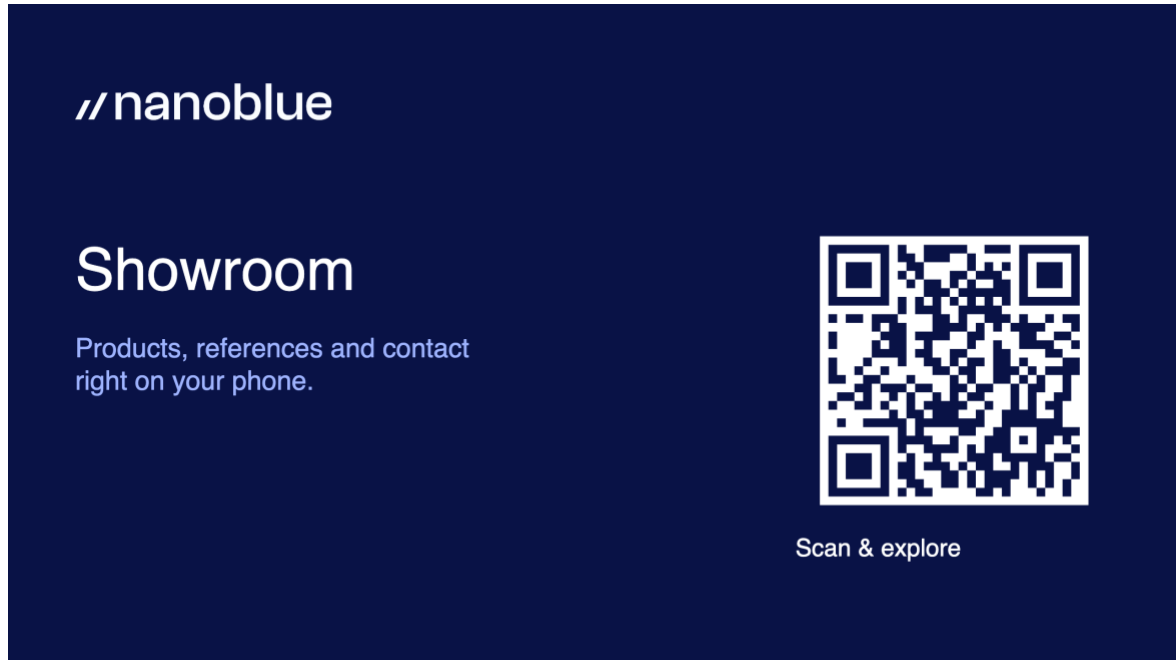


//nanobblue

nanobblue® QR Connect

Scan the display, explore on your phone – no app, no sign-up



A display with a QR code. The code changes every minute.

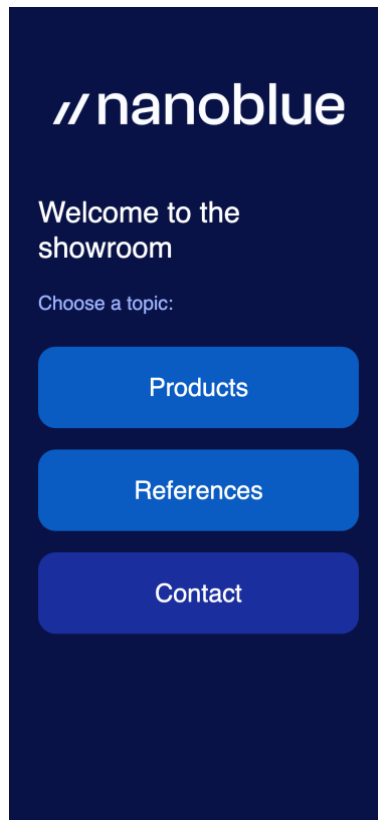
What it does

QR Connect shows a QR code on a display (Interactive UI). Visitors scan it with their phone camera and get their own interface in the browser – the **guest UI**. There they browse pages and content on their own. The large display keeps running unchanged, and any number of visitors can view their own page at the same time.

- **No app, no registration:** Open the camera app, scan the code, done.
- **Only people at the display:** The code changes every minute and is valid for 3 minutes at most. A photographed or forwarded code soon becomes useless.
- **View only:** In the current version (phase 1) the phone does not control anything on the display or the installation.
- **Designed in UI Studio:** The guest UI is a separate slot “guest” in portrait format – the same tools as for any other interface.

How it works

Step	What happens
1	The display shows the QR code. The nanoblue Player fetches the current code from the nanoblue Core via the nanoblue VPN every minute.
2	The visitor scans the code. The phone opens <a href="https://core.nanoblue.cloud/c/<code>">https://core.nanoblue.cloud/c/<code> .
3	The Core checks the code and signs the phone in as a guest (session up to 30 minutes without activity, 2 hours at most).
4	The phone shows the guest UI of the display. The visitor browses on their own; the display remains unchanged.



The guest UI on the phone (example).

Setup

Setup has three parts: enable the device, design the guest UI, place the QR code on the display.

1. Enable the device

QR Connect is enabled per device on the nanoblue Core. This is done by the nanoblue administrator. As long as a device is not enabled, the QR widget shows “QR Connect: aus” (off).

Setting	Default	Meaning
enabled	off	QR Connect on/off for this device. Switching off also ends all running guest sessions immediately.
Session length	30 min	Idle time after which the phone must scan again
Maximum	120 min	Every session ends at the latest then
Code rotation	60 s	How often a new code appears (all devices)
Code validity	180 s	How long a code can still be scanned

Device requirements: nanoblue Player with the slot system and a nanoblue VPN connection to the Core. The phone needs internet (mobile data or Wi-Fi) – not the same network as the display.

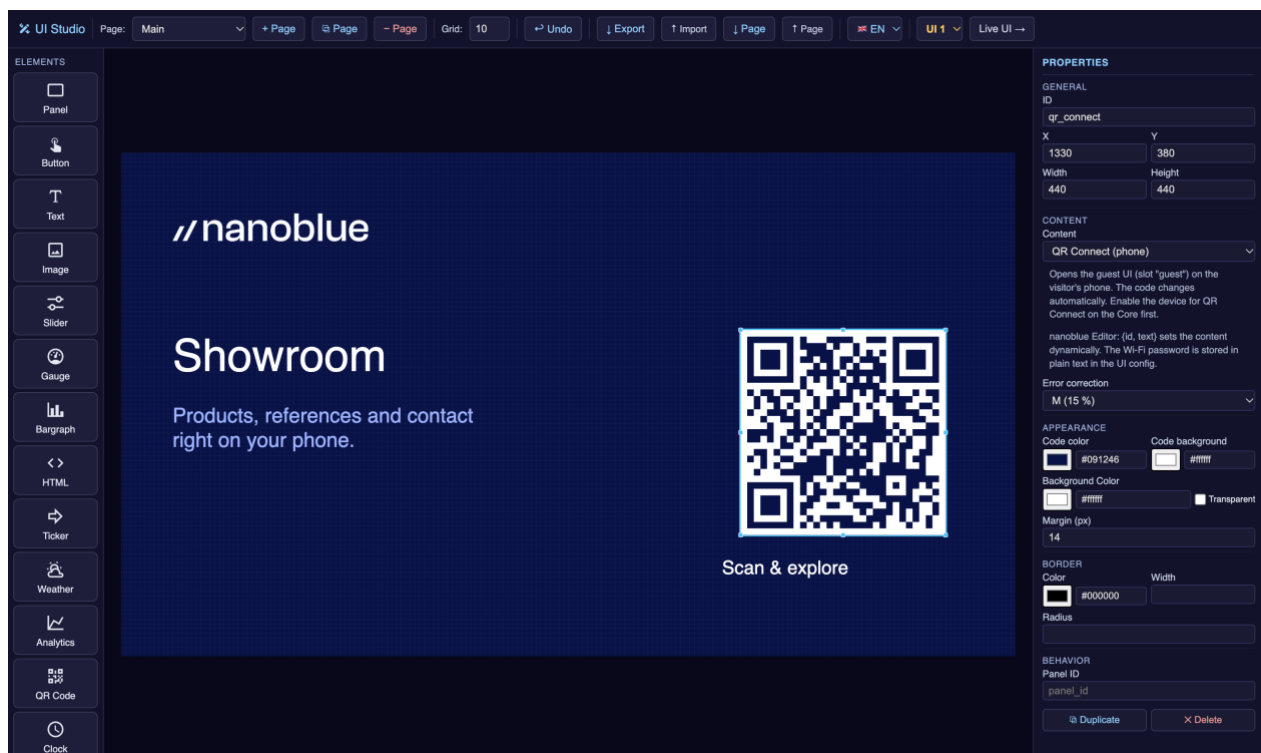
2. Design the guest UI (slot “guest”)

The guest UI is a separate slot of the Interactive UI. In the portal, open the **UI Studio** of the device and select the slot **Gast (guest)** at the top right. If it is missing, create it via “Slots” with the ID **guest**.

- Format: portrait, e.g. 390 × 844 (app settings → width/height). The page is fitted to every phone.
- Large buttons and text from about 18 px – people use their thumb.
- Browsing: buttons with a “Target Page” switch the page – only on the visitor’s phone.
- Texts, images, buttons with page switching and panels are allowed. Buttons that trigger something on the installation have no effect on the phone in phase 1.
- Images from the shared image folder (images) also work on the phone.

3. Place the QR code on the display

In UI Studio, open the interface that runs on the display (e.g. UI 1). Drag the element **QR Code** onto the page and under Content select “**QR Connect (phone)**”. Save – done.

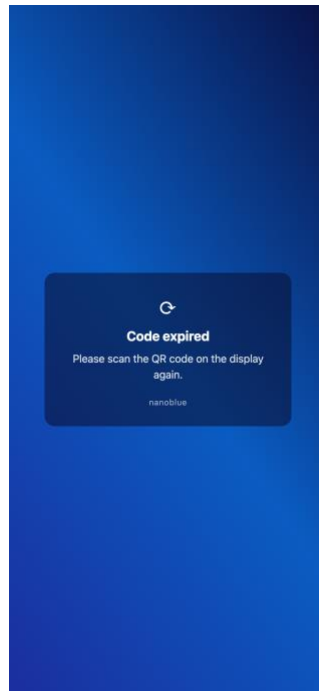


QR widget in UI Studio with content “QR Connect (phone)”.

- Size: at least about 15 × 15 cm on the display so the code is reliably recognised from 1–2 m away.
- Colours: dark code on a light background (code colour / code background). A light code on a dark background is not recognised by some phones.
- Add a short text next to it, e.g. “Scan & explore”.
- The code is updated automatically. The real code appears in the UI Studio preview as soon as the device is enabled.

For visitors

Open the camera app, point it at the code on the display and tap the link shown. The guest UI opens in the browser. Anyone who is inactive for more than 30 minutes or uses an old code sees the “Code expired” page – simply scan again.



Notice for an expired code.

Security and data protection

- The QR code contains no device ID and no credentials, only a short, changing code.
- Guests can only reach the slot “guest” and shared images. UI Studio, configuration, upload, other slots and control are blocked for guests.
- The guest session is a signed, technically necessary cookie, valid only for the guest area. No names, accounts or location data are collected.
- The nanoblu Core counts scans per device (time, valid/invalid) – without IP address.
- Switching off on the Core ends all guest sessions of this device immediately.

Troubleshooting

Problem	Solution
Widget shows “QR Connect: aus” (off)	Device is not enabled on the Core – contact the administrator
Widget shows “QR Connect X”	The player cannot reach the Core (check VPN/internet at the display) or the QR Connect module is missing on the device. The widget retries every 15–30 s.
Phone shows “Code expired”	Code older than 3 minutes or session expired – scan again
Phone shows “Not available”	QR Connect has been switched off for this device
Guest UI is empty or black	Slot “guest” has no pages yet – design it in UI Studio and save
Code is not recognised	Make the code larger, dark code on a light background, avoid reflections on the display
Change in UI Studio missing on the phone	Reload the page on the phone (pull down)

Outlook

- **Phase 2 – remote control:** released buttons on the phone trigger actions on the display (page, video, language); only one visitor controls at a time, with a time limit.
- **Phase 3 – take-away & analytics:** take information and documents about the content currently playing, enquiry form, scan statistics – together with the Vision Sensor also as a scan rate.