B-PASS | User Manual

Secure streaming access panel

www.bettear.com

Software version 2.10 · October 2026



Highlights:

- Secure access and control panel for Auracast™ streams
- Seamless access for authorized listeners only
- Calendar-driven passkeys — a new passkey for every meeting, synced directly with the room's calendar
- Passkey generation by calendar, NFC Admin Tag or API
- Wi-Fi internet access, independent of the CASTER control network
- Online software updates — check, download and install from Settings
- Adjustable security levels
- Multi-channel stream selection with language identification
- Custom on-screen branding and signage
- Adjustable screen brightness
- Supports desktop and wall-mounted installations
- Fully compatible with B-CASTER and B-RTX devices

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OVERVIEW

The B-PASS ensures that only authorized listeners gain access to an Auracast™ audio stream.

When installed at a venue, the B-PASS allows access to encrypted audio streams only for listeners present on-site. Unauthorized users, and listeners outside the venue, cannot join the session.

The B-PASS connects to the same network as the B-CASTER transmitters. With simple initial configuration it automatically manages and updates the broadcast passkey between sessions, so only the relevant audience can join. The security level can be customized to meet project requirements.

How a listener joins

The panel offers two routes, side by side on the visitor screen:

- **Scan the QR code** — a phone scans the code and joins the stream directly.
- **Tap an RTX** — a B-RTX receiver is held against the NFC reader area and is handed the stream details.

Where a B-CASTER broadcasts more than one stream, the panel adds a stream list so the listener chooses a channel first — see *The visitor screen*.

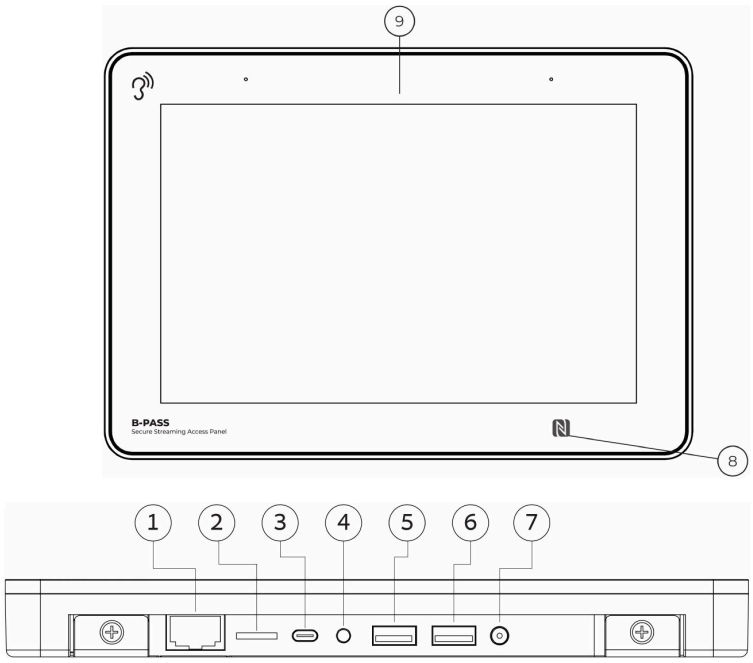
How the passkey is updated

- **By calendar** — connect the panel to the room's calendar and it generates a new passkey automatically as each meeting begins. See *Settings › Calendar*.
- **By NFC Admin Tag** — tap an Admin Tag on the B-PASS to generate a new passkey. Only NDEF-compatible tags are supported.
- **Via API** — integrate the B-PASS and B-CASTER with a third-party control system to schedule or automate passkey generation.

Each passkey is pushed to every CASTER the panel controls, so the listeners of the previous session can no longer join. The B-PASS provides the balance between strong security and seamless user access.



INTRODUCING THE B-PASS



1 LAN with PoE	IEEE 802.3at — network and power over one cable
2 microSD card slot	Up to 64 GB
3 USB-C port	Data transfer and external device support (OTG)
4 Headphone jack + reset button	3.5 mm; the reset pin-hole is inside the jack
5 USB-A port	Storage devices and USB peripherals
6 USB-A port	Storage devices and USB peripherals
7 Power input	12 V DC / 1.5 A
8 NFC reader area	Where an Admin Tag or a B-RTX is tapped
9 Touch screen	8", 1280 × 800

> The power button is on the side edge of the panel.

INSTALLATION

Connect to power

Power the B-PASS using either:

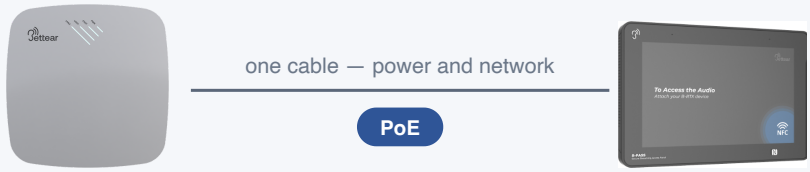
- a 12 V DC power supply, or
- PoE through the LAN (RJ45) port.

Connect to network

The B-PASS must sit on the same network as the B-CASTER devices it controls. There are two standard arrangements.

1 Straight off the CASTER — one cable

Connect the B-PASS LAN port directly to **LAN 2** on a B-CASTER. That single Ethernet cable carries both the network and the power, so the panel needs no separate supply and no switch.

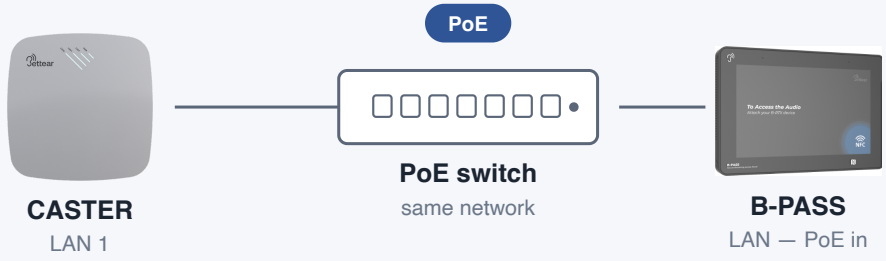


Needs an active CASTER-S license on CASTER and CASTER X; none on CASTER XD.

> Without an active CASTER-S license, power the panel from its 12 V DC input or from a PoE switch instead.

2 Through a PoE switch

Connect the B-PASS and the B-CASTER devices to the same PoE switch. Use this when the panel serves more than one CASTER, or when the CASTER's LAN 2 output is not available.



Any PoE switch on the CASTER network — use where the panel is not beside it.

Network requirements

CASTER control — wired port

Requirement	Detail
Reachability	The panel must reach every CASTER it controls by IP address — the same network, or subnets routed to each other.
Protocol	HTTP, TCP 80, from the panel to each CASTER (status every few seconds; the passkey when it changes).
Addressing	DHCP, or a static address set in Settings › Network.

Internet access — calendar control and online updates

Everything is **outbound HTTPS from the panel**. It opens no listening ports and accepts no inbound connections.

Purpose	Destination	Protocol
Google calendar	www.googleapis.com, oauth2.googleapis.com	TCP 443
Published calendar (.ics)	The host that publishes the address — e.g. outlook.office365.com	TCP 443
Internet check	connectivitycheck.gstatic.com	TCP 80 / 443
Online software update	bettear-updates.web.app	TCP 443
Clock sync	time.android.com	UDP 123
Name resolution	The DNS servers handed out by DHCP	UDP/TCP 53

- No captive portal on the Wi-Fi network (or the panel's MAC address whitelisted) — the panel has no browser to accept one.
- Exclude the panel from TLS inspection; it trusts public certificate authorities only.
- The two connections are never bridged. A guest or IoT network with client isolation is fine.

If the wired network itself routes to the internet (gateway and DNS), calendar control works over it and Wi-Fi can stay off. The full IT checklist is in the B-PASS Calendar-Driven Passkeys Guide.

Whichever arrangement is used, the panel and every CASTER it controls must be on the same network. The panel reaches each CASTER by IP address — see *Settings › CASTER*, where a status dot shows whether each one is actually answering.

Power on

Press the power button on the side edge. The panel starts into the visitor screen; no further action is needed for a listener to use it.

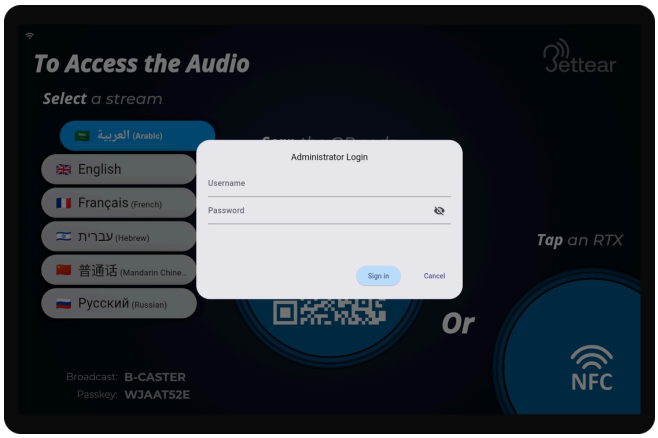
Access the settings panel

1. On the visitor screen, tap the blue **NFC circle** six times.

2. When the Login dialog appears, enter the administrator credentials and tap **Sign in**.

Default credentials — Username **admin** | Password **4308**. Change them in **Settings › User** after commissioning.

The gesture must be completed within a few seconds. If nothing happens, tap again a little faster.



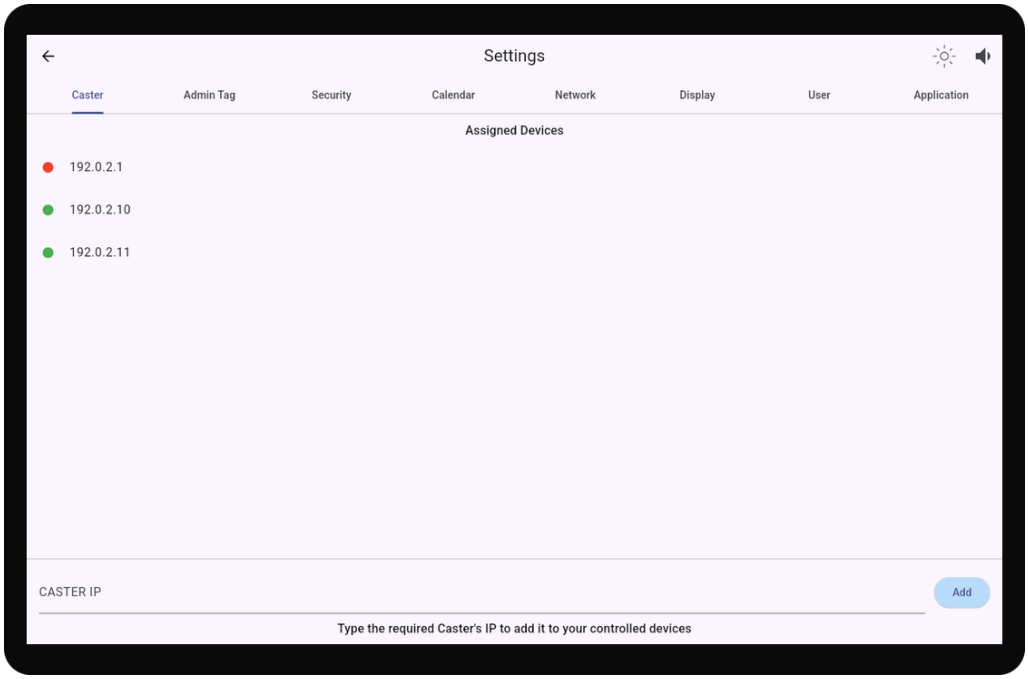
The settings panel opens on the CASTER tab. Eight tabs run across the top:

Tab	What it holds
Caster	The CASTER devices this panel controls, with live status
Admin Tag	Enable Admin Tag; assign and remove tags
Security	Passkey length and character type — applies to every passkey
Calendar	Calendar-driven passkeys: connection, lead time, next meeting
Network	Wired port addressing (CASTER control) and Wi-Fi (internet access)
Display	What visitors see: Display QR and custom backgrounds
User	Administrator username and password
Application	Software version, USB and online update, date & time

Tap the back arrow at the top left to return to the visitor screen. The two icons at the top right set the screen brightness (sun) and the confirmation-tone volume (speaker).

SETTINGS › CASTER

The CASTER tab lists the transmitters this panel controls, and shows whether each one is reachable right now.



Device status

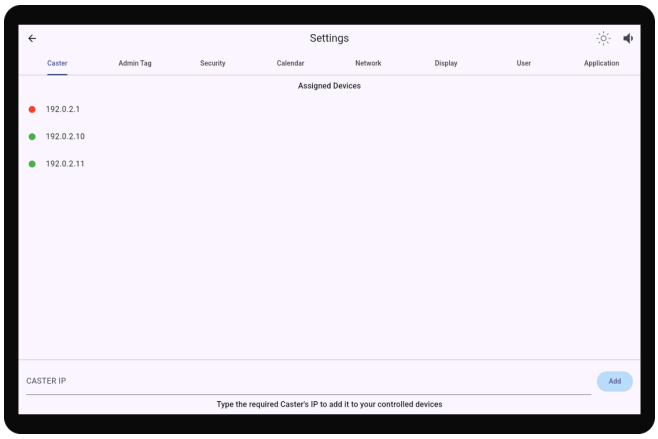
Each device carries a coloured dot on its left:

• **Green**	The CASTER answered. It is on the network and reachable.
• **Red**	The CASTER did not answer — check power, cabling and the IP address.
• **Grey**	Not checked yet. Shown briefly when the tab has just opened.

Add a CASTER

1. Go to **Settings › CASTER**.
2. Enter the IP address of the B-CASTER in the **CASTER IP** field.
3. Tap **Add**.

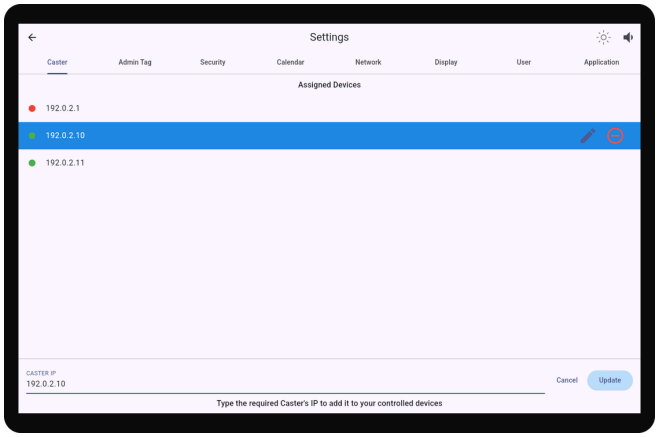
Repeat steps 2–3 for each additional device.



Edit a CASTER's address

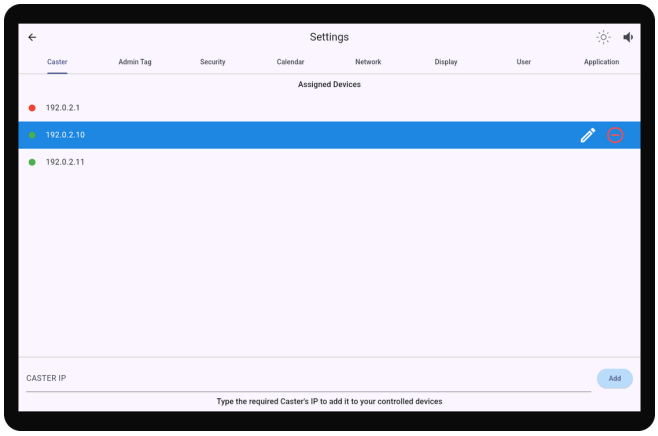
1. Select the device in the **Assigned Devices** list.
2. Tap the pencil icon.
3. The address loads into the **CASTER IP** field. Edit it and tap **Update**.

Tap **Cancel** to leave the device unchanged.



Remove a CASTER

1. Select the device in the **Assigned Devices** list.
2. Tap the remove icon.



SETTINGS › ADMIN TAG

Admin Tags are NFC cards that regenerate the broadcast passkey when tapped on the panel. The tab shows how many are assigned and offers three actions: **Add**, **Remove** and **Remove All**.

Enable Admin Tag, at the top of the tab, decides whether a tap generates a new passkey. It works independently of calendar control: either trigger can run on its own, or both together — the calendar for the timetable, a tag for the unscheduled change.

Assign a tag

1. Tap **Add**.
2. Tap the Admin Tag on the NFC reader area.

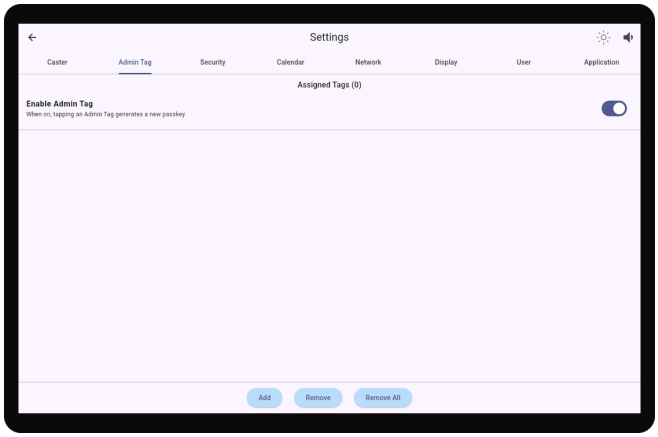
Remove one tag

1. Tap **Remove**.
2. Tap the Admin Tag you wish to unassign.

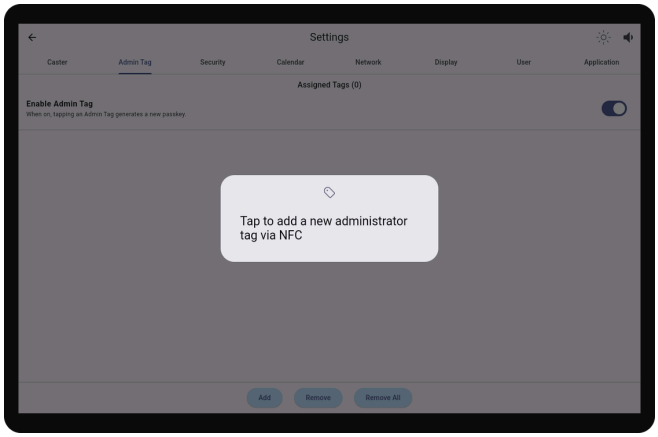
Remove every tag

1. Tap **Remove All**.
2. Confirm the deletion.

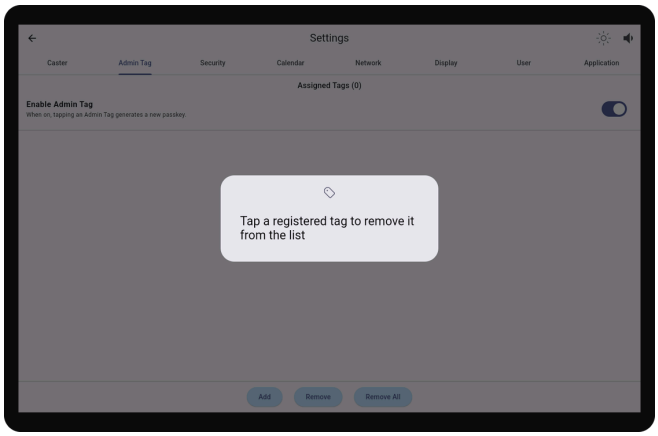
> Only NDEF-compatible tags are supported.



Enable Admin Tag and the tag actions



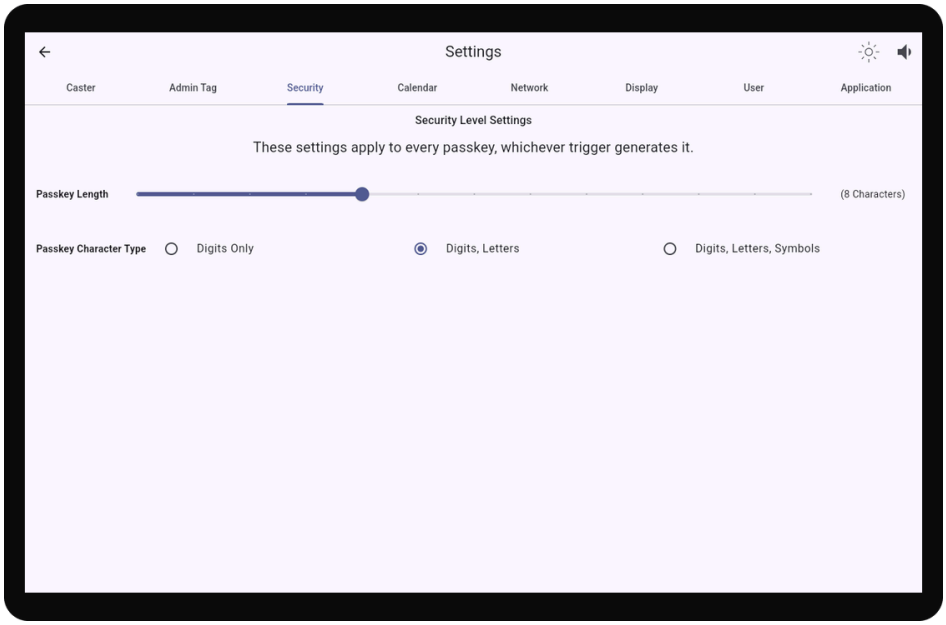
Add — waiting for a tag



Remove — waiting for a tag

SETTINGS › SECURITY

The Security tab sets what a passkey looks like. Its rules apply to **every** passkey the panel generates, whichever trigger fires — an Admin Tag, the calendar or the API.



Option	What it does
Passkey Length	The number of characters in the generated passkey. Drag the slider; the current value is shown to its right.
Passkey Character Type	How complex the passkey is — Digits Only, Digits + Letters, or Digits + Letters + Symbols.

Which triggers generate a passkey

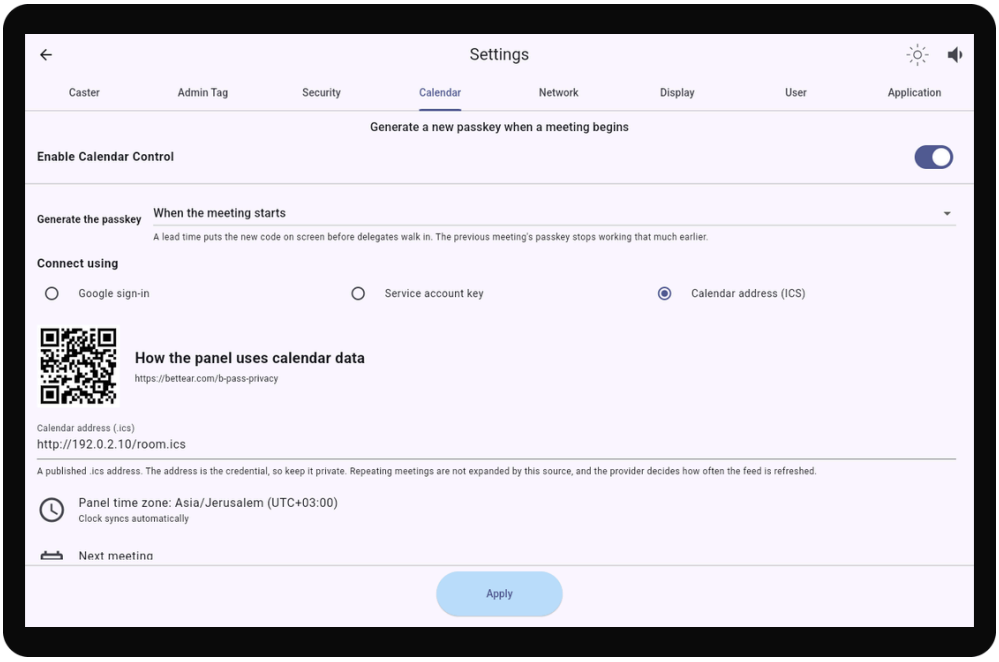
Each trigger is switched on where it is configured: **Enable Admin Tag** on the Admin Tag tab, **Enable Calendar Control** on the Calendar tab. With both off, the panel acts as a quick access panel only — it publishes the stream for QR and RTX joining and leaves the passkey the CASTER already holds unchanged.

Admin Tag	Calendar control	Result
On	On	A new passkey as each meeting begins, and on demand whenever a tag is tapped.
Off	On	The schedule alone decides. A tap does nothing.
On	Off	Tag-driven, as in earlier versions.
Off	Off	Quick access panel only — the passkey is not changed by the panel.

> Display QR has moved from this tab to **Settings › Display**. A panel updated from an earlier version keeps doing exactly what it did: its previous Security Control setting carries over to Enable Admin Tag.

SETTINGS › CALENDAR

Calendar control gives every meeting its own passkey without anyone touching the panel. The B-PASS reads the room's calendar **directly** — no Bettear server, gateway or extra software — and generates a new passkey as each meeting begins. The listeners authorized for the previous meeting can no longer join; the new audience scans the new QR code or taps an RTX as usual.



Option	What it does
Enable Calendar Control	Turns calendar-driven passkeys on or off. If it is greyed out, the line beneath it names the step still missing.
Generate the passkey	When the meeting starts, or up to 60 minutes before it, so early arrivals find the new code already on screen. The previous meeting's passkey stops working that much earlier.
Connect using	**Google sign-in** (approved from the administrator's own phone), **Service account key** (a key file imported from a USB drive) or **Calendar address (ICS)** (a published .ics link — Microsoft 365, iCloud and others).
Calendar	For the two Google routes: tap **Load calendars** and pick the room's calendar.
Panel time zone / Next meeting	Confirms the zone the panel works in and names the next meeting it will act on.
How the panel uses calendar data	A QR code to the privacy statement, for administrators. Not shown to visitors.

How it behaves

- **On time.** The panel reads the calendar every five minutes and arms a timer for the exact start of the next meeting, so the passkey changes as the meeting begins — not at the next read. A meeting added at short notice is picked up at the next read and still rotates.
- **Read-only.** The panel reads start times, titles and the calendar's time zone from the one calendar chosen. It never writes to the calendar, and no meeting details are stored.
- **Same rules.** The new passkey follows the Security tab and is pushed to every CASTER, the same path an Admin Tag uses.
- **Fails safe.** If the calendar cannot be reached, the stream and its current passkey keep working; the warning icon on the visitor screen says so — see *Status icons*.

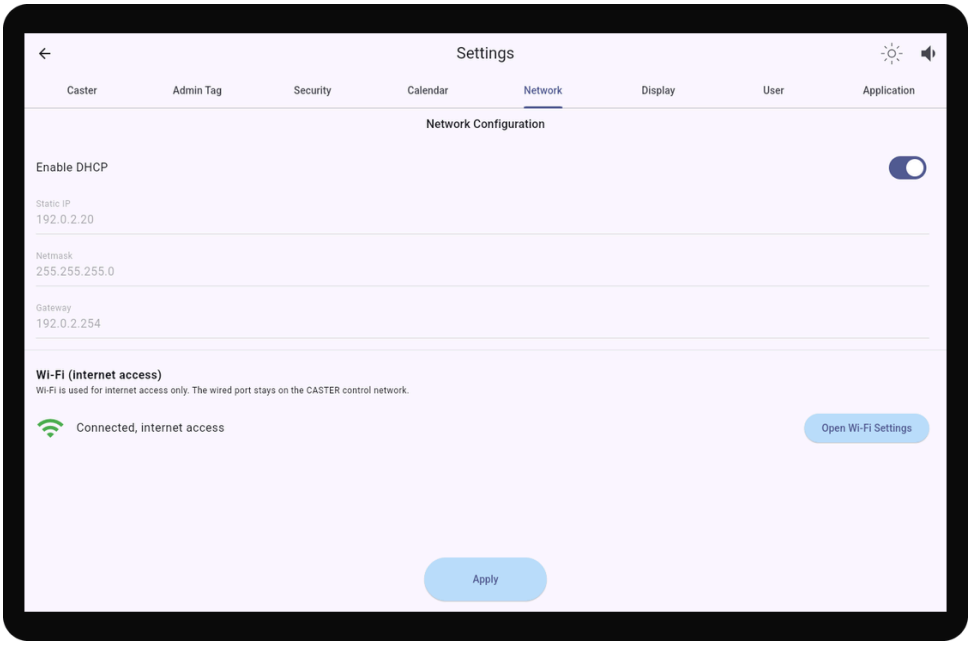
Requirements. Calendar control needs internet access — Wi-Fi from **Settings › Network**, or a wired network that routes to the internet — and the correct time zone (**Settings › Application**). See *Network requirements*.

Step-by-step setup. For each connection route — Google sign-in, service account key and calendar address (ICS) — including how to publish a Microsoft 365 calendar, which route suits which venue, and the IT checklist, download the **B-PASS Calendar-Driven Passkeys Guide** from the B-PASS page at **www.bettear.com/products/b-pass**.

Privacy. What calendar data the panel reads, how it is used and protected, and how its access is removed are set out in the **B-PASS Privacy Policy** at **www.bettear.com/b-pass-privacy** — also reachable by the QR code on Settings › Calendar.

SETTINGS › NETWORK

The panel has two network connections, each with its own job. The **wired port** carries control traffic to the CASTERs. **Wi-Fi** provides internet access for calendar control. No audio passes through the panel on either — listeners receive Auracast™ straight from the transmitter.



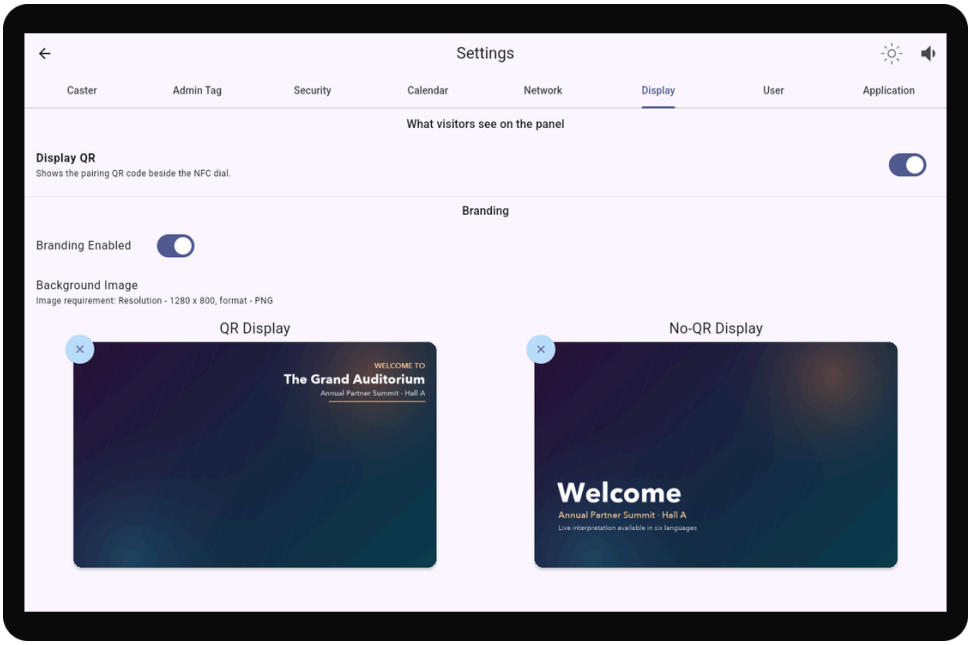
Option	What it does
Enable DHCP (default: on)	The wired port takes its IP address, netmask and gateway from the network's DHCP server.
Static IP / Netmask / Gateway	Editable only when DHCP is off. Enter the values and tap **Apply**.
Wi-Fi (internet access)	Tap **Open Wi-Fi Settings**, pick the network and enter its password; the Wi-Fi panel closes back to Settings. The status line reads *Connected, internet access* only when the connection has been verified to reach the internet.

> Switch DHCP off and set a static address where the panel is connected directly to a CASTER, or to any network with no DHCP server. With DHCP on and no server to answer it, the panel never receives an address and cannot reach the CASTERs.

Changing the panel's own address does not change the CASTER addresses it controls; those are set on the Caster tab. Wi-Fi is needed only for calendar control — a panel that does not use the calendar can leave it off.

SETTINGS › DISPLAY

Everything that decides what a visitor sees is on one tab.



Option	What it does
Display QR	Shows or hides the QR code and the access information on the visitor screen. With it off the panel shows the RTX-only layout — see *No-QR view*. This setting also selects which custom background is used.
Branding Enabled	Switches custom backgrounds on. See *Custom backgrounds*.
Background Image	Two slots — **QR Display** and **No-QR Display**. Tap a slot to choose an image; tap the **×** on a slot to clear it.

SETTINGS › USER, VOLUME AND BRIGHTNESS

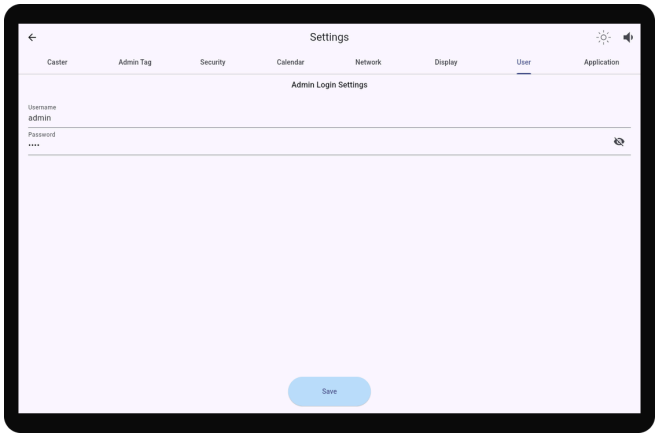
User

Update the administrator username and password, then tap **Save**.

Use the eye icon at the right of the password field to show or hide what you have typed.

> Change the default credentials during commissioning. Anyone who reaches this panel with the defaults can alter the security settings of every CASTER it controls.

If the password is lost, the only way back in is a factory reset — see *Factory reset*.

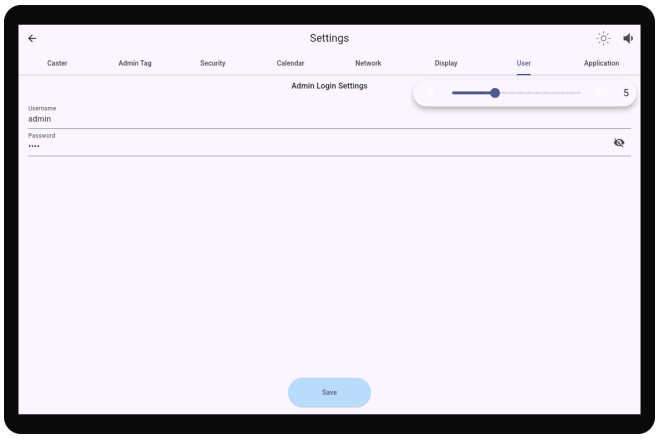


Volume

The speaker icon at the top right of the settings header opens the panel's volume slider. It controls the confirmation sound the panel plays when a tag or an RTX is tapped.

1. Tap the speaker icon.
2. Drag the slider.
3. Tap anywhere else to close it.

> The B-PASS has no built-in speaker. Headphones or a powered speaker must be connected to the 3.5 mm jack for the tone to be audible.

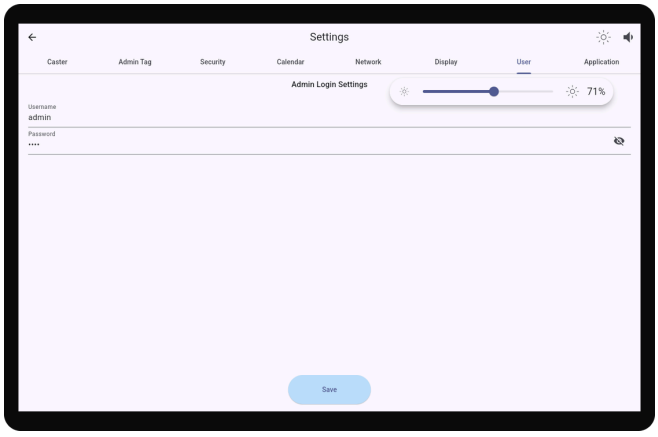


Brightness

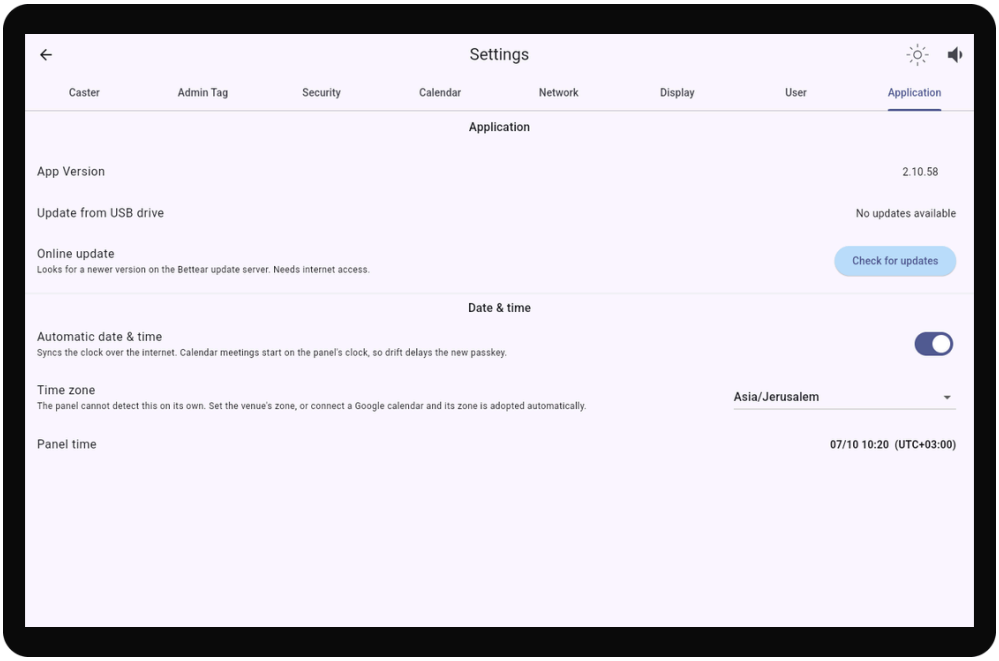
The sun icon, beside the speaker, opens the screen brightness slider. The level is kept through restarts and power cycles.

1. Tap the sun icon.
2. Drag the slider.
3. Tap anywhere else to close it.

> 100% on the slider is the brightest level the panel is designed to run at continuously. The panel ships at 71%, which suits most indoor rooms; a lower level keeps the panel cooler.



SETTINGS › APPLICATION



Option	What it does
App Version	The software version currently installed.
Update from USB drive	Installs a newer version from a USB flash drive. The button appears only when the drive holds a newer version than the one installed — otherwise the row reads *No updates available*. See *Software update*.
Online update	Tap **Check for updates** to look for a newer version on the Bettear update server; if one is found, **Download and install** fetches and installs it. Needs internet access. See *Software update*.
Automatic date & time	Keeps the panel clock synchronised over the internet. Calendar meetings start on the panel's clock, so this should stay on wherever the panel has internet access.
Time zone	The venue's time zone. The panel cannot detect it by itself — set it once. Connecting a Google calendar adopts that calendar's zone automatically.
Panel time	The panel's current time, to check against a wall clock.

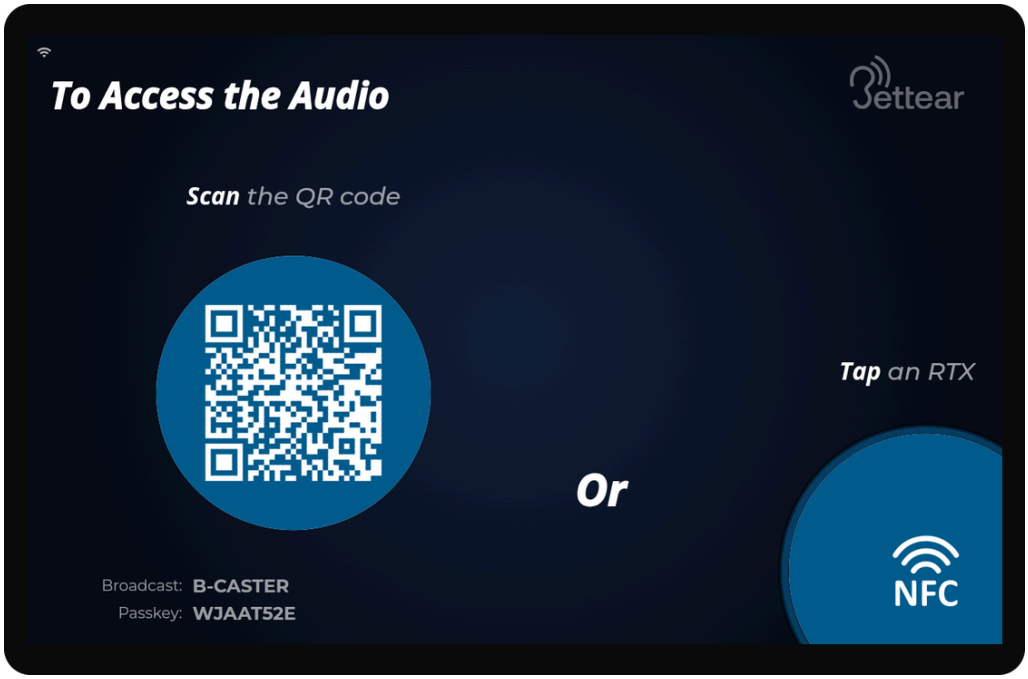
> Custom backgrounds have moved from this tab to **Settings › Display**.

THE VISITOR SCREEN

This is what a listener sees. Its layout depends on two things: whether **Display QR** is on, and how many streams the connected CASTERs are broadcasting.

Single-stream view

When one stream is available, the panel shows it directly — no list, no choosing.



- **Scan the QR code** — the code carries the stream and its passkey.
- **Tap an RTX** — hold a B-RTX against the NFC circle.
- **Broadcast** and **Passkey** at the lower left name the stream and its current passkey.

Soft rings breathe outward from the QR and NFC dials to draw a visitor's eye to the two ways in. The animation pauses while the settings panel is open.

Multi-channel view

When the connected CASTERs offer more than one stream, a **Select a stream** list appears down the left. The end user selects the stream they need — typically their own language — before joining. Selecting a channel updates both the QR payload and the RTX write target.

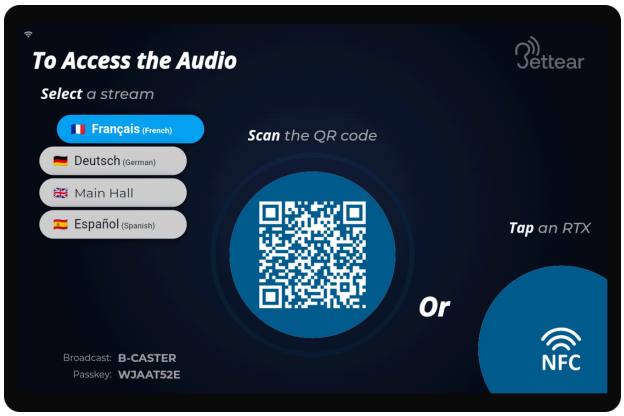


- Up to six channels are shown at once; the list scrolls if there are more.
- The selected channel is highlighted and steps slightly to the right.
- Channels are listed alphabetically by the text shown on the button, so the order stays the same however the CASTERs happen to answer.

What a channel button shows

A CASTER can report two things about each stream: a **programme name** and a **language**. Either may be absent, so the button follows one rule:

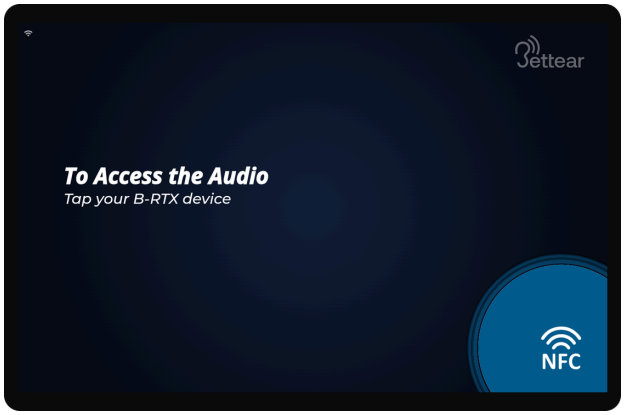
CASTER reports	The button shows
Programme name with or without a language	The programme name, with the language flag beside it when a language is also reported.
Language only no programme name	The language in its own script, with the English name in brackets and the flag — for example עברית (Hebrew).
Neither	The broadcast name of the CASTER.



One CASTER, four streams: “Main Hall” carries a programme name; the other three carry a language only.

No-QR view

With **Display QR** switched off in **Settings › Display**, the panel drops the QR code, the stream list and the broadcast details, and shows only the RTX tap target.



Use this where listeners are handed B-RTX receivers rather than using their own phones, or where showing a scannable code on a wall panel is not wanted.

> This view has its own background slot — **No-QR Display** — because the screen is mostly empty and suits different artwork from the QR layout.

Tap confirmation

When a device has finished receiving the stream details, the panel confirms it on screen: a **Syncing device** message appears over the visitor screen, together with a short beep.



It is shown for a device that actually received the details — a B-RTX that was written to, or a phone that read the panel by NFC — so it confirms the transfer happened rather than merely that something touched the reader.

- The message stays for about two seconds and then fades away.
- Tapping again restarts it, so a queue of visitors tapping one after another sees one steady confirmation rather than a flicker.
- The screen behind stays visible on purpose: the panel is shared, and a second person part-way through scanning the QR code is not interrupted.

> The beep needs something to play through — the B-PASS has no built-in speaker. Connect headphones or a powered speaker to the 3.5 mm jack if the audible confirmation is wanted. The on-screen message appears either way. The level is set in **Settings** › **Volume**.

Status icons

Two small icons can appear at the top left of the visitor screen. They are meant for staff; visitors can ignore them.

Icon	Meaning
Wi-Fi	Shown only while Wi-Fi is switched on: the plain Wi-Fi symbol when connected, Wi-Fi with a slash when it is on but not connected. No icon at all when Wi-Fi is off.
Warning triangle	Something needs attention. Tap it to see what.



Tapping the warning triangle lists what needs attention

Message	What to do
CASTER disconnected	Check the CASTER's power, cabling and IP address (Settings › Caster).
No CASTER devices added	Add the CASTERs on the Caster tab.
Failed to configure new passkey	At least one CASTER did not accept the new passkey; check it is reachable. CASTERs that did accept it use the new passkey.
Calendar control is on but the panel has no internet access	Connect Wi-Fi (Settings › Network) or give the wired network a route out.
Calendar could not be read	Open Settings › Calendar; reconnect or check the calendar address.

CUSTOM BACKGROUNDS

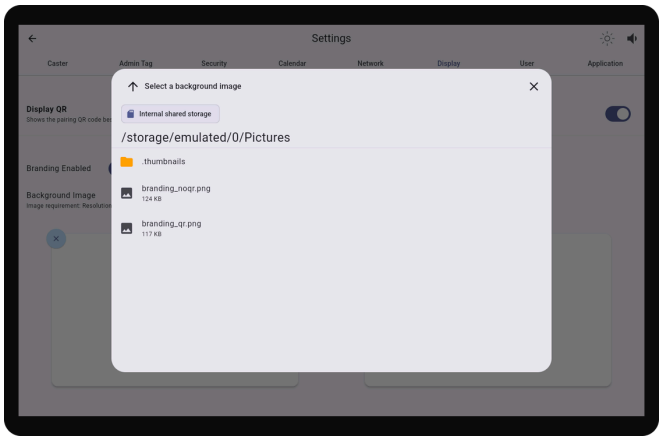
The visitor screen can carry your own artwork behind the panel's controls. The image is not limited to branding: it can equally serve as signage — a venue or exhibit name, a welcome message, sponsor artwork or wayfinding — and can be changed per event without altering other settings.

Requirements

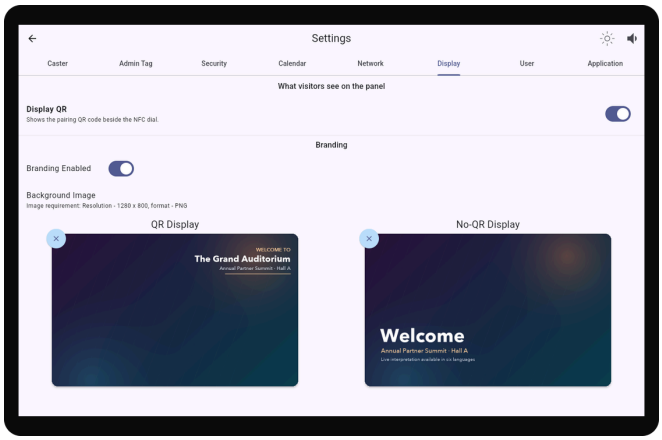
- **1280 × 800 pixels**, PNG format.
- One image per layout: **QR Display** and **No-QR Display**.

Import an image

1. Copy the PNG to a USB flash drive, and insert the drive into a USB-A port on the panel.
2. Go to **Settings** › **Display** and switch **Branding Enabled** on.
3. Tap the **QR Display** or **No-QR Display** slot.
4. Choose **USB drive** at the top of the browser, find the file and tap it.



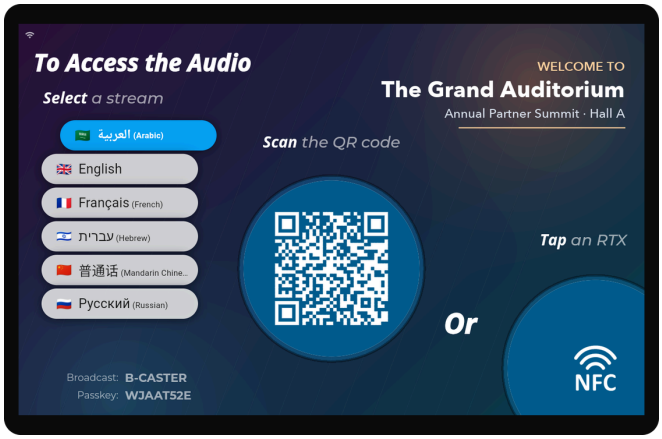
Choosing an image — the browser opens on the USB drive when one is inserted



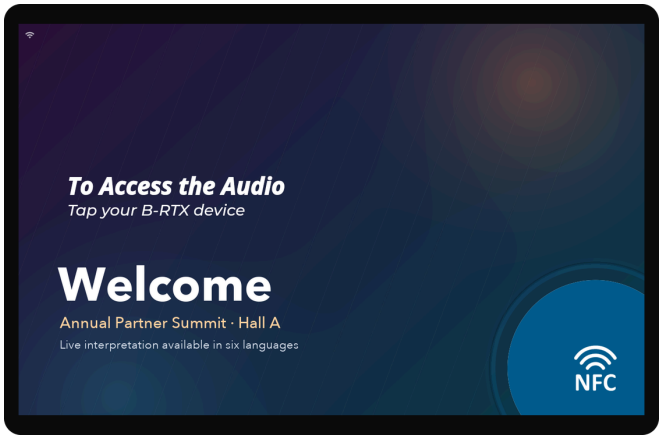
Branding on, with both slots filled

Tap the **×** on a slot to clear that image. Switching **Branding Enabled** off restores the standard background without deleting what you imported.

Custom backgrounds — the result



QR Display background in place

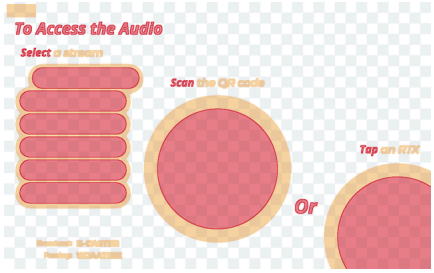


No-QR Display background in place

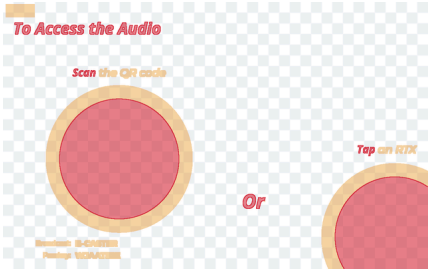
> The panel uses the **QR Display** image when Display QR is on and the **No-QR Display** image when it is off. While branding is enabled the Bettear mark is hidden, so the artwork carries your own identity.

Design templates

The templates were remeasured for 2.10: the NFC dial now sits lower on the screen and both dials breathe with animated rings. Re-check backgrounds designed for 2.8.x. Parts of the screen are always covered by the panel's own controls. Artwork placed under them will not be seen, and detail placed close to them makes the text harder to read. A set of design templates is supplied alongside this manual to make that easy to design around.



QR / multi-channel



QR / single stream



No-QR display

How to use them

1. Open your artwork at 1280 × 800.
2. Place the matching overlay PNG as the top layer.
3. Keep logos, faces and text out of the **red** areas — the panel's controls sit there.
4. Keep the **amber** areas quiet: they are partly covered by the animated rings, shadows and fades.
5. The unmarked area is yours.
6. Hide or delete the overlay layer, then export a flat PNG at 1280 × 800.

> Free space differs by layout — roughly 59% (QR multi-channel), 73% (QR single stream) and 90% (No-QR). Design the No-QR image separately rather than reusing the QR one: its free area is a different shape.

Design in your browser with the free **B-PASS Background Designer** (www.bettear.com/b-pass-background): it previews your image under the panel's controls and exports both PNGs. The templates and the step-by-step **B-PASS Custom Backgrounds Guide** are downloads from www.bettear.com/products/b-pass.

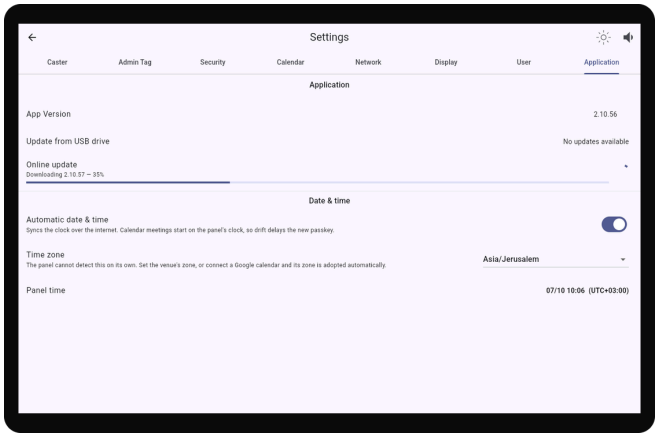
SOFTWARE UPDATE

A new version can reach the panel in two ways: **online**, straight from the Bettear update server, or from a **USB flash drive**. Either way the panel installs only a version signed by Bettear and newer than the one installed, and every setting is kept.

Online update

1. Make sure the panel has internet access — **Settings › Network** reads *Connected, internet access*.
2. Go to **Settings › Application** and tap **Check for updates**.
3. If a newer version is offered, tap **Download and install**. Progress is shown as it downloads.
4. The download is verified, installed, and the application restarts by itself.

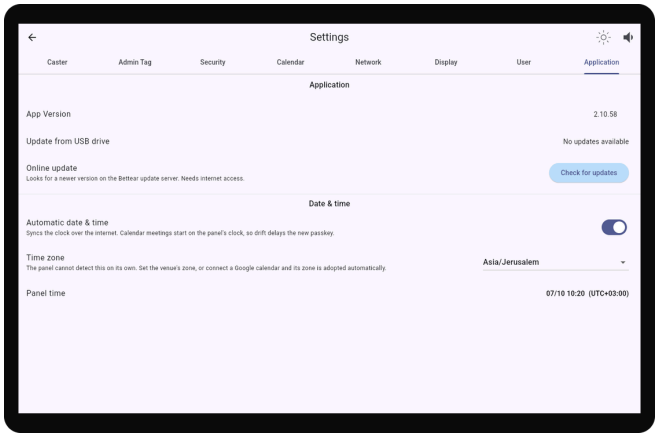
If the panel is already current, the row reads *Up to date — this is the latest version*.



> Before installing, the panel checks the download against the size and checksum the server published, confirms it is the B-PASS application signed with Bettear's key, and that it is newer than the version installed. A download that fails any check is discarded.

Update from a USB drive

1. Download the update file (**bpass.apk**) from www.bettear.com.
2. Copy it to the root folder of a USB flash drive — the name must stay **bpass.apk**.
3. Insert the drive into a USB-A port on the B-PASS.
4. Sign in (six taps on the NFC circle) and go to **Settings › Application**.
5. Tap **Update** in the **Update from USB drive** row. The application restarts automatically.



The **Update** button appears only when the drive holds a newer version than the one installed. Settings are preserved across an update: CASTER addresses, Admin Tags, security, calendar connection, network, Wi-Fi and branding all survive. Downgrading to an earlier version is not supported.

FACTORY RESET

A factory reset returns the B-PASS to the condition it shipped in. Use it when the panel moves to another venue, when the administrator password has been lost, or when Bettear support asks for one.

> There is no factory reset inside the settings panel. The reset button is the only way to perform one, and a factory reset cannot be undone.

What it erases

- All assigned CASTER devices
- All assigned NFC Admin Tags
- The administrator username and password, which return to **admin** / **4308**
- Security and display settings — passkey length, character type and Display QR
- The calendar connection — Google sign-in, service account key or calendar address
- Network configuration, which returns to DHCP, and saved Wi-Fi networks
- Imported branding images
- Any software update installed from USB — the panel returns to the version it shipped with

Performing a factory reset

1. Leave the B-PASS powered on.
2. Locate the reset button, inside the headphone jack (item 4 in *Introducing the B-PASS*).
3. Use a pin to press and hold it for 5 seconds, then release.
4. The panel erases its configuration and reboots automatically. The first start after a reset takes longer than usual.

After a factory reset

1. Sign in with the default credentials — **admin** / **4308**.
2. Re-add the CASTER devices in **Settings › CASTER**.
3. Re-assign the Admin Tags in **Settings › Admin Tag**.
4. Re-apply the security, network and display settings; rejoin Wi-Fi and reconnect the calendar if calendar control was used.
5. Re-install the current software from a USB drive — see *Software update*.
6. Change the administrator password in **Settings › User**.

SPECIFICATIONS

System	**Processor**	Quad-core ARM Cortex-A55
	Memory	2 GB RAM; 16 GB internal storage
	Operating system	Android 11
	Software update	Online from the Bettear update server, or from a USB drive (Settings › Application)
Display	**Screen**	8" IPS LCD touch screen
	Resolution	1280 × 800, 16:10
	Active area	172.2 × 107.6 mm
	Brightness	300 cd/m²
	Contrast	800
	Viewing angle	85° / 85° / 85° / 85° (L / R / U / D)
Interfaces	**Ethernet**	RJ45, 10 / 100 / 1000 Mbps, PoE IEEE 802.3at Class 4 (25.5 W)
	USB	2 × USB-A (host; one USB-to-RS232 serial); USB-C with OTG
	NFC	13.56 MHz — ISO 14443A / B, ISO 15693, MIFARE Classic, FeliCa
	Storage	microSD (TF) slot, up to 64 GB
	Bluetooth	5.2
	Wi-Fi	802.11 a/b/g/n/ac/ax (Wi-Fi 6) — internet access for calendar control and online updates
	Audio	3.5 mm headset jack (earphone + microphone); reset button inside

Specifications are taken from the B-PASS product datasheet, Rev 1.0, September 2026.

Security

Passkey generation	Room calendar (Google Calendar, Microsoft 365, any published .ics); NFC admin tag (NDEF-compatible); or third-party control system via API
Calendar access	Read-only, direct from the panel to the calendar provider; no intermediary server
Passkey length	Adjustable
Passkey characters	Digits; digits + letters; digits + letters + symbols
On-screen access	QR code and access information — can be shown or hidden

Power

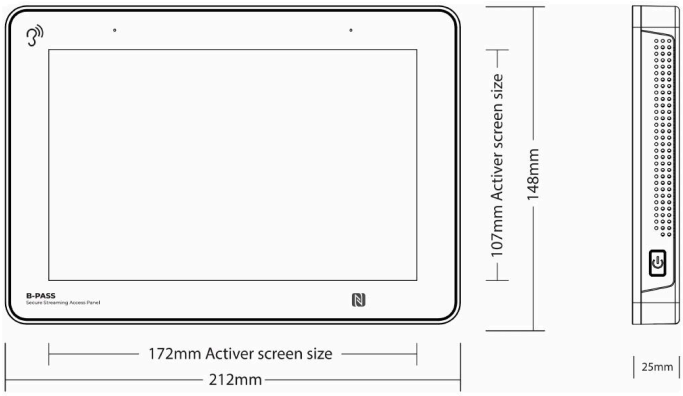
DC input	12 VDC, 1.5 A, centre-positive; barrel Ø 4.0 / Ø 1.7 × 9.0 mm
PoE	IEEE 802.3at, Class 4, 25.5 W
Single-cable install	Connect to CASTER LAN 2 for power and network over one cable — needs an active CASTER-S license on the CASTER and CASTER X; no license on the CASTER XD

Regulatory

EU	CE — RED 2014/53/EU
Safety / health	EN IEC 62368-1; EN IEC 62311
EMC	EN 301 489-1 / -3 / -17; EN 55032; EN 55035; EN IEC 61000-3-2; EN 61000-3-3
Radio	EN 300 328 (2.4 GHz); EN 301 893 (5 GHz); EN 300 440; EN 300 330 (13.56 MHz NFC)
USA	FCC Part 15 Subpart B
Environmental	RoHS 2011/65/EU + (EU) 2015/863

PHYSICAL

Dimensions	212 × 148 × 25 mm
Weight	647 g (1.42 lbs)
Shipping weight	1,110 g (2.44 lbs)
Colour	Black
Mounting	Desktop, or wall via VESA 75 × 75 mm bracket



In the box & add-ons

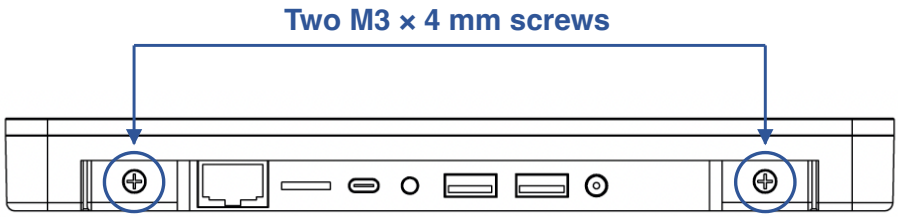
Supplied	B-PASS; VESA mounting bracket and screws
Required	12 VDC / 1.5 A power supply — not included; or power the panel over PoE
Add-ons	NFC admin tag — not included
Compatible devices	CASTER, CASTER X, CASTER XD; RTX receivers

WALL MOUNTING CONFIGURATION

The B-PASS supports desktop and wall-mounted installation.

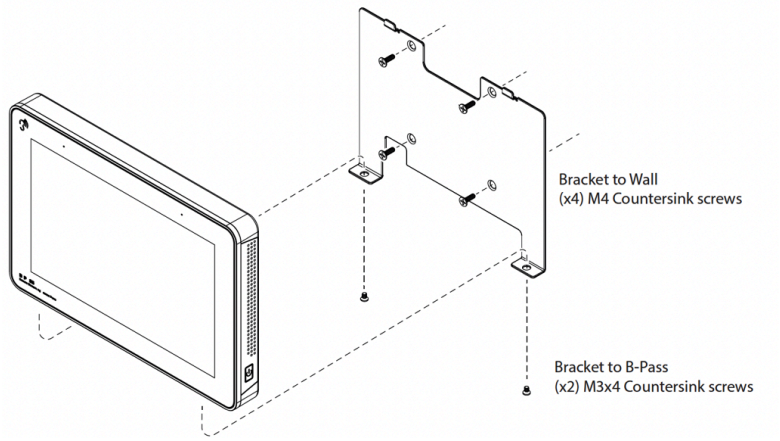
Wall-mounting installation

1. Remove the two screws holding the VESA bracket to the B-PASS.



2. Position the VESA bracket on the wall and secure it using four M4 screws. Screws are included in the B-PASS box.

3. Place the B-PASS back onto the bracket and secure it using the two M3 × 4 mm screws removed in step 1.



ACCESSORIES AND ADD-ONS

VESA mounting bracket	Included
NFC Admin Tag	Not included

WARRANTY

Please visit www.bettear.com for warranty and service information.

> WARNING: Electrical shock hazard. No user serviceable parts inside. To reduce the risk of electrical shock, do not remove or open the cover. Please contact Bettear for assistance.

PRIVACY POLICY

How the panel handles calendar data is described in the B-PASS Privacy Policy at www.bettear.com/b-pass-privacy (also reachable by QR code from Settings › Calendar). For the general privacy policy and service information, visit www.bettear.com.

SUPPORT

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