



Bettetear B-PASS | User Manual

Secure streaming access panel

www.bettetear.com

Software Version: 2.2.3



Highlights:

- Secure Access and Control Panel for Auracast™ Streams
- Seamless Access for Authorized Users
- Passkey Generation via NFC Admin Tag or API
- Adjustable Security Levels
- Supports Desktop and Wall-Mounted Installations
- Fully Compatible with B-CASTER and B-RTX Devices

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OVERVIEW

The B-PASS is designed to ensure 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 authorized listeners present on-site. Unauthorized users or 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, the B-PASS automatically manages and updates the broadcast passkey between sessions, ensuring that only the relevant audience can join.

Security level can be customized to meet project requirements.

Passkey updates can be performed in two ways:

1. By NFC Admin Tag

Tap an NFC Admin Tag on the B-PASS to generate a new passkey.

*Only NDEF-compatible tags are supported.

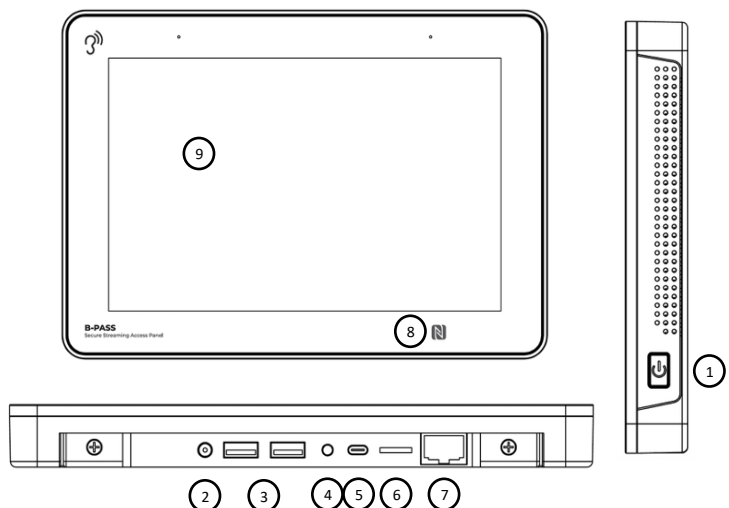
2. Via API

Integrate the B-PASS and B-CASTER with a third-party control system to schedule or automate passkey generation.

The B-PASS provides the ideal balance between strong security and seamless user access.

INTRODUCING THE B-PASS

1. Power Button
2. Power Input: 12VDC / 1.5A
3. USB-A Ports (x2)
4. Headphone Jack + Reset Button
5. USB-C Port
6. Micro SD card slot
7. LAN with PoE (IEEE802.3at)
8. NFC Reader Area
9. Touch Screen (8")



INSTALLATION

Connect to Power

Power the B-PASS using either:

- A 12V DC power supply, or
- PoE via the LAN (RJ45) port

For simplified installation, the B-PASS can be connected directly to LAN 2 on a B-CASTER, providing both power and network access through a single Ethernet cable.

Note: LAN 2 PoE output requires an active CASTER-S license.

Connect to Network

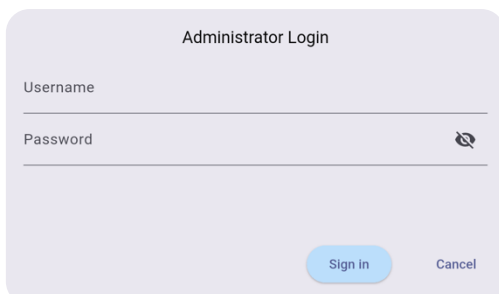
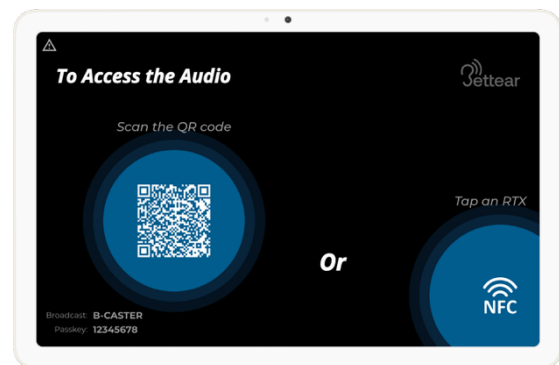
Connect the B-PASS to the same network as the B-CASTER devices, either:

- Directly to LAN1 or LAN2 of a B-CASTER, or
- Via an Ethernet switch

Configure the B-PASS

Access the Settings Panel

1. On the main screen, tap the blue NFC circle area six times.



Administrator Login

Username

Password

Sign in Cancel

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

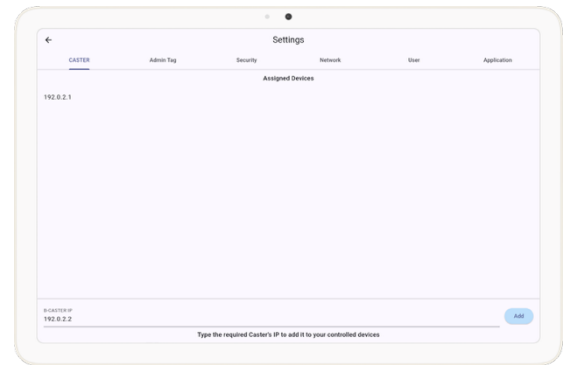
Default credentials: Username — admin | Password — 4308

Add / Remove CASTER Devices

To **Add** a B-CASTER:

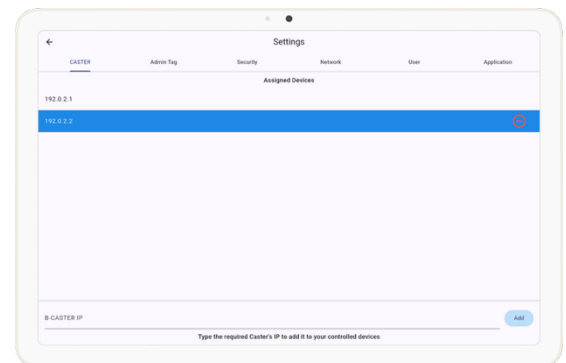
1. Go to **Settings** -> **CASTER**
2. Enter the IP address of the B-CASTER in the IP field
3. Tap **Add**

*Repeat steps 2-3 to add additional devices.



To **remove** a B-CASTER:

1. Go to **Settings** -> **CASTER**
2. Select a device from the **Assigned Devices** list
3. Tap the Remove icon 

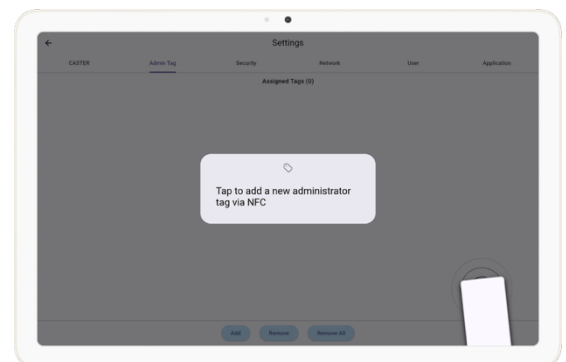


Add / Remove Admin Tags

To assign an Admin Tag:

1. Go to **Settings** -> **Admin Tag**
2. Tap **Add**
3. Tap the Admin Tag to the NFC Reader area

Note: only NDEF-compatible tags are supported

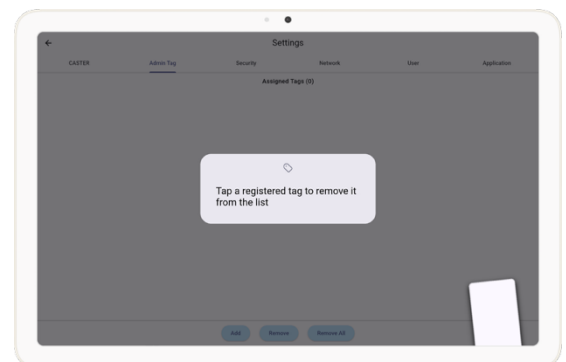


To Remove a specific Admin Tag:

1. Go to **Settings** -> **Admin Tag**
2. Tap **Remove**
3. Tap the Admin Tag you wish to unassign

To remove all Admin Tags:

1. Go to **Settings** -> **Admin Tag**
2. Tap **Remove All**
3. Confirm deletion





Adjust the Security Level

Go to **Settings** -> **Security**

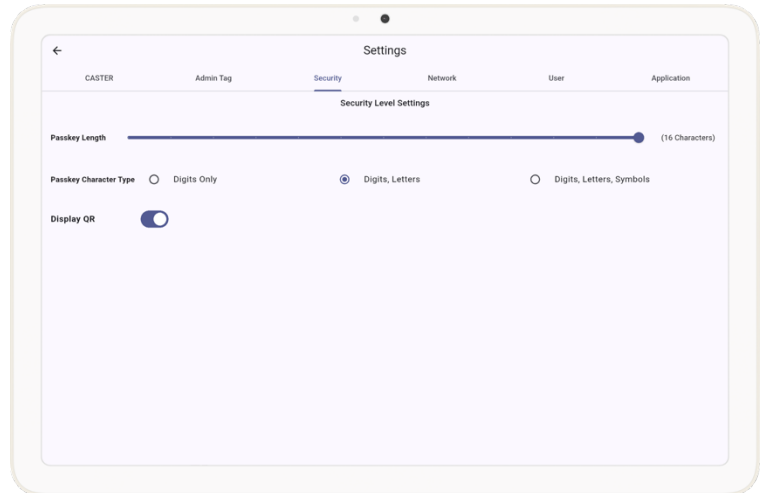
Available Options:

Passkey Length – defines the number of characters the passkey contains.

Passkey Character Type – sets the complexity of the passkey by selecting the type of characters it contains:

- Digits only
- Digits + letters
- Digits + letters + symbols

Display QR – enables or disables showing the QR code and access information on screen.



Network Configuration

Go to **Settings** -> **Network**

DHCP Mode (default):

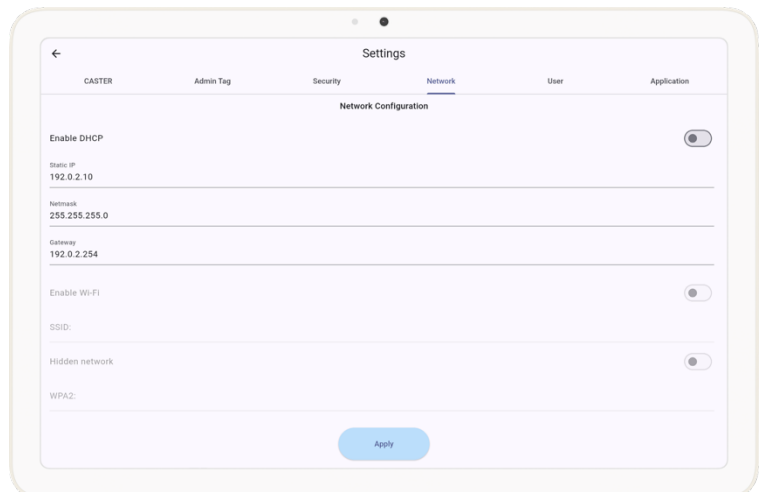
Automatically assigns IP settings from network DHCP server.

Static IP Mode:

Disable DHCP to manually assign IP address, subnet mask, gateway.

Ethernet Mode:

Disable Wi-Fi mode to use wired network.

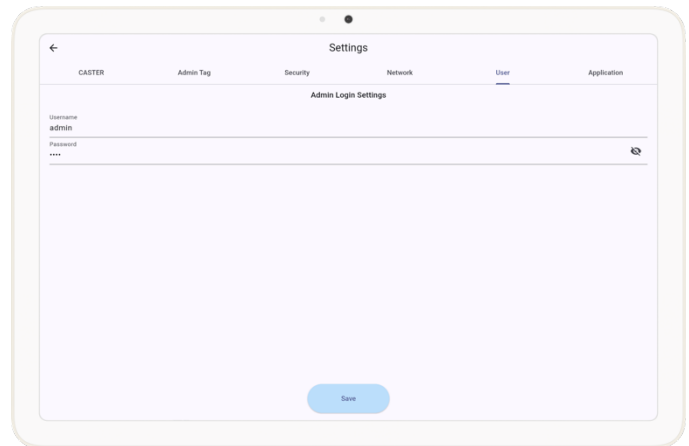


Wi-Fi Mode:

Enable Wi-Fi mode to connect the B-PASS over a wireless network.

*Upcoming feature – currently disabled

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



SOFTWARE UPDATE

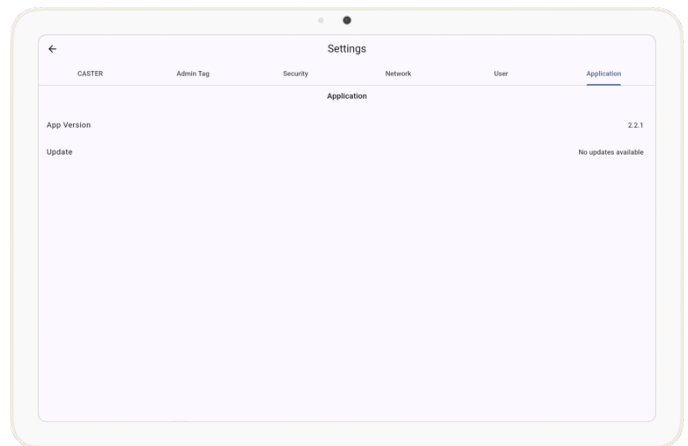
Steps to update your B-PASS:

1. Download the update file (bpass.apk) from www.betttear.com
2. Copy it to a USB flash drive (root folder)
3. Insert the USB drive into a USB-A port on the B-PASS
4. Go to **Settings** -> **Application**

5. Tap **Update**

Note: The Update button appears only if a newer software version is available on the USB drive.

6. The application will restart automatically



FACTORY RESET

Use a pin to press and hold the reset button (inside the headphone jack) for 5 seconds.

After the factory reset completes, the B-PASS will reboot automatically.

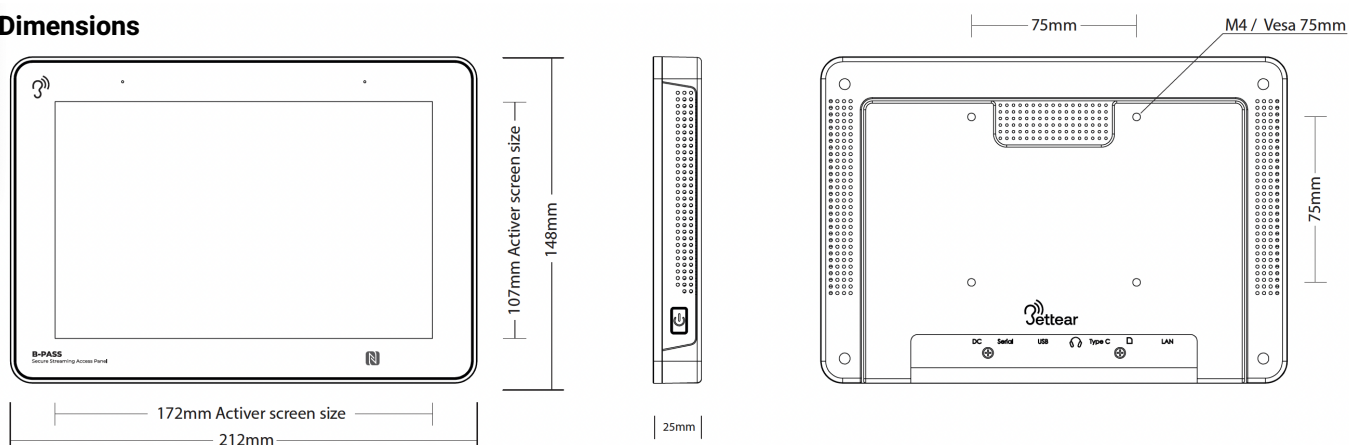
SPECIFICATIONS

System	CPU	RK3568 Cortex-A55 Quad-Core
	RAM	2GB
	Internal Memory	16GB
	OS	Android 11
Display	Screen	8" LCD IPS panel
	Resolution	1280×800
	Viewing angle	85/85/85/85 (L/R/U/D)
	Contrast	800
	Brightness	300 cd/m2
	Screen scale / area	16:10 / Display area: 172.224(H)x107.64mm(V)
Interfaces	Wi-Fi	802.11 a/b/g/n/ac/ax (Wi-Fi 6)
	Ethernet (RJ45)	10/100/1000 Mbps Ethernet with PoE (IEEE 802.3at, Class 4, 25.5W)
	Bluetooth	Bluetooth 5.2
	NFC	13.56 MHz, ISO14443A / ISO14443B / ISO15693, MIFARE Classic, Sony FeliCa
	TF card slot	Supports up to 64 GB
	USB-A (Host)	Supports USB peripherals (keyboard, mouse, storage devices)
	USB-A (Serial)	USB-to-RS232 (for configuration / maintenance)
	Type-C	Data transfer and external device support (OTG)
	Headset jack	3.5mm earphone + microphone
	Power	DC power jack
Power	DC In	12V DC / 1.5A, center-positive, DC barrel: Ø4.0 mm (outer) / Ø1.7 mm (inner), length 9.0 mm
	PoE	IEEE 802.3at, PoE class 4, 25.5W
Others	Wall-mounting	VESA 75 x 75 mm

PHYSICAL

Weight	647g (1.42 lbs)
Shipping Weight	1,110g (2.44 lbs)
Color	Black

Dimensions

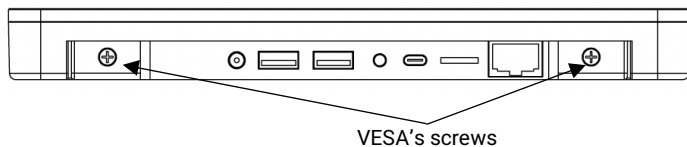


WALL MOUNTING CONFIGURATION

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

Wall-Mounting Installation:

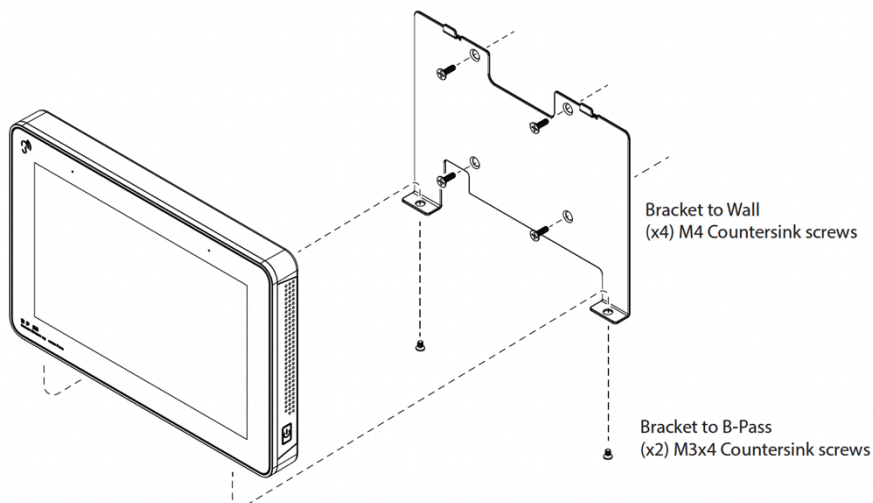
1. Remove the two screws holding the VESA wbracket to the B-PASS.



2. Position the VESA bracket on the wall and secure using four M4 screws.

*Screws are included in the B-PASS box.

3. Place the B-PASS back onto the bracket and secure using the two removed M3 x 4mm screws.



ACCESSORIES AND ADD-ONS

Power Supply – 12VDC/1.5A	Included
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

Please visit www.bettear.com for privacy policy and service information.

SUPPORT

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