QUICK START GUIDE

CASTER

Auracast™ Audio Streamer

CASTER · CASTER X · CASTER XD | Firmware 1.5.0 | October 2026

A professional Auracast™ streamer that broadcasts live, low-latency audio to an unlimited number of listeners – Auracast™-enabled hearing aids, cochlear implants and earbuds, and RTX receivers.



Low latency
Auracast™ streaming under 40 ms

Secure access
Encrypted broadcast (AES128) and a password-protected management panel

Language metadata
Each stream carries its language – the RTX shows it as a flag

Stereo or dual mono
One stereo stream, or two channels with their own program info and language

Switchable antenna
Internal or external antenna on the CASTER X and CASTER XD

Dante® input
CASTER XD: two Dante® channels, Bridged or Isolated ports

Quick start – 3 steps

1

Connect audio

CASTER · CASTER X
Connect the audio source to IN 1 / IN 2 – balanced inputs give the best quality.

CASTER XD
Connect LAN 1 to your Dante® network and route two Dante® channels to the unit in Dante Controller.

2

Power the unit

Use a 12 VDC, 2.5 A power supply – not included – or PoE+ on LAN 1.

If both are connected, the unit uses the DC input.

3

Start listening

On an Auracast™ device, find the **B-CASTER** stream and join it.

Out of the box the unit broadcasts with its default settings.

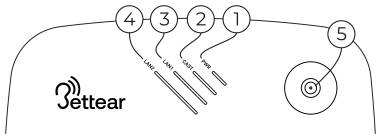
Setup complete: the CAST indicator is on and you hear audio. To change the broadcast name or the input gain, open the management panel – see page 3.

Placement: mount the CASTER at least 3 m high with a clear line of sight to the audience.

01

Device overview

Front panel

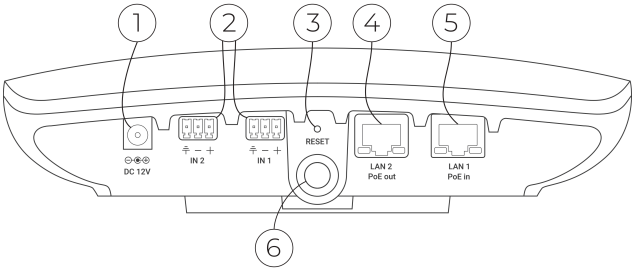


CASTER X / CASTER XD

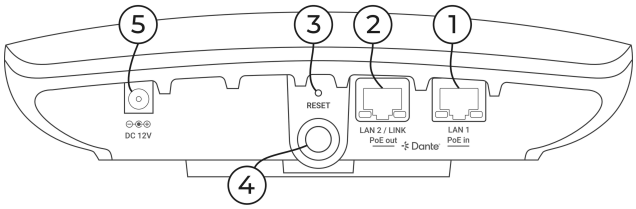
1. **PWR** – power indicator
2. **CAST** – audio broadcasting indicator
3. **LAN 1** – connectivity indicator
4. **LAN 2** – connectivity indicator
5. **External antenna connector** – CASTER X and CASTER XD: a 50-ohm RP-SMA jack. Fit a 2.4 GHz antenna with an RP-SMA plug (sold separately) and select *External Antenna* in the management panel or Hive Central.

The CASTER has internal antennas only. The LAN 1 and LAN 2 indicators can also show audio presence – set it in the management panel.

Rear panel



CASTER / CASTER X



CASTER XD

1. Power input – 12 VDC, 2.5 A
2. IN 1 / IN 2 – balanced analog inputs (terminal block)
3. Reset button
4. LAN 2 – 1 Gbps, PoE out
5. LAN 1 – 1 Gbps, PoE+ in
6. Mounting hole – 3/8" internal thread

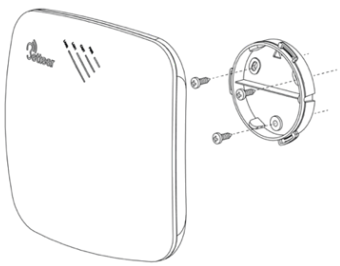
> **Note:** LAN 2 is disabled by default – License S is required to unlock it.

1. LAN 1 – 1 Gbps, PoE+ in, Dante®
2. LAN 2 / LINK – 1 Gbps, PoE out, Dante®
3. Reset button
4. Mounting hole – 3/8" internal thread
5. Power input – 12 VDC, 2.5 A

> **Note:** both ports are always enabled, no license required. They run in **Bridged** mode (Dante® and control on both ports) or **Isolated** mode (LAN 1 Dante® only, LAN 2 control only).

Mounting

Wall or ceiling



1. Fix the mounting bracket (included) to the wall or ceiling.
2. Insert the CASTER into the bracket and rotate it counterclockwise (left) to 45° until it locks.

Stand or tripod

Use the 3/8" threaded mounting hole – for example, on a microphone stand.

02 · OPTIONAL

Advanced setup

Use the management panel to change the broadcast name, enable encryption, set the language, or adjust audio, radio and network settings. It is a web page served by the CASTER – open it in any browser on a computer on the same local network as the unit.

Accessing the management panel

> **Default IP mode – DHCP with fallback:** the CASTER gets its IP address from a DHCP server on the network. Without one, it falls back to its default address, 192.0.2.1.

With a DHCP server

1. Connect LAN 1 to the local network.
2. Find the unit with an IP scanner (Windows – Advanced IP Scanner, macOS – LanScan): look for *Bettear – Accessibility Technologies Development* as the manufacturer.
3. Browse to that IP address.

Without a DHCP server

1. Connect LAN 1 to the network, or directly to the computer.
2. Set the computer to a static IP in the same subnet – for example 192.0.2.10, mask 255.255.255.0.
3. Browse to **http://192.0.2.1**

CASTER XD: in Bridged mode, either port gives access to the panel. In Isolated mode, connect the computer to LAN 2.

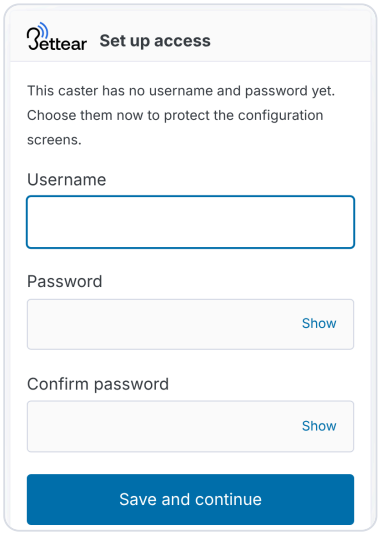
Signing in

The panel is protected by a username and password. There are **no default credentials** – on a new or factory-reset unit, the first person to open the panel sets them on the *Set up access* screen:

1. Enter a username – up to 32 characters.
2. Enter a password – 4 to 64 characters – and confirm it.
3. Click **Save and continue**.

From then on, the panel opens with the *Sign in* screen.

> **Forgotten password:** it can only be cleared by a factory reset, which also restores all other settings.



Audio quality

QUALITY	DETAILS	USE
Low	16 kHz, 16-bit, 32 kbps	All devices
Medium (default)	24 kHz, 16-bit, 48 kbps	All devices – recommended for hearing aids and cochlear implants
High	48 kHz, 16-bit, 80 kbps	Earbuds, headphones and RTX – most current hearing aids are limited to 24 kHz

03

What you can configure

SECTION	SETTINGS
Broadcast	Broadcast name (4–32 characters) · encrypted broadcast with a 4–16-character passphrase · **language** of the stream · **Stereo** or **Dual Mono** – two channels, each with its own program info, language and connection QR code · extender, audio sharing and timecode modes (CASTER, CASTER X)
Audio	Audio quality · input gain and mute · AGC (automatic gain control) · high-pass and low-pass filters
Radio	TX power · antenna output – internal or external (CASTER X, CASTER XD), applied without a restart
Network	DHCP or static IP – after a new static address is saved, the panel reopens at it · CASTER XD: Bridged or Isolated port configuration
Maintenance	LED mode and blink-to-identify · reboot · factory reset · change the login credentials · turn the management panel (Web UI) off – the unit stays manageable from Hive Central and the Control API

Firmware updates

CASTER firmware

Update with the **CASTER Upgrade Tool** (Windows and macOS) from the CASTER product page, or with **Hive Central** – recommended for several units at once.

CASTER XD Dante® firmware

Updated separately with Dante Updater – the Dante® firmware file and the *CASTER XD – Dante Firmware Update Guide* are on the CASTER product page. Isolated mode needs both updates.

For step-by-step instructions, see the **CASTER User Manual 1.5.0** or the **CASTER XD User Manual 1.5.0**, chapter *Firmware, licenses & reset* – download them from bettear.com/products/caster.

What's in the box

Supplied	CASTER, CASTER X or CASTER XD unit · wall/ceiling mounting bracket
Required – not included	12 VDC / 2.5 A power supply, or power the unit over PoE+ on LAN 1

More information

User manuals – CASTER and CASTER XD	bettear.com/products/caster
Release notes, Upgrade Tool and datasheets	bettear.com/products/caster
Hive Central User Guide	bettear.com/hive-central-guide
Support	support@bettear.com · +972-3-777-8630