# B-PASS | Custom Backgrounds

Design guide · Secure streaming access panel

www.bettear.com

Software Version: 2.10




## Highlights:

- Put your own artwork behind the visitor screen — branding, event signage, sponsors or wayfinding
- A separate image for each layout: with the QR code, and without it
- A graphic mask package shows exactly which parts of the screen stay visible
- Design in your browser with the free B-PASS Background Designer, or in any image editor that supports layers
- Install from a USB flash drive in under a minute; change it per event without touching other settings

# TABLE OF CONTENTS


**QUICK START** 3

**01 YOUR ARTWORK ON THE VISITOR SCREEN** 4

What stays on top 4

Two layouts, two images 4

**02 BEFORE YOU START** 5

Image requirements 5

Choose which layouts to design 5

Mind the contrast 5

**03 THE GRAPHIC MASK PACKAGE** 6

What is inside 6

Colour key 6

**04 DESIGNING YOUR BACKGROUND** 7

Step by step 7

Design tips 7

The online Background Designer 8

Quick recipes for common editors 8

Using the alpha mask 8

**05 INSTALLING THE BACKGROUND ON THE PANEL** 9

Open the Settings panel 9

Import the images 9

**06 CHECKING, CHANGING AND REMOVING** 10

Check the result 10

Change or remove an image 10

Troubleshooting 10

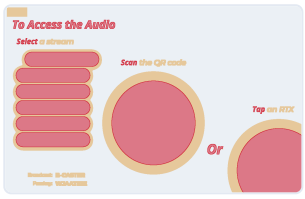
# QUICK START

Six steps from your picture to the panel. Everything here is explained in more detail in the sections that follow.

> **Easiest way:** the free **B-PASS Background Designer** at **www.bettear.com/b-pass-background** does steps 1–5 in your browser. Upload your picture, place and size it on the screen, check it under the panel's controls and download both PNGs, ready for step 6.

## 1 Download the templates

Get *B-PASS Background Templates 2.10* from www.bettear.com/products/b-pass (Downloads tab) and unzip it.



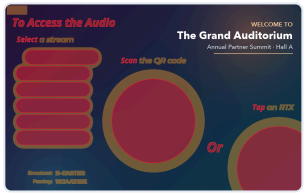

## 2 Make your picture 1280 × 800

Create or crop your artwork to exactly 1280 × 800 pixels in any image editor.




## 3 Put the template on top

Add the matching *overlay* file as the top layer. It shows where the panel's buttons will sit.




## 4 Design around the colours

Keep your logo and text in the clear area — but fill the whole picture with your background, under the red and amber areas too, so it runs seamlessly behind the panel's buttons with no gaps or white edges.

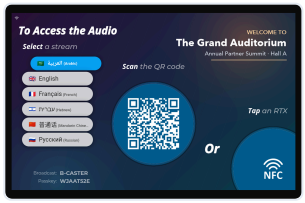
**Red: covered** **Amber: keep simple** **Clear: yours**

## 5 Remove the template, save as PNG

Hide or delete the template layer, then save a PNG at 1280 × 800.

## 6 Load it on the panel

Copy the PNG to a USB drive and plug it into the panel. Tap the NFC circle 6 times and sign in, open **Display**, switch on **Branding Enabled**, tap the image slot and pick your file.




Need more detail? Sections 01–06 explain each step, the template package and troubleshooting.

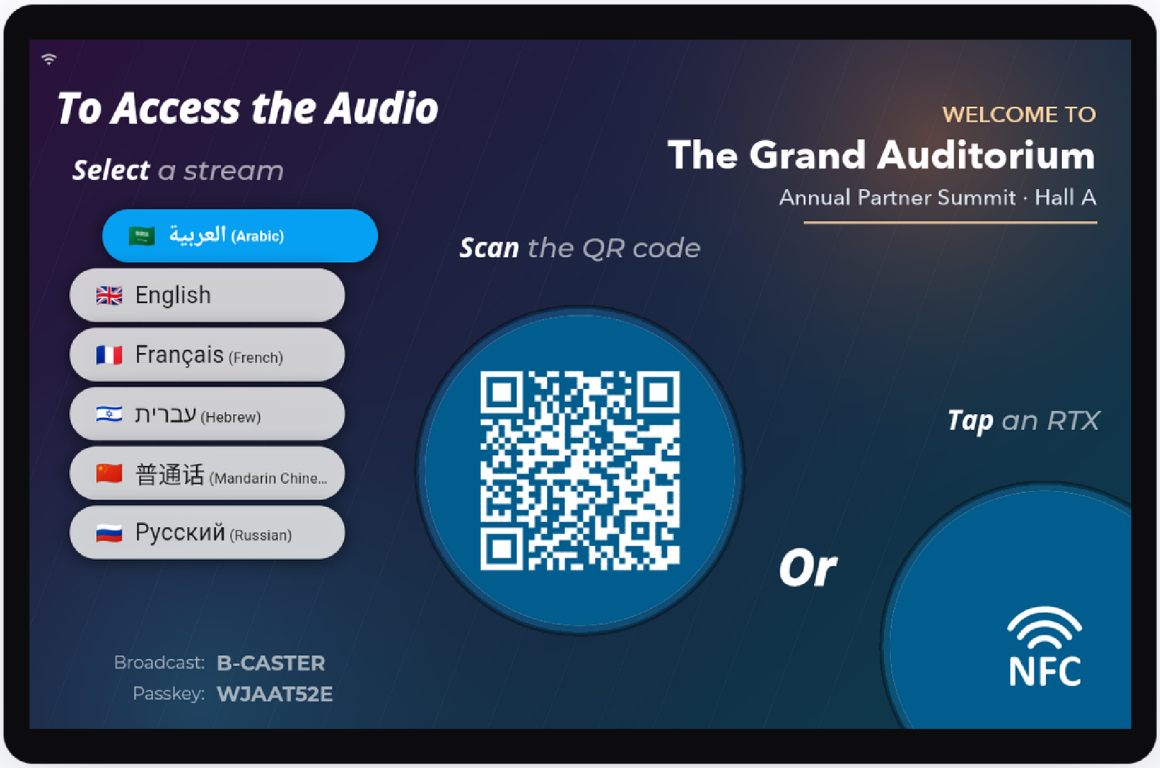
# 01 | YOUR ARTWORK ON THE VISITOR SCREEN

> The visitor screen can carry your own image behind the panel's controls. Visitors still see the QR code, the NFC dial and the stream list exactly where they expect them — but on your background instead of the standard one.

A custom background is not limited to a logo. It works equally well as signage: a venue or exhibit name, a welcome message for an event, sponsor artwork, or directions to the next room. Because it is a single image file, it can be swapped for each event without changing anything else on the panel.

## What stays on top

The panel's own controls are always drawn over your image: the headings, the QR dial, the NFC dial, the stream list on multi-channel panels, the broadcast name and passkey, and the status icons at the top left. While a custom background is in use, the Bettear mark at the top right is hidden, so the artwork carries your own identity.




A custom background on a multi-channel panel. Everything in the left half and the two dials comes from the panel; the title at the top right is part of the artwork.

## Two layouts, two images

The panel keeps one image for each layout, and picks the right one by itself:

| SLOT | USED WHEN |
|---|---|
| **QR Display** | **Display QR** is on (Settings › Display). Covers both the single-stream and the multi-channel screen — which one appears depends on how many streams the CASTER offers. |
| **No-QR Display** | **Display QR** is off — visitors join by tapping an RTX only. |

# 02 | BEFORE YOU START

## Image requirements

| ITEM | REQUIREMENT |
|---|---|
| **Size** | 1280 × 800 pixels — the panel's screen. An image of another shape is scaled to fill the screen and cropped at the edges; a smaller one is enlarged and looks soft. |
| **Format** | PNG. The panel's image browser lists PNG files only. |
| **Layers** | One flat image. Export without the mask layer (see section 04). |
| **Transfer** | A USB flash drive inserted into a USB-A port on the panel. |
| **Software** | Any image editor that supports layers — Adobe Photoshop, Figma, GIMP, Affinity Photo, Canva and similar. |

## Choose which layouts to design

- **Display QR on, one stream** — design one QR image against the *QR single* mask.
- **Display QR on, more than one stream** — design one QR image against the *QR multi-channel* mask. Its stream list covers much more of the screen.
- **Display QR off** — design a No-QR image against the *No-QR* mask.

> **One QR image serves both QR layouts.** If the CASTER may ever offer more than one stream — for example an interpretation channel added for a single event — design the QR image against the multi-channel mask. Artwork that clears the multi-channel controls also clears the single-stream ones.

> Design the No-QR image separately rather than reusing the QR one. Without the QR dial the free area is a different shape — about 90% of the screen, against 73% (QR single) and 59% (QR multi-channel).

## Mind the contrast

The panel's headings, labels and passkey are drawn in **white**. Keep the areas around them dark or mid-toned so visitors can read them from a distance. A very light background behind the left half of the screen makes the instructions hard to read.

# 03 | THE GRAPHIC MASK PACKAGE

The **B-PASS Background Templates 2.10** package is a free download from **www.bettear.com/products/b-pass**. Its zones were measured from the running 2.10 software over pure black and pure white backgrounds, not drawn by hand, so they match the panel to the pixel.

## What is inside

| FILE | WHAT IT IS FOR |
|---|---|
| `*-overlay.png` | A transparent PNG, 1280 × 800. Place it over your artwork as the **top layer** while you design. This is the file you will use most. |
| `*-guide.png` | A reference sheet with a colour legend — for looking at or printing, not for layering. |
| `*-alpha.png` | The raw coverage mask: white where the panel's own controls cover the screen. For advanced use — a layer mask, a selection, or an automated check. |

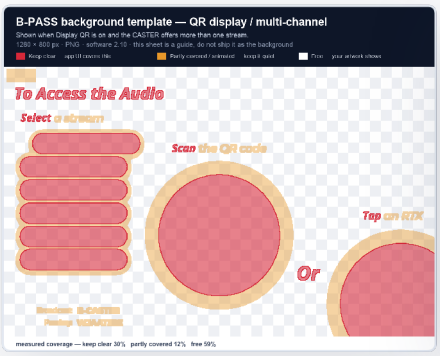
Each set comes in three layouts: `bpass-qr-multi-` (Display QR on, more than one stream), `bpass-qr-single-` (Display QR on, one stream) and `bpass-no-qr-` (Display QR off).

## Colour key

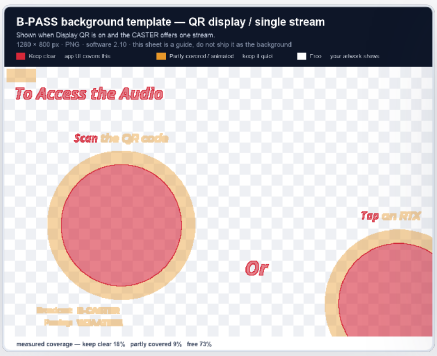
**Red — covered**
The panel's controls sit here. Artwork underneath will not be seen.

**Amber — keep it quiet**
Partly covered, or crossed by the animated rings around the dials. No text, faces or fine detail.

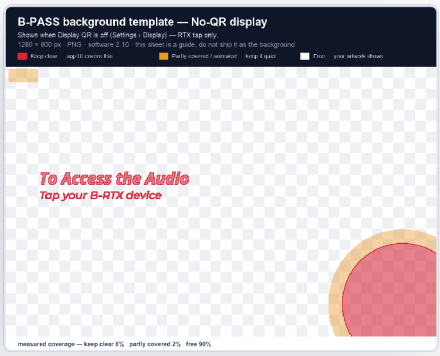
**Clear — yours**
Fully visible. Put logos, titles and messages here.




QR, multi-channel



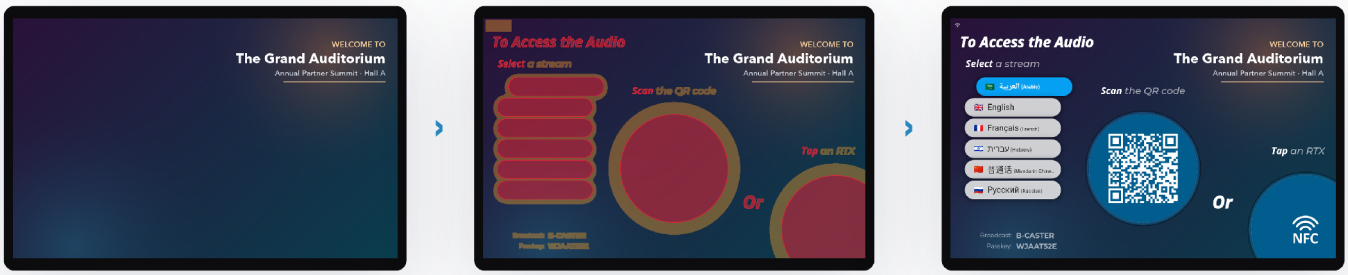

QR, single stream




No-QR

> Templates made for software 2.8.x are out of date: in 2.10 the NFC dial sits lower, both dials breathe with animated rings, and a Wi-Fi status icon may appear at the top left. Re-check older backgrounds against the 2.10 masks.

# 04 | DESIGNING YOUR BACKGROUND




1 · Your artwork, 1280 × 800 — 2 · Checked under the overlay — 3 · On the panel

## Step by step

1. Create a new document of **1280 × 800 pixels**, or open your artwork and crop it to that size.
2. Add the matching `*-overlay.png` as the **top layer**, aligned to the top-left corner at 100%. Lock it so it cannot be moved by accident.
3. Design underneath it. Keep logos, faces and text out of the **red** areas, and keep the **amber** areas free of detail.
4. Fill the **whole canvas** with your background — under the red and amber areas as well. The panel's buttons then sit on continuous artwork, with no gaps, hard edges or white patches showing around them.
5. Check the contrast around the panel's white text — the headings at the top left, the labels above the dials and the broadcast details at the bottom left.
6. **Hide or delete the overlay layer.** Forgetting this step puts the red and amber marks on the panel.
7. Export a flat **PNG at 1280 × 800**. Give it a clear name, such as `grand-auditorium-qr.png`.
8. Repeat for the No-QR image if the panel will run with Display QR off.

## Design tips

- In the QR layouts the **top right** is the largest free area — the natural place for a title or logo.
- Soft gradients, photography and textures work well across amber areas; text and thin lines do not.
- To use the panel as **assistive listening signage**, add the International Symbol of Access for Hearing Loss in a clear area, as on the cover. The symbol is in the public domain.
- Keep logos and text about 20 px in from the edges of the screen; the background itself runs right to the edge.
- Look at the result from three metres away. A visitor reads the panel from the doorway, not from the desk.

## The online Background Designer

### B-PASS Background Designer — www.bettear.com/b-pass-background

1. Choose **QR display** or **No-QR display** and upload your picture. Each screen keeps its own image while you switch between them.
2. Drag to move it; scroll, pinch or use the size slider to resize. **Fill screen** covers the whole screen; anything outside it is cropped.
3. Check it with **Panel preview** (the panel's own controls on top) and **Design zones** (the red and amber areas). On the QR screen, preview with several streams and with one.
4. Tap **Download both PNGs**. The files are 1280 × 800, ready to import — continue with section 05.

Your picture stays in your browser; nothing is uploaded to Bettear.

## Quick recipes for common editors

### Adobe Photoshop

1. File › New, 1280 × 800 px, 72 ppi, RGB.
2. File › Place Embedded the overlay PNG; press Enter to place it at full size, move it to the top and lock it.
3. Design on the layers below. Before exporting, switch off the overlay layer's eye icon.
4. File › Export › Export As › PNG, 1280 × 800.

### Figma

1. Draw a frame of 1280 × 800.
2. Drag the overlay PNG into the frame, set it to X 0, Y 0, W 1280, H 800, bring it to the front and lock it.
3. Before exporting, hide the overlay layer.
4. Select the frame and export as PNG at 1x.

### GIMP

1. Open your 1280 × 800 artwork, then File › Open as Layers and choose the overlay PNG.
2. Keep the overlay at the top of the Layers panel and lock its position.
3. Hide the overlay, then File › Export As and save as PNG.

### Canva

1. Create a design with custom size 1280 × 800 px.
2. Upload the overlay PNG, stretch it to fill the page and move it to the front.
3. Delete the overlay before downloading. Download as PNG.

## Using the alpha mask

The `*-alpha.png` files are greyscale: **white** where the panel covers the screen, **black** where your artwork shows. Use them when the overlay is not enough — for example, load one as a selection in Photoshop to see exactly what an area of artwork will lose, use it as a layer mask to dim only the covered parts, or compare it against artwork automatically when backgrounds are produced in quantity.

# 05 | INSTALLING THE BACKGROUND ON THE PANEL

## Open the Settings panel

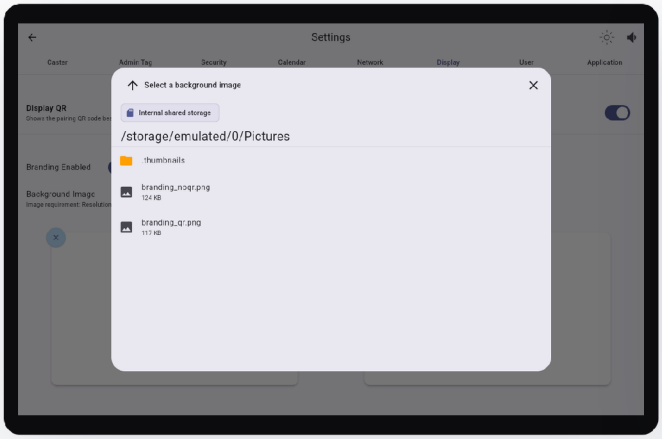
1. Copy the PNG files to a USB flash drive and insert it into a USB-A port on the panel.
2. On the visitor screen, tap the blue **NFC circle six times** in quick succession (within five seconds).
3. Enter the administrator credentials and tap **Sign in**.

   **Default credentials:** Username — admin | Password — 4308. Change them in Settings › User before the panel goes into service.

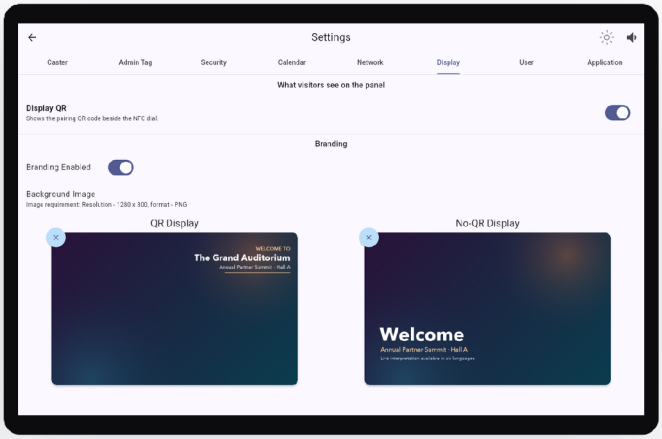



## Import the images

4. Open the **Display** tab and switch **Branding Enabled** on.
5. Tap the **QR Display** slot (or **No-QR Display**).
6. Choose **USB drive** at the top of the browser, find the file and tap it. The image appears in the slot at once.
7. Repeat for the other slot if needed, then tap the back arrow to return to the visitor screen.




The image browser opens on the USB drive

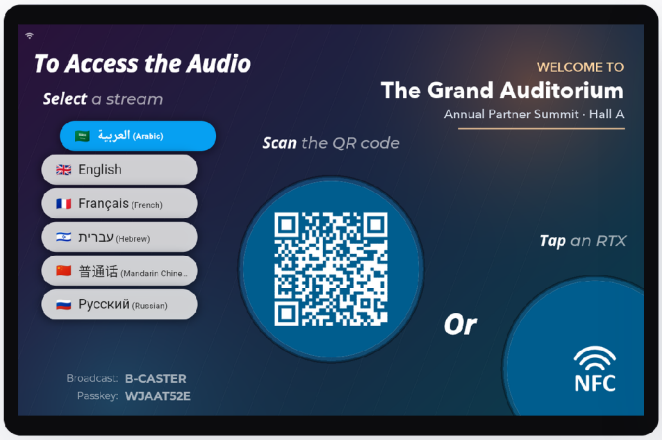



Branding on, with both slots filled

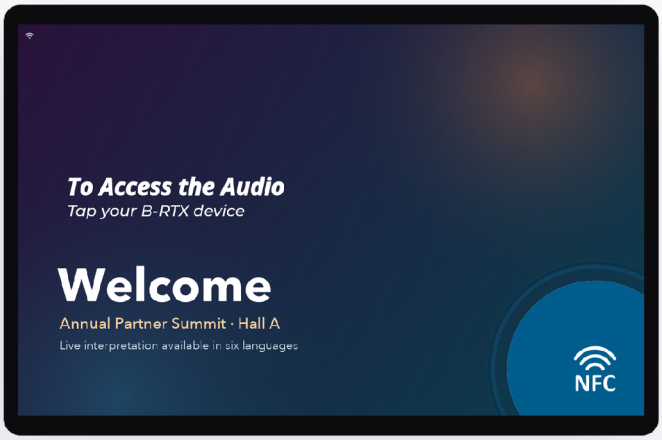
The images are copied into the panel, so the USB drive can be removed afterwards.

# 06 | CHECKING, CHANGING AND REMOVING

## Check the result




QR Display background in place




No-QR Display background in place

- Read every heading, label and the passkey from about three metres away.
- If both slots are used, switch **Display QR** off and on (Settings › Display) to see each layout.
- On a multi-channel panel, make sure the stream list does not hide anything important.

## Change or remove an image

- **Replace:** tap the slot and choose a new file. The new image shows at once.
- **Clear one slot:** tap the **×** on that slot.
- **Back to standard:** switch **Branding Enabled** off. The imported images are kept, so switching it on again restores them.

## Troubleshooting

| WHAT YOU SEE | WHAT TO DO |
|---|---|
| The file is not in the browser | It must be a **.png** file. Check that **USB drive** is selected at the top of the browser and that the drive is fully inserted. |
| Red and amber marks on the panel | The overlay was exported with the image. Hide it and export again. |
| The image is cropped or blurry | Export at exactly 1280 × 800 pixels. |
| Part of a logo or title is missing | It sits in a red area. Move it into the clear area of the matching mask. |
| The instructions are hard to read | Darken the artwork around the panel's white text. |
| The standard background still shows | Switch **Branding Enabled** on, and make sure the slot for the current layout — QR or No-QR — has an image. |