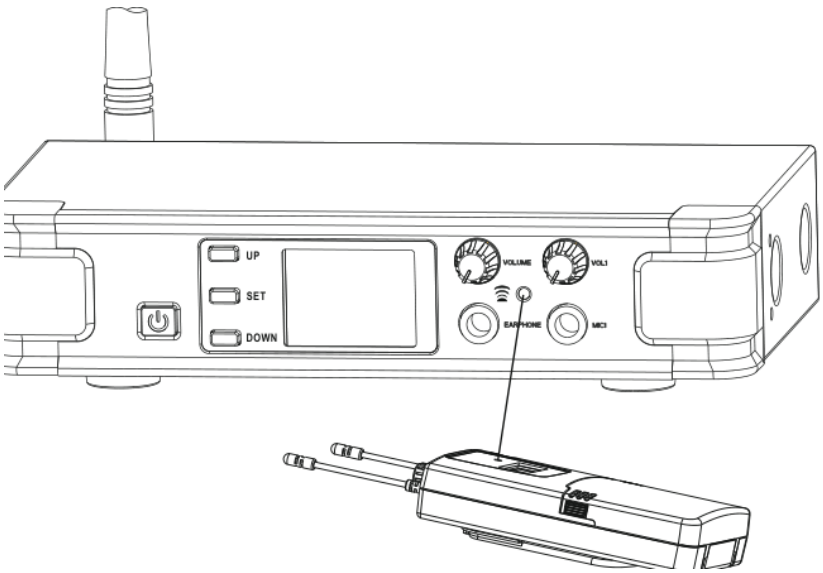
01 **Unlock the transmitter** While powered on, press and hold SET to unlock the transmitter settings.

02 **Choose the RF channel** Enter the channel selection option, then use UP or DOWN to select a suitable channel.

03 **Set the RF output power** Use SET to reach the output-power option, then choose HI or LO using UP or DOWN. LO is suitable for shorter distances; HI may offer greater coverage where permitted.

04 **Synchronise the bodypack** Switch on the receiver and hold its IR window close to the transmitter IR window. On the transmitter, press and hold SET until the SYNC indicator flashes; allow the infrared transfer to complete.

05 **Confirm reception** Check that the bodypack shows the same channel/frequency and a usable RF indication before listening.



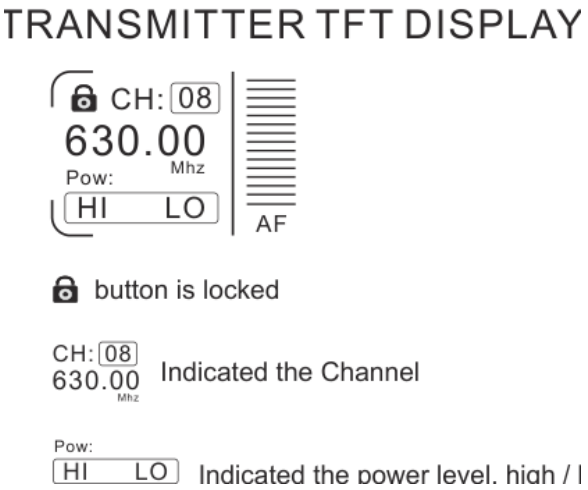
Infrared synchronisation: align the receiver and transmitter IR windows

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Channel coordination
Select a clear frequency within the QIEM-10 operating range. When multiple IEM transmitters are in use, coordinate channels to reduce interference. Confirm that transmitter and receiver operate on a permitted frequency within the listed operating band.

Operation and Display

Transmitter display



TFT display indications, including channel, RF power and audio level

isplay item	Meaning
H	Selected transmitting channel.
requency (MHz)	Operating RF frequency.
I / LO	Current RF output power selection.
F level	Incoming audio activity indication.
ock symbol	Transmitter controls are locked.

During a performance

- Set the transmitter input level for a healthy signal without audible distortion.
- Use the bodypack volume control for personal listening level, starting low.
- Check the RF signal and battery indicators on the bodypack before and during use.
- The supplied receiver provides a mono monitoring feed. The system is not a stereo IEM link.
- The bodypack typically operates for approximately 5-6 hours on two AA batteries; carry spares.

Basic troubleshooting

ymptom	Checks
o sound	Check the transmitter power and signal, receiver power, aligned channel/frequency, earphones and volume.
ropouts or noise	Reposition the antenna, improve line of sight, increase separation from obstacles, and select another clear channel.
istorted audio	Reduce the audio source and transmitter input level. Check all connected equipment.
annot synchronise	Align both infrared windows closely, confirm receiver power and repeat the SET / SYNC procedure.
eceiver stops early	Replace both AA cells with fresh, correctly installed batteries.

Technical Datasheet

Specification	QIEM-10
System type	Mono UHF wireless in-ear monitoring system
Operating frequency	606.5-636 MHz
Selectable channels	99
Modulation	DQPSK
RF output power	HIGH 30 mW / LOW 12 mW
Transmitter power	12 V DC, 500 mA
Transmitter audio inputs	3 independently adjustable inputs: 2 x XLR/6.35 mm combo, 1 x 6.35 mm MIC
Transmitter audio output	MIX OUT
Transmitter display	TFT
Bodypack receiver	1 supplied; antenna diversity, OLED display
Receiver power	2 x 1.5 V AA batteries
Bodypack operating time	Approximately 5-6 hours
Signal-to-noise ratio	>90 dB
Total harmonic distortion	<0.5%
Receiver image rejection	>80 dB
Headphone impedance	32 ohms
Frequency stability	±0.005%

Maintenance and Disposal

Switch off both units and disconnect the power adaptor before cleaning. Wipe with a soft, dry cloth; do not use solvents. Remove AA batteries during extended storage. Recycle electronic equipment, batteries and packaging through appropriate facilities.

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Specification note
RF operating range and product-specific data are taken from the Q-Audio QIEM-10 listing. Operating range and battery life vary with venue conditions, RF environment, volume and battery type.