

PrintDeck

USER MANUAL

Navigation, setup and everyday printer control



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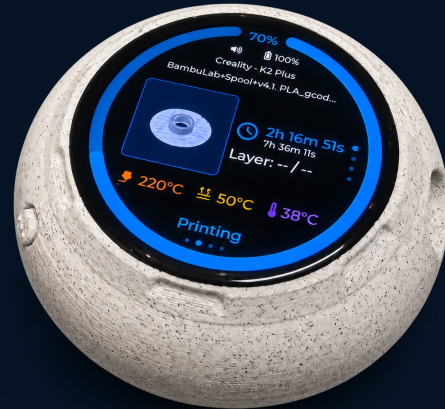
A short visual guide to the screens, shortcuts and product variants.

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POCKET-SIZED PRINTER COMPANION

Your printers. One glance away.

PrintDeck brings live printer status and camera views into one lightweight device you can keep exactly where you need it. Move between multiple printers, follow long jobs and stay informed without opening another dashboard.



01 POCKET-SIZED

Light and compact enough to move from the desk to the workshop.

02 QI WIRELESS CHARGING

Recharge on a compatible Qi pad - no cable routine required.

03 MAGNETIC BY DESIGN

Strong mounting for steel surfaces such as a refrigerator or printer enclosure.

04 ADVANCED MONITORING

Live status, controls, cameras and saved printers in one touch-first interface.

05 CAMERA VIEWS

Check supported local printer cameras directly from PrintDeck.

06 LONG-RUN BATTERY

A large battery is designed to stay with even extended print sessions.

Three purpose-built forms for PrintDeck - designed to be printed, adapted and made your own.



01 THE RIVERSTONE

A pocket-sized round case with MagSafe-compatible Qi charging and integrated magnets for refrigerators, tool cabinets and other metal surfaces.



AUTHOR / CREDIT

Design: kitek



02 THE SCUTTLE

A low, sculpted round enclosure with a clean white shell and contrasting ring and button that can be printed in your own color.



AUTHOR / CREDIT

Design: Gulios



03 SNAPMAKER U1 MONITOR

A miniature companion to the tool-changing Snapmaker U1. Its square PrintDeck screen becomes the dedicated status console the printer was always meant to have.



AUTHOR / CREDIT

Design: kitek

Configuration, Updates and Factory Reset

A guided first start takes only a few minutes. Keep PrintDeck, your phone or computer and every printer on the same local Wi-Fi network.

PrintDeck Web Installer

<https://printdeck.xyz/firmware/>

01 OPEN INSTALLER

On a PC or Mac, open the installer in desktop Google Chrome or Microsoft Edge. Mobile browsers, Safari and Firefox cannot access the USB serial port.

02 CHOOSE & INSTALL

Select the latest release and the correct display. Connect a USB-C data cable, choose First installation / Factory reset, select the ESP32 serial device and wait for 100%.

03 JOIN SETUP WI-FI

After restart, scan the QR code or join the open PrintDeck-Setup network. No password is required. A no-internet warning is normal during setup.

04 OPEN SETUP PAGE

Stay connected to PrintDeck-Setup and open <http://192.168.4.1> in your browser. This temporary address is available only during setup or recovery.

05 JOIN YOUR NETWORK

Choose Scan networks, select your usual Wi-Fi, enter its password, then Save Wi-Fi & restart. PrintDeck and every printer must use the same local network.

06 ADD YOUR PRINTERS

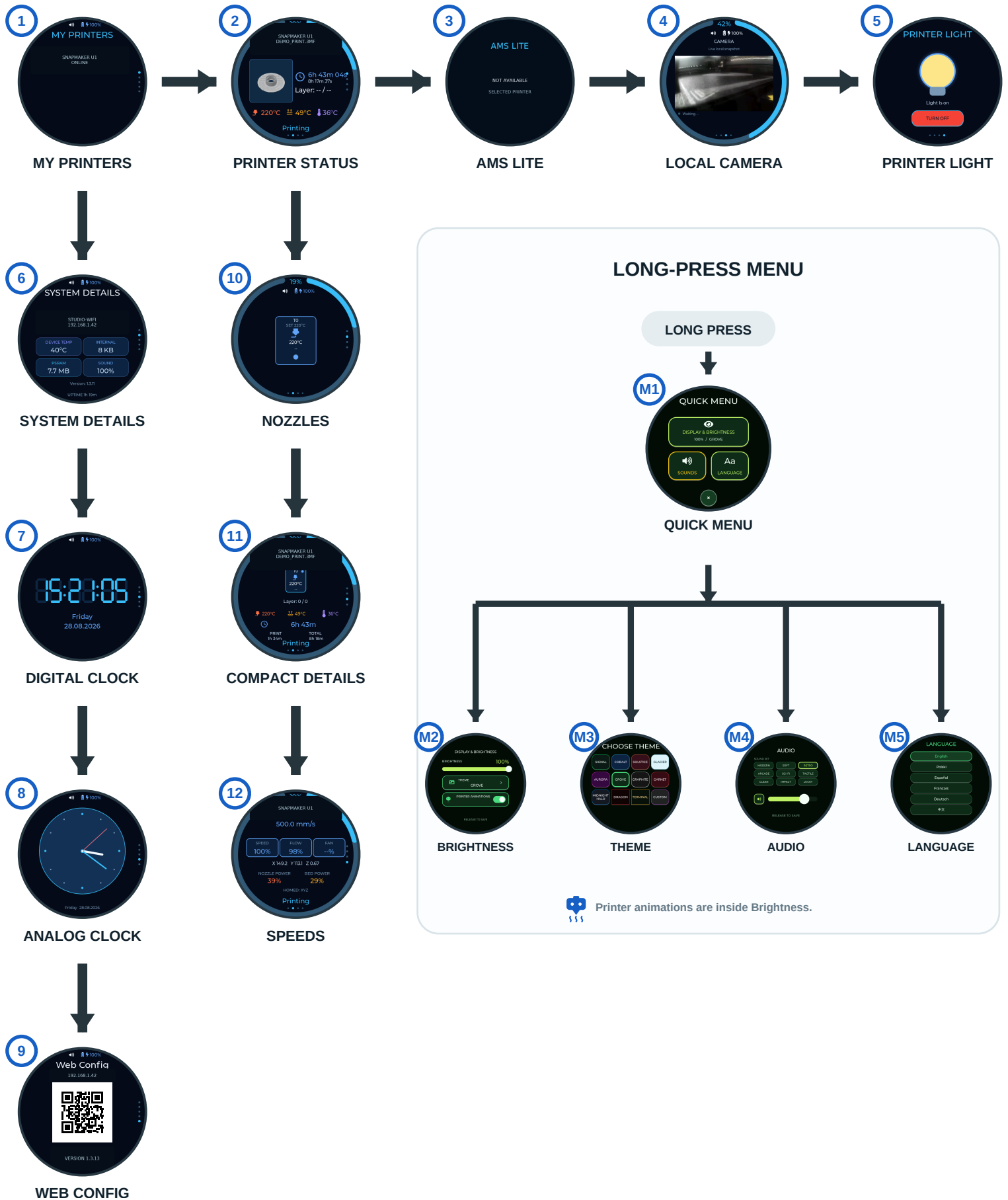
Reconnect your phone or computer to normal Wi-Fi. Open the Web Config address shown by PrintDeck, then add your Klipper / Moonraker or Bambu Lab printer.

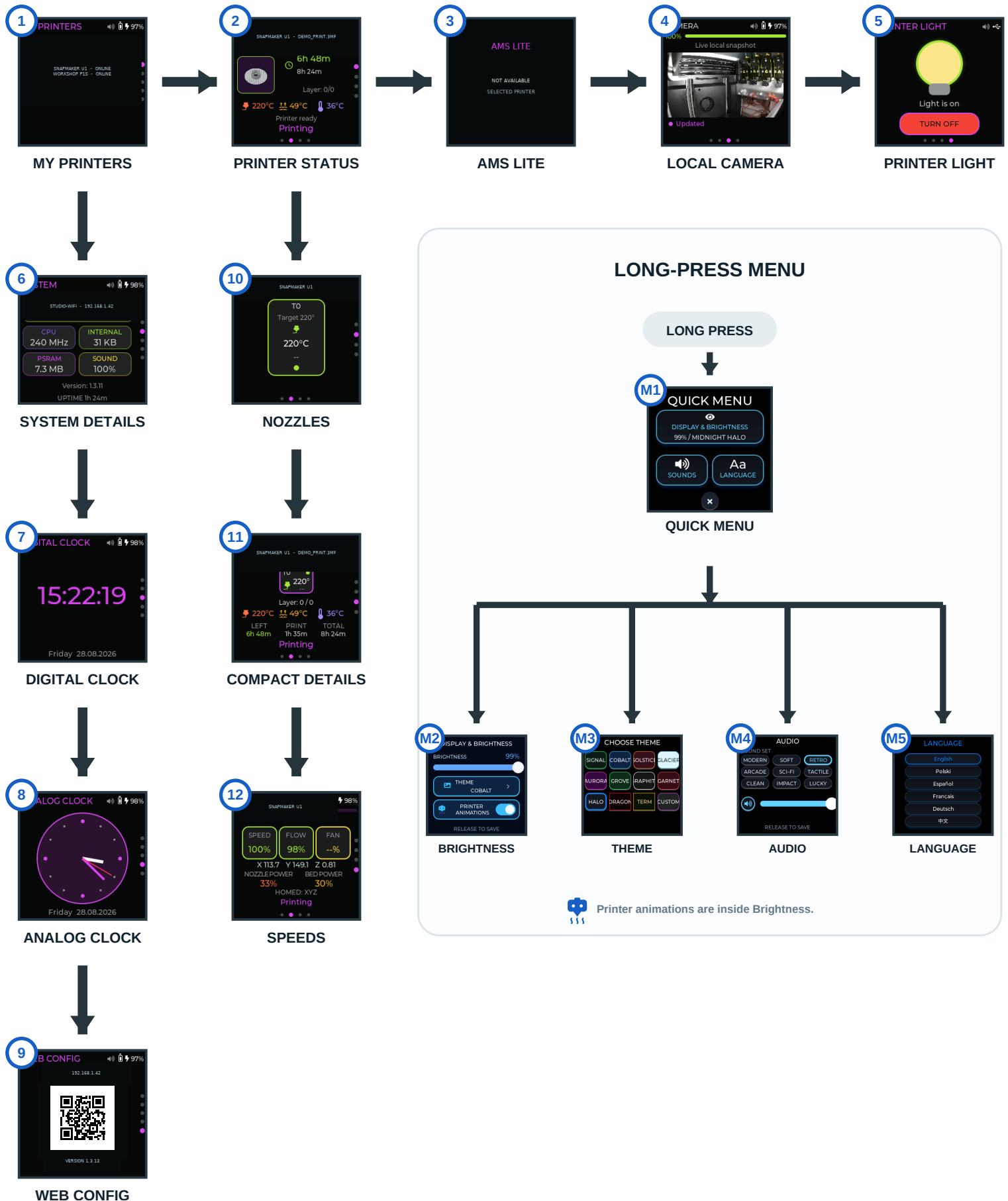
UPDATE WITHOUT LOSING SETTINGS

For the easiest update, open Web Config and choose Device > Firmware > Check for updates, then confirm Install update. Keep PrintDeck powered while it downloads, validates and restarts. You can also return to the Web Installer, choose Firmware update and update over USB. Both update paths preserve saved Wi-Fi, printers and display settings.

FACTORY RESET

Use the Web Installer and choose First installation / Factory reset only when setting up a new display or intentionally starting again. Confirm the full erase when prompted. This removes Wi-Fi, printers and preferences stored on PrintDeck, but it does not change anything on the printer or its controller. After restart, repeat the QR and PrintDeck-Setup steps above.





SCREEN REFERENCE

SCREEN NAVIGATION

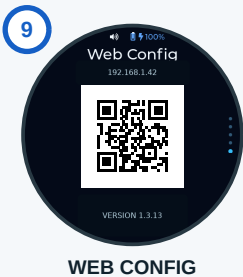
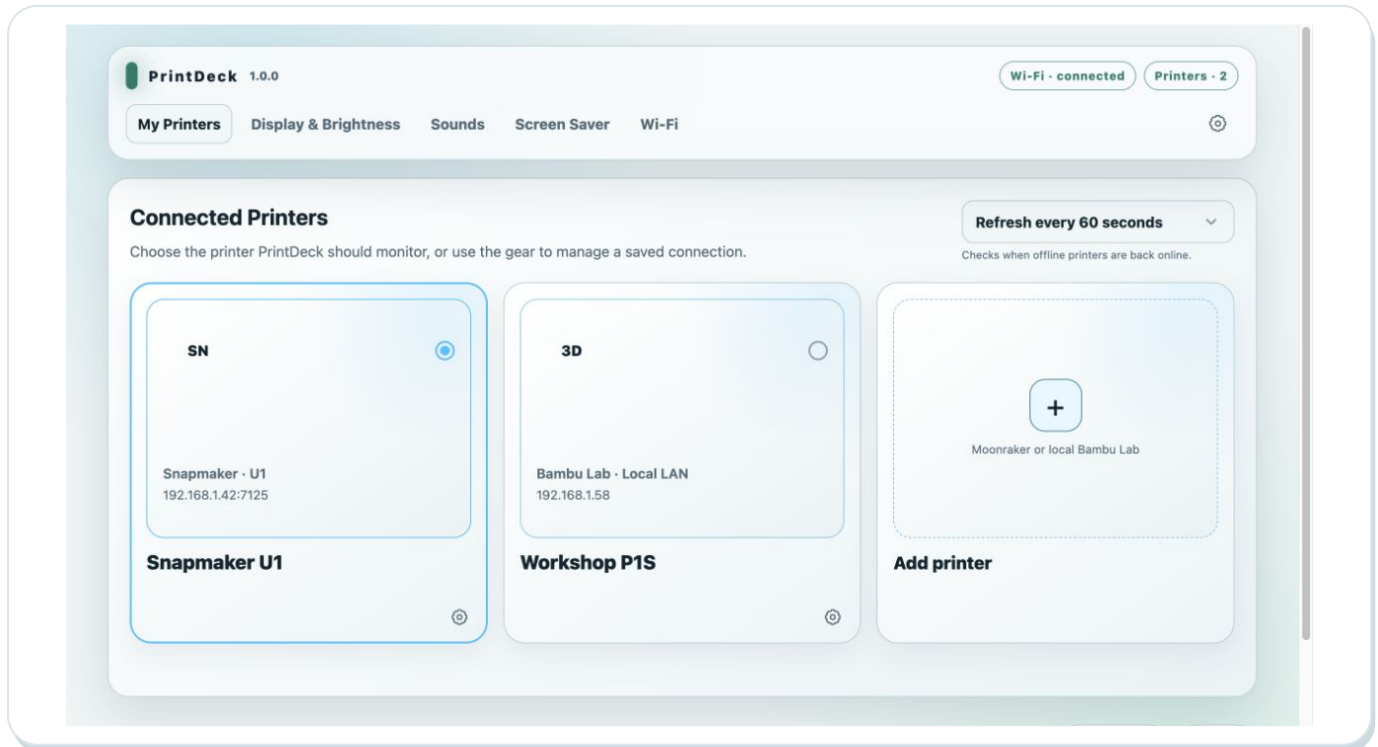
- | | | | |
|----------|--|-----------|---|
| 1 | MY PRINTERS
Your starting point for saved printers. Check availability at a glance and open a ready printer with one tap. | 7 | DIGITAL CLOCK
A clean full-screen clock for the desk, with the current day and date always visible. |
| 2 | PRINTER STATUS
The main live dashboard. Follow print progress, temperatures, remaining time and the current printer state. | 8 | ANALOG CLOCK
A calm analog time view that turns PrintDeck into a useful ambient desktop display. |
| 3 | AMS LITE
A clear overview of loaded materials and feeder positions whenever a compatible Bambu system is available. | 9 | WEB CONFIG
Open PrintDeck settings from a phone or computer using the shown local address or QR code. |
| 4 | LOCAL CAMERA
A local live view from the printer camera for a quick visual check without leaving PrintDeck. | 10 | NOZZLES
Monitor the active tool and available nozzles, including current and target temperatures. |
| 5 | PRINTER LIGHT
See and change the printer's chamber or work light from a focused control screen. | 11 | COMPACT DETAILS
A dense but readable print summary with key timing, layer and temperature information in one place. |
| 6 | SYSTEM DETAILS
Review connectivity, power, memory, temperature and firmware information when checking device health. | 12 | SPEEDS
Track speed, flow, fan, position and heater output while the printer is working. |

LONG-PRESS NAVIGATION

- | | | | |
|-----------|--|-----------|--|
| M1 | QUICK MENU
Long-press any regular screen to open fast access to everyday display and sound settings. | M2 | BRIGHTNESS
Adjust brightness, choose a theme and turn Printer animations on or off; every change is saved automatically. |
| M3 | THEME
Choose the visual theme that best matches your setup. | M4 | AUDIO
Set volume and the sound style used for PrintDeck feedback. |
| M5 | LANGUAGE
Choose the interface language used by the device. | | |

Web Configuration Panel

Configure PrintDeck from a phone, tablet or computer on the same Wi-Fi network. The panel runs locally on the device and does not require a cloud account.



WEB CONFIG

OPEN THE PANEL

Use the address or QR code on screen (9)

Open WEB CONFIG on PrintDeck. Scan its QR code, or enter the displayed local IP address in your browser. Your browser device and PrintDeck must be connected to the same local Wi-Fi.

INSTANT FEEDBACK

Changes appear on PrintDeck

Display, theme, brightness, sound and screen-saver changes are saved to the device and reflected immediately. Keep PrintDeck in view while tuning the interface.

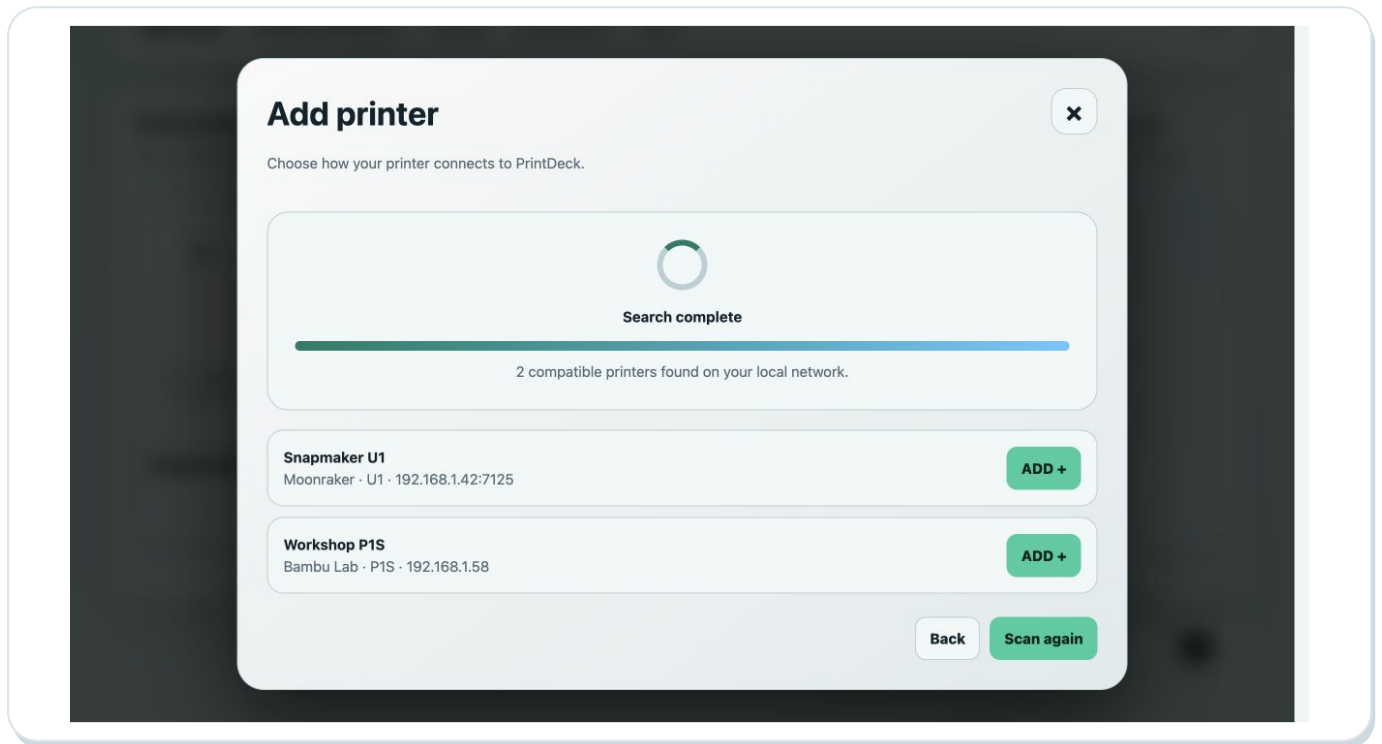
LOCAL BY DESIGN

Your network stays in control

The panel is served by PrintDeck on your LAN. PrintDeck does not contact external services, upload telemetry or send printer data anywhere. Bambu Lab uses local MQTT/TLS and Moonraker uses the local HTTP API, so configuration and monitoring stay inside your network.

Web Config - My Printers: Scanner

The fastest way to add a printer is to let PrintDeck identify compatible devices on your current local network.



FIND MY PRINTER ON NETWORK

How the scanner works

Open My Printers, choose Add printer, then select Find my printer on network. PrintDeck scans only the current local subnet for supported Moonraker HTTP endpoints and Bambu Lab LAN services. The result list shows the detected protocol, model and local address. Running the scan does not add, edit or select a printer.

AFTER A MATCH

The correct form opens for you

Select ADD + beside a result. A Moonraker match opens the Moonraker form and starts printer identity detection. A Bambu Lab match opens the Bambu form with the known local details. Review every field, add any required credentials, give the printer a friendly name and choose Save & connect. Nothing is saved until you confirm the form.

Web Config - Moonraker Printer

Connect Klipper-based printers directly through the Moonraker HTTP API available on your local network.

Add Moonraker printer

Direct connection to Klipper through the Moonraker API.

Printer name

IP address or hostname **Port**

API key (optional)

Printer identity

Reads Moonraker and printer.cfg without changing the printer.

Enter the address to detect manufacturer and model. You can correct both fields.

Manufacturer **Model (optional)**

Required; filled automatically when recognized.

CONNECTION FIELDS

Address the Moonraker service

Printer name is the friendly label shown throughout PrintDeck. Enter the printer IP address or hostname and its Moonraker port; 7125 is the usual default. An API key is optional on a trusted LAN and is needed only when your Moonraker configuration requires one.

PRINTER IDENTITY

Detect, review and connect

Detect printer reads Moonraker information and printer.cfg without changing the printer. When recognized, it suggests the manufacturer and model; both fields remain editable. Confirm the detected values, then choose Save & connect. The new profile appears in My Printers and can be selected as the active printer.

Web Config - Bambu Lab Printer

Bambu Lab printers connect directly over the local MQTT/TLS service. No Bambu cloud account is used.

Add Bambu Lab printer

Local-only MQTT connection; no cloud account is used.

Printer name
My Printer

Before connecting: Enable LAN Only or Developer Mode on the printer, then copy its IP address, serial number and LAN access code.

Bambu Lab IP address or hostname
192.168.1.60

Printer serial number
Copy from printer settings

LAN access code
8-character access code **Show**

No Bambu Lab account or cloud connection is used. MQTT TLS stays inside your local network.

Printer compatibility report
Records available data fields and safe numeric ranges without connection details or print names. Nothing is uploaded. **Check compatibility**

Before connecting: Enable LAN Only or Developer Mode on the printer, then copy its IP address, serial number and LAN access code.

Bambu Lab IP address or hostname
192.168.1.60

Printer serial number
Copy from printer settings

LAN access code
8-character access code **Show**

No Bambu Lab account or cloud connection is used. MQTT TLS stays inside your local network.

Printer compatibility report
Records available data fields and safe numeric ranges without connection details or print names. Nothing is uploaded. **Check compatibility**

Back **Save & connect**

LOCAL LAN CONNECTION

Collect three values from the printer

Enable LAN Only or Developer Mode in the printer settings. Enter the printer IP address or hostname, its serial number and the LAN access code. The access code is stored on PrintDeck for the local encrypted connection and is never sent to PrintDeck servers because no such external service is used. Add a friendly printer name, then choose Save & connect.

OPTIONAL COMPATIBILITY REPORT

Help PrintDeck support more printers

Check compatibility analyzes the fields exposed by the printer and how their values are formatted. PrintDeck already performs advanced local communication analysis, but model and firmware differences can introduce new fields or safe numeric ranges. The report excludes connection details, access codes and print names. It stays on your device: nothing is uploaded or sent automatically. Download the report yourself and email it to us only if you choose to share it.

Send the downloaded report to kitek@xhtml.pl

Web Config - Display & Brightness

Shape the complete PrintDeck interface, including its playful printer reactions, and see each choice reflected on the device immediately.

THEMES - COMPLETE SECTION

Choose a Theme

Each theme transforms the complete PrintDeck interface.

Signal
Pure black, electric green and precise cyan accents.

Cobalt
Layered midnight blue with clear electric highlights.

Solstice
Warm coral and amber over deep aubergine.

Glacier
A bright, airy palette with cool cyan details.

Aurora
Magenta and cyan balanced over rich violet.

Grove
Natural emerald and lime over deep evergreen.

Graphite
A restrained monochrome palette with crisp contrast.

Garnet
Refined crimson and rose over dark burgundy.

Midnight Halo
True AMOLED black with electric-blue halos and layered midnight surfaces.

Red Dragon
Near-black surfaces, razor-red framing and a deep crimson glow.

Retro Terminal
Amber CRT readouts, phosphor green signals and strict terminal geometry.

CUSTOM — Your Colors
Build a palette around your own colors.

THEMES

Choose a visual system

Theme cards preview printer data and status colours before you choose one. Custom lets you edit and save the complete palette.

SCREEN SETTINGS

Brightness & reactions

Set everyday brightness and automatic or fixed orientation. Printer animations can be enabled here and are explained on the next page.



SCREEN SETTINGS - BRIGHTNESS, ORIENTATION & ANIMATIONS

Screen Settings

Set everyday brightness and choose automatic or fixed orientation.

Screen brightness

61%

Screen orientation

Rotate automatically

Printer animations

Show playful, theme-matched reactions on the main printer status page.

On

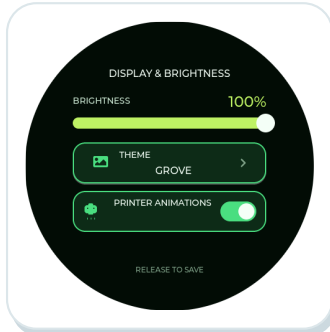
© 2026 PrintDeck - [GitHub repository](#)

English

Printer Animations

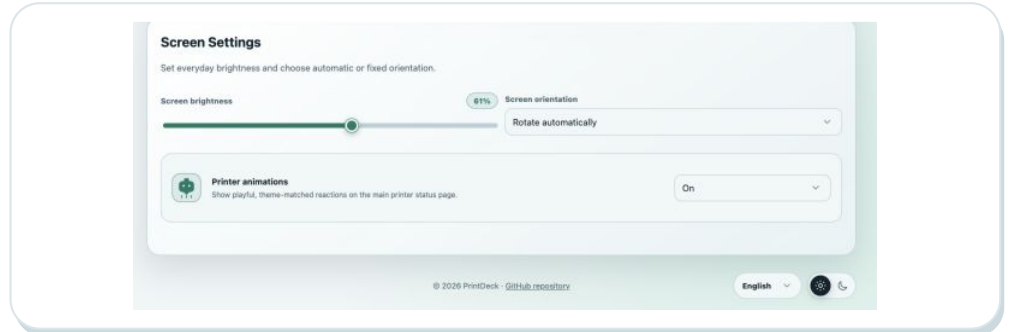


Printer animations replace the center of the main Printer Status page with a theme-matched reaction that follows the printer's current activity.



ON PRINTDECK

Long-press a regular screen, open Display & Brightness and use Printer animations.



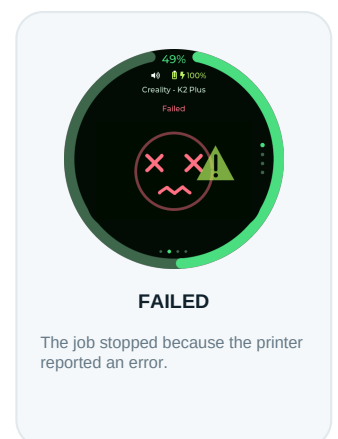
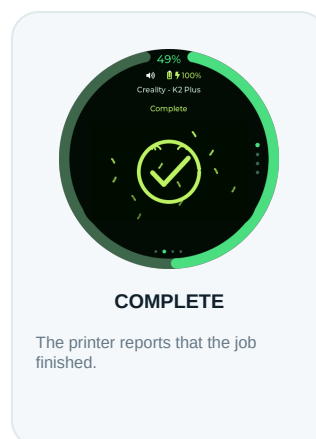
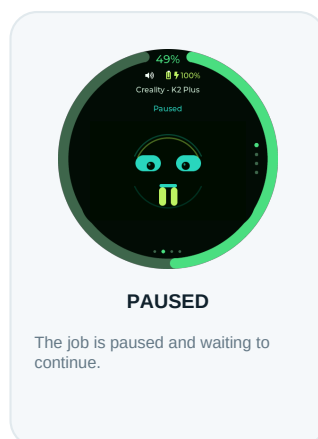
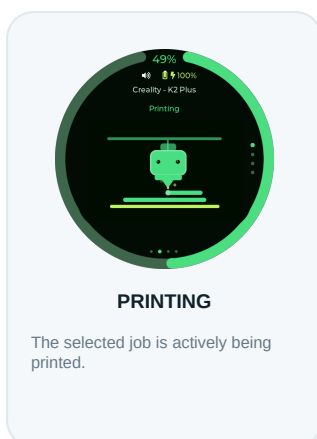
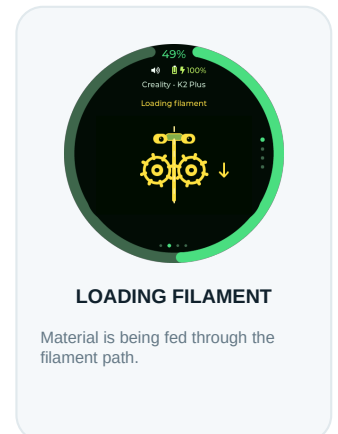
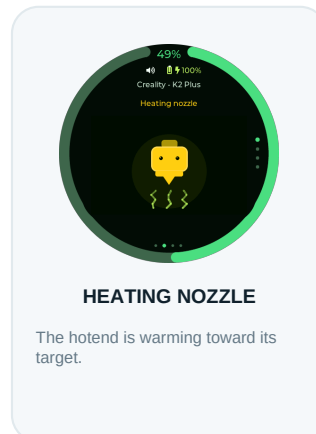
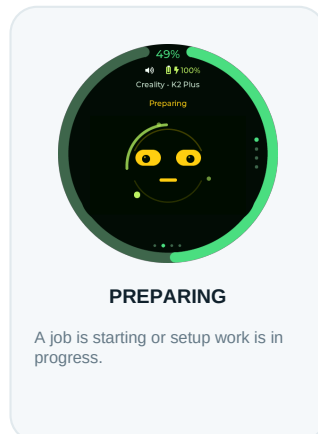
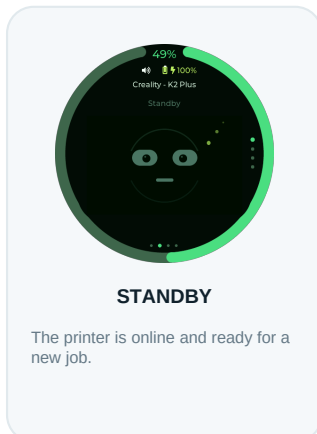
IN WEB CONFIG

Open Display & Brightness, then choose On or Off beside the printer-animation icon. Both controls save immediately; on-device changes play the confirmation sound when audio is enabled and close the menu.



WHAT EACH REACTION MEANS

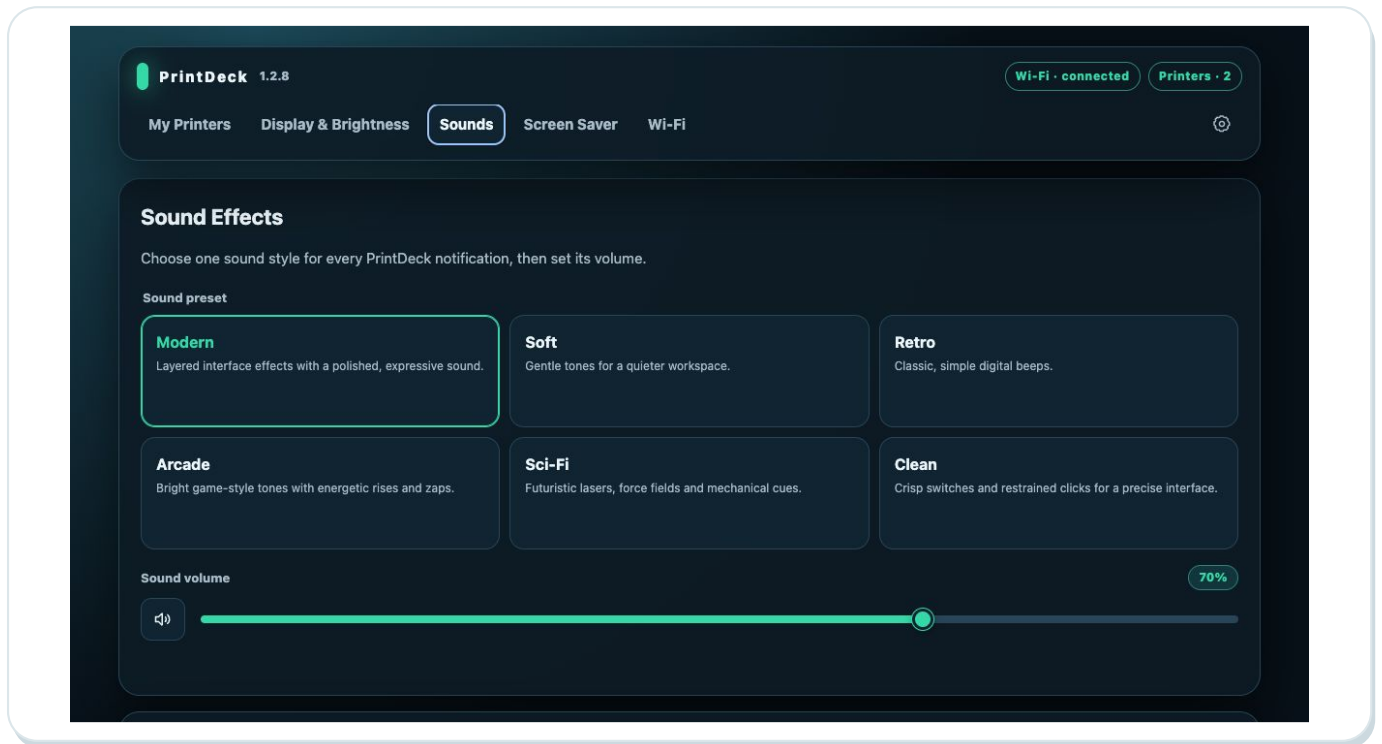
Captured from a physical round PrintDeck



Related reactions also cover bed heating, homing, bed leveling, nozzle cleaning, calibration, filament change / unload / purge, cancellation and unavailable status.

Web Config - Sounds

Choose how PrintDeck confirms actions and announces important printer events in your workspace.



SOUND PRESET

Six distinct sound sets

Choose Modern, Soft, Retro, Arcade, Sci-Fi or Clean. The selected character applies consistently across the interface.

VOLUME & MUTE

Match the room

Set the master volume or mute sound completely. Individual notification events can also be muted without disabling all feedback.

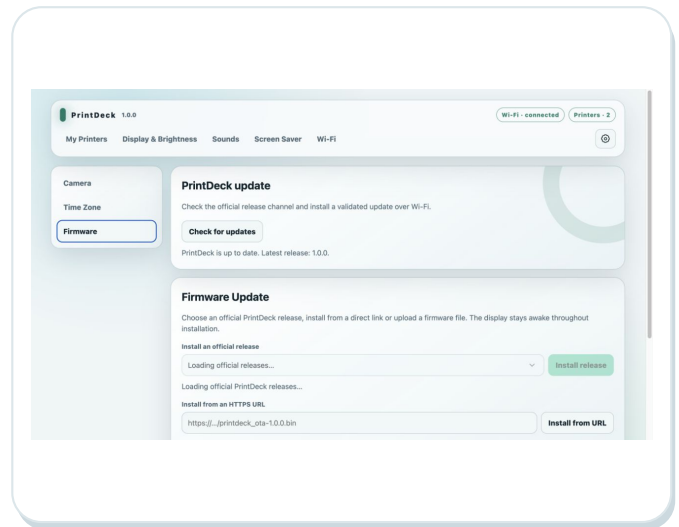
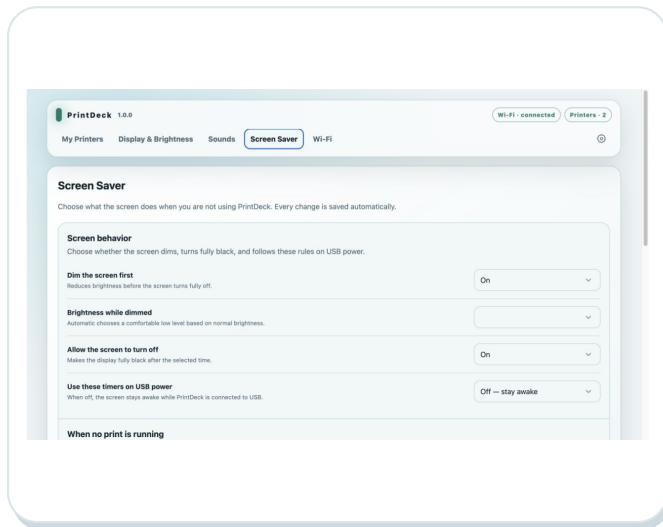
TEST SOUND

Preview before you finish

Use Test sound beside an event to hear the selected preset and volume. Testing plays a preview only and does not change saved event settings.

Web Config - Screen Saver, Wi-Fi & Device

Use the remaining tabs to manage idle behaviour, local connectivity, camera preferences, time zone and firmware.



SCREEN SAVER

Dim or switch off when idle

Set separate idle and active-print timers, choose dim brightness and decide whether orientation changes should wake the display.

WI-FI

Stay on the printer network

Connect PrintDeck to the same local Wi-Fi as your printers. Re-scan visible networks or enter a hidden SSID manually.

CAMERA & TIME ZONE

Tune live views and local time

Choose the camera refresh mode and snapshot rate, then set the time zone used by clocks and time-based information.

FIRMWARE

Install validated updates

Check the official release channel, install the selected update and keep PrintDeck powered during validation and restart. Saved settings are preserved.

Support

Whether you are checking a new printer, building PrintDeck yourself or looking for a finished device, support starts with a direct conversation.

PRINTER COMPATIBILITY CHECK

DOWNLOAD THE REPORT

Check locally, then share it yourself

In Web Config open My Printers, choose Add printer, select Bambu Lab and fill in the local connection details. Choose Check compatibility, review the result and download the report. PrintDeck never uploads or sends it automatically. Email the downloaded file to us only when you decide to share it.

LAN-ONLY PRIVACY

Printer credentials and compatibility data remain on PrintDeck and your local network. The report excludes access codes and other connection secrets; you control if and when it leaves your LAN.

READY-TO-USE DEVICE

Prefer a finished PrintDeck?

Contact us for a ready-to-use device. We can discuss the available enclosure designs, finish and the practical details needed for a complete unit.

DIY SET

Build the enclosure yourself

If you want to print or design the case but need the electronics and guidance, ask about a DIY set with the parts, connection instructions and essential dimensions.

QUESTIONS & COLLABORATION

Tell us what you want to build

For compatibility reports, devices, DIY sets, general questions or collaboration, write to kitek@xhtml.pl. Include your printer model and the kind of help you need so we can respond with the right next step.

kitek@xhtml.pl

PrintDeck

PRINT SMARTER. STAY PRESENT.

A local-first printer companion for the displays you can keep exactly where you need them.



START HERE

Manual, installer and case designs

Scan to open the PrintDeck website, then choose the path that matches your device and build.

<https://printdeck.xyz/>

<https://github.com/kitekkitek/PrintDeck>

kitek@xhtml.pl



AMOLED + LCD

LOCAL BY DESIGN