AuraView / RC250

Auracast Receiver | Product Data Sheet



Single



4-Pack



10-Pack

Product Overview

Screen-guided Auracast assistive listening receiver • Single, 4-Pack and 10-Pack

Highlights

- OLED display with up to 10 available channels
- Physical controls for channel and volume
- Compatible charging dock for venue use

Includes

Model / item	Product details
VRC-250	1 receiver and 1 single-ear wired earphone, 1 lanyard.
VRC-250-4	4 receivers, 4 wired earphones, 4 lanyards and 1 four-slot dock and 1 power adapter.
VRC-250-10	10 receivers, 10 wired earphones, 10 lanyards, 1 ten-slot dock and 1 power adapter.
Audio source	Open Auracast broadcasts from Venucast or other brands. Encrypted broadcasts are unsupported. A separate transmitter is required.
Selection and listening	OLED display; up to 10 broadcast choices. Select with UP / DOWN and ENTER. Use wired earphones or an external neckloop with a telecoil hearing aid.
Radio	Bluetooth 5.4; 2.402–2.483 GHz; LC3 codec.

Radio and listening

Specification	Details
Broadcast reception	Open Auracast broadcasts from Venucast or other brands.
Encrypted broadcast support	Not supported.
Separate transmitter required	Yes.
Channels displayed	Up to 10.
Display	OLED; internal design target 0.91 in, monochrome;
Bluetooth version	5.4.
Operating frequency	2.402–2.483 GHz.
Broadcast codec	LC3.
Supported broadcast sample rates	16 kHz / 24 kHz / 48 kHz
Mono / stereo reception	Stereo
Broadcast scan and channel lock	Auto Scan. Channel lock not supported yet.
Volume control	Independent orange + / – side buttons; press or hold to adjust.
Status indicators / screen information	Broadcast names; Battery status; Connection status; Volume levels
Supported listening accessories	Wired headphones / earbuds; external neckloop with a telecoil hearing aid.

Audio output and performance

Specification	Details
Audio output connector	3.5 mm jack.
Output use	Wired headphones, earbuds or compatible external T-Coil neckloop.
Published analog output voltage range	0.15–2.76 V peak.
Measured output power	121 mW (L) / 120 mW (R); THD+N <= 1% at the reported test level.
Signal-to-noise ratio	101.9 dB (L/R), at rated output.
Dynamic range	92.7 dB.
Channel separation	< –40 dB.
Channel balance	0.05 dB.
Residual noise	15 µV (L/R).
Nominal output level	1.95 Vrms
Rated headphone load range (Ω)	236 mW into 16 Ω; 118 mW into 32 Ω.
Number of volume steps / gain per step	16 steps / 3 dB per step
Output jack count and TRS / TRRS compatibility	1 / both TRS and TRRS

Audio output and performance (continued)

Specification	Details
System frequency response at 16 / 24 / 48 kHz (±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.
Signal-to-Noise Ratio	105 dB at nominal output level.
THD+N at nominal output level (%; frequency and load)	5% at nominal output level.
System latency test conditions	LC3 with Oasis Aura transmitter; AUX delay test.
System latency	68 ms, measured using an Audio Precision (AP) audio analyzer with a 1 kHz reference signal. Actual latency depends on the source and transmitter settings.

Battery, charging and service

Battery ratings are taken from the approved part specification; charge times require test confirmation.

Specification	Details	
Battery / charging	Replaceable receiver battery; USB-C charging; published USB charger rating: 5 V, 0.5–2 A.	
Published playback time	Approximately 16 hours at 70% volume or 10 hours at maximum volume. Actual duration varies with load, signal conditions and use.	
Battery chemistry / form factor	523450 pouch cell with protection board and connector	
Rated capacity (mAh) / nominal voltage (V)	Internal capacity target: at least 1000 mAh / 3.7 V	
Receiver full-charge time (h); charger and end condition	Approximately 3.5 hours	
4-slot / 10-slot dock input ratings (V, A)	12 V / 3 A per slot	
Full-dock charge time (h); receivers charged concurrently	Approximately 3 hours. Pending verification	
Constant-current charge current	309 mA at 3.7–4.0 V battery voltage.	
Trickle-charge current	30 mA below 2 V battery voltage.	
Charge cutoff / recharge threshold	4.2 V / 4.06 V.	
Input overvoltage / overcurrent cutoff	5.9 V / 1.3 A.	
USB-C PD support	Not supported	
Dock contacts and retention / dock firmware	2-pin pogo pin; Magnetic retention. Standard charging dock; Firmware update via USB-C (DFU).	
Charging temperature range (°C)	0 to +45 °C	

Physical and environmental specifications

Specification	Details
Product dimensions (L × W × H, mm)	110 × 65 × 30 mm (Receiver)
Net weight (g)	100 g (receiver)
Operating temperature (°C)	−10 to +50 °C
Storage temperature (°C)	−20 to +45 °C

Operating humidity (% RH)	20–90% RH, non-condensing.

Compliance

FCC, CE, IC, RCM.