AuraClip / RC240

Auracast Receiver | Product Data Sheet



Product Overview

AuraClip RC240 is a clip-on Auracast receiver for venue and personal assistive listening. Connect wired headphones, earbuds or a compatible external T-Coil neckloop through its 3.5 mm output.

Key Features

Public Auracast Reception: Listen to compatible public broadcasts using the LC3 codec.

Saved Broadcasts: Save and switch among up to three public Auracast broadcasts. A future firmware update will increase the limit to eight; install it through Firmware Updater after release.

Grouping Function: Join compatible encrypted broadcasts from Avantree or Venucast transmitters.

Flexible Wired Listening: One 3.5 mm output supports wired headphones, earbuds or a compatible external neckloop.

Personal Control: Physical controls for volume and channel selection; LED status indicators.

Portable Listening: Integrated clip and up to 16 hours of playtime.

Flexible Charging: Recharge via USB-C or a compatible charging dock.

Receives Auracast broadcasts only; does not receive classic Bluetooth audio directly from a phone or TV. General encrypted broadcasts are not supported.

AuraClip / RC240

Audio Output, Controls & Wireless

Audio Output & Controls

Audio Output	One 3.5 mm output for wired headphones, earbuds or a compatible external T-Coil neckloop. Supports 3-pole TRS and 4-pole TRRS plugs.
Reception Channels	Stereo.
Output Power & Load	236 mW into 16 Ω; 118 mW into 32 Ω.
Nominal Output Level	1.95 Vrms.
Physical Controls	Power on / off, personal volume adjustment and broadcast selection.
Broadcast Selection	Manual / automatic scanning; automatically reconnects to the most recently connected broadcast. Current firmware saves up to 3 public broadcasts. A future firmware update will increase the limit to 8; install it through Firmware Updater after release.
Status Indicators	LED indicators.

Wireless Specifications & Compatibility

Bluetooth Version	5.4.
Frequency Band	2400-2483.5 MHz.
Audio Codec	LC3.
Supported Sample Rates	16, 24 and 48 kHz.
Broadcast Compatibility	Compatible public Auracast broadcasts. Classic Bluetooth audio reception and general encrypted broadcasts are not supported.
Grouping Function	Joins compatible encrypted broadcasts from Avantree or Venucast transmitters.
Operating Range	Up to 100 m (328 ft) under suitable line-of-sight conditions. Actual coverage depends on the transmitter, obstructions and wireless interference.

Venucast™
Powered by Avantree

AuraClip / RC240

Audio Performance, Configuration & Power

Audio Performance

Frequency Response (±3 dB)	At 24 kHz sample rate: 20 Hz-10.6 kHz. At 48 kHz sample rate: 20 Hz-20 kHz. At 16 kHz sample rate: pending verification.
THD+N	5% at nominal output level.
Signal-to-Noise Ratio	105 dB at nominal output level.
System Latency	67 ms, measured using an Audio Precision (AP) audio analyzer with a 1 kHz reference signal. Transmitter, sample rate and transmission mode used in the test are pending confirmation; actual latency depends on the source and transmitter settings.

System Configuration & Firmware

Firmware Updates	USB-C firmware update via DFU.
Charging Dock Interface	2-pin pogo contacts with magnetic retention; compatible charging dock required.

Power & Charging

Playtime	Up to 16 hours. Actual playtime varies with listening conditions.
USB-C Charge Time	Approximately 2 hours.
Recommended USB Charger	5 V / 2 A. Charger rating is not a statement of actual power consumption.
Battery	400 mAh lithium-polymer battery; not user-replaceable.
USB Power Delivery	Not supported.

AuraClip / RC240

Physical Specifications, Environment & Accessories

Physical Specifications

Dimensions	64 x 45 x 28 mm.
Net Weight	43 g; receiver only.
Mounting	Integrated clip.

Environment & Compliance

Operating Temperature	-10 to +50 °C.
Charging Temperature	0 to +45 °C.
Storage Temperature	-20 to +45 °C.
Operating Humidity	20-90% RH, non-condensing.
Compliance	CE, FCC, IC, RCM.

Included Accessories

Item	Qty	Details
AuraClip Receiver	1	
USB-C Data & Power Cable	1	

Optional Accessories

Compatible Charging Dock	Optional; sold separately.
Wired Headphones	Optional; sold separately.

venucast.com | support@venucast.com

Bluetooth® and Auracast™ are trademarks of Bluetooth SIG, Inc. Other trademarks belong to their respective owners.