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Multi-panel Bulletin Board

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Contents

Bulletin board and single-panel settings **2**
- Bulletin board home 2
- Single-panel page 3
- When a panel is unplugged 5

Media library **6**
- Uploading 6
- Publish and unpublish times 6
- Deleting a document 7

Installation and wiring **8**
- Wiring 8
- Identify 9
- System screens 9
- Exporting and importing the wiring 10
- Panel firmware 10

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Bulletin board and single-panel settings

> Navigation: **Bulletin board**

The multi-panel bulletin board manages several panels as one bulletin board: each panel has its own content playlist and rotation, and can switch between different playlists by time of day.

Applicable models

Only the multi-panel model with three 31.5" panels has the "Bulletin board". On this model the menu shows "Bulletin board", "Media library" and "Installation" instead of "Images", "Image sets" and "Schedules"; the system settings (network, update, logs and so on) work as usual. Other models do not have these pages.

Bulletin board home

The home page lists all the panels, each with a thumbnail of its current image and its state.

Item	Description
"N/N panels OK"	The number of panels that are connected and working
Panel state	"Idle", "Refreshing", "Failed" or "Missing" (not connected, see When a panel is unplugged)
Identify	Makes every panel show its number in large digits, to compare with the nameplate on the back
Show QR code	The system screen panel shows the startup screen (Wi-Fi QR code and admin page address) and returns to its content after 60 seconds
Clear all screens	Clears all panels to white together, see Clearing the screen
Notice at the top	Shown when a panel is missing or plugged into a port that is not registered yet; press "Go to installation" to deal with it, see Installation

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Press a panel's thumbnail to open its settings page. Each panel card also has "Identify this panel", which makes only that panel show its number.

Single-panel page

After you open a panel from the home page, the page is titled "Panel N", and "Back to bulletin board" at the top left returns to the home page.

Current image and manual selection

- "Current image" shows what the panel is showing now and where it is in the playlist (for example "1 / 3").
- "Previous" and "Next" move between sheets. "Sheets (tap to show)" lists every sheet; tapping one shows it on the panel (after asking "Show sheet N on the panel?").
- After you pick a sheet manually, the panel pauses automatic rotation and shows "Paused manually, rotation resumes at (time)". For how long, see Pause after manual selection.

Content rotation

"Content rotation" sets how often the playlist moves to the next sheet: "Off", or "Every 1 / 5 / 10 / 15 / 30 / 60 min". Each playlist has its own interval (see the next section). "Content rotation updated" is shown after you change it.

Playlists

Each panel can have several playlists, for example "Morning" and "Evening".

Action	Description
Default playlist	Every panel has one. It plays when no time slot is in effect
Add playlist	Under "Playlists", press "Add playlist" and give it a name such as "Morning" or "Evening"
Rename, delete	Deleting asks "Delete 'name' and the time slots that use it? The documents themselves are kept."

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Action	Description
Now playing	Marks the playlist that is playing now
Playlist to edit	Chooses which playlist "Content", "Layout" and "Content rotation" below edit

Layout and interval are set per playlist, so different playlists can use different layouts and intervals.

Content

In "Content" you edit the playlist you chose:

1. Press **Add pages** and pick pages of documents from the media library (you can "Select all", "Select none", or "Show pages" to tick them one by one).
2. Use "Move up" and "Move down" to change the order, and "Remove" to take an item out of the playlist (it asks first; the document itself is not deleted).
3. An item's "Settings" adjust how it is shown: rotation (0 / 90 / 180 / 270 degrees), pages per sheet, gap (Default / Seamless / Custom) and the pages to show.
4. With "Continue after the previous document" on, a document is placed on the previous document's last sheet if there is room; with it off it starts a "New sheet".

The items in the playlist are laid out by the "Layout" into the sheets that are shown on the panel one by one. If the playlist has no published documents, the panel is cleared to white.

Time slots

"Time slots" make the panel switch to a chosen playlist at a set time and keep it until the next slot, for example "Morning" at 8:00 and "Evening" at 17:00.

1. Under "Time slots" press "Set up", then "Add time slot".
2. "When" is set the same way as a schedule: choose "Fixed interval" or "Specific time". See Image change frequency in detail.
3. "Switch to playlist" chooses the playlist, and "Enabled" lets you switch a slot off for the time being.
4. After saving, "Time slots saved" is shown and the page shows "Next (time)".

- Until a time slot has fired, the default playlist plays; with no time slots at all, the default playlist plays all the time.

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- A pause from manual selection ends at once when a time slot switches, and the new slot's playlist takes over.

Pause after manual selection

"Pause after manual selection" sets how long automatic rotation stays paused after you pick a sheet manually or clear the screen: 5, 10, 15, 30, 60 or 120 minutes. There is no automatic rotation during the pause, and afterwards it continues from the sheet you chose. When the device restarts, the pause is cancelled and every panel continues on its schedule from the sheet it is showing.

Clearing the screen

- One panel: press "Clear screen". The panel is cleared to white and its rotation pauses ("Screen cleared, resumes at (time)"). The pause length is as in the previous section.
- All panels: press "Clear all screens" on the home page. Every panel is cleared to white and pauses its rotation.
- The panel stays white during the pause; afterwards it continues from the sheet shown before. A time slot switching or a manual selection during the pause ends the white screen.

When a panel is unplugged

- The panel is marked "Missing", and the notice at the top of the home page reads "N panel(s) missing (x/y working)". If a whole group is missing, check the HUB or its upstream cable; if a single panel is missing, check that panel's CH347, cable or TCON.
- The panel's content, layout and schedule are **all kept**. Once it is plugged back in, it automatically shows the sheet that should be showing at the current time.
- If a different new panel was put in, or the panel was moved to another port, register it or move its settings on the Installation page.

Related chapters: Media library, Installation, Image change frequency in detail

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Media library

> Navigation: **Media library**

The media library is the document store shared by the whole device, holding PDFs and images. The playlist of every panel picks its pages from here.

Applicable models

Only the multi-panel model with three 31.5" panels has the "Media library", see Bulletin board and single-panel settings.

Uploading

1. Drag a file onto the upload area, or click the area and choose a file (PDF, PNG and JPEG are supported).
2. When the upload finishes, "Uploaded (name), converting" is shown. Conversion runs in the background on the device and goes through "Queued" and "Converting"; a PDF is converted into one image per page, and the list shows "N pages".
3. If the upload fails, "Upload failed: (name)" is shown. A document that cannot be converted shows "Conversion failed" and does not affect other documents.

- An image is one page, and images can be mixed with PDFs in the same playlist.
- You can leave the page after uploading; conversion carries on.
- Files stay on this device and are never sent elsewhere.
- The original file is kept, so it is converted again when you change the layout or rotation.

Publish and unpublish times

Each document can have a "Publish at" and an "Unpublish at" time. It goes up and comes down by itself at those times, with nothing to do by hand.

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Field	Description
Publish at	Empty = published now
Unpublish at	Empty = never. It must be later than the publish time, otherwise "Unpublish time must be after publish time" is shown

After saving, "Publish window updated" is shown. The document's state is one of:

State	Meaning
Published	It currently appears in the playlists that include it
Scheduled	The publish time has not come yet
Unpublished	The unpublish time has passed and it is taken out of the playlists

- The times are set on the **document**: every playlist that includes it publishes and unpublishes it together.
- **An unpublished document is not deleted**; it just stops playing. Change or clear its unpublish time to publish it again.
- When none of the documents in a playlist is published, the panel is cleared to white.

Deleting a document

Press "Delete" on a document and confirm "Delete this file?". **Its pages are also removed from every panel's playlist.** If you only want it to stop playing for now, unpublish it instead.

Related chapters: Bulletin board and single-panel settings, Export / import settings, Factory reset

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Installation and wiring

> Navigation: **Installation**

The "Installation" page is for checking that every panel is connected, that the numbers match the nameplates on the back of the panels, and for dealing with replaced panels and moved ports. The page follows the steps ① Wiring, ② Identify, ③ System screens, ④ Export / import, and finally the panel firmware.

Applicable models

Only the multi-panel model with three 31.5" panels has the "Installation" page, see Bulletin board and single-panel settings.

Wait a moment after sending

After a wiring operation (register, swap, move) the screen shows "Sent. The panel service is restarting; takes effect in about 10 seconds". Wait about 10 seconds before looking at the result.

Wiring

"① Wiring" lists the state of every port, for example "3/3 panels connected".

Situation	What is shown	What to do
Normal	"No. N" and the port name	Nothing
One panel not connected	"Missing (port name): check this panel's CH347, cable or TCON"	Check that panel's cable and TCON
A whole group not connected	"Whole group missing: check the USB hub or its upstream cable"	Check the HUB and its upstream cable
Plugged into an unregistered port	"An unregistered panel is plugged into (port name)"	The panel is not refreshed; press "Register"

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Register

Press "Register" to register the port as a new panel number. **Use the number on the panel's nameplate** and fill in the "Port name". A number already in use shows "No. N already exists". Once registered, the panel can be given content.

Moving settings

When a panel is replaced or plugged into another port, the old number is "Missing" and the new one appears. The Installation page then offers to move the settings of No. N to No. M. Press "Move":

- The content, layout and rotation of the old number move to the new number together, and "Moved" is shown.
- Tick "Stop using the port of No. N" to remove the old number from the wiring, so the healthy count no longer misses a panel. Do not tick it if the old port will be used again.

Identify

In "② Identify" press "Identify": every panel shows its number in large digits, to compare with the nameplate on the back.

Swap

If the number on screen does not match the nameplate (two panels were plugged in the wrong way round):

1. Press "Swap" to open "Swap two panels".
2. Choose the "First panel" and "Second panel", the two whose nameplates do not match (they must be different panels).
3. After sending, the content follows the numbers; nothing needs to be set up again.

System screens

In "③ System screens" choose the "System screen panel": system screens such as the Wi-Fi QR code and network settings appear on this panel. Pick one that is low, close and easy to scan.

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After the device restarts, the system screen panel first shows the startup screen (Wi-Fi QR code and admin page address) and switches back to its content after about 60 seconds. Panels that have no content yet keep showing the startup screen, with their own number (No. 1, No. 2…) on the left, so you can match them during installation.

Exporting and importing the wiring

"④ Export / import" carries the installation settings to the next site with the same model.

- **Export**: exports the wiring, the system screen panel and each panel's layout.
- **Import**: applies installation settings exported from a machine of the same model. Before importing it asks "Wiring, system screen panel and layouts will be replaced by the file's settings; content is not affected. Import now?". If the file is not an installation settings file, "This is not an installation settings file" is shown.

This file holds only installation settings, not content. To back up content and playlists use Export / import settings.

Panel firmware

"Update firmware" under "Panel firmware" updates the firmware of several panels, but **one panel at a time**:

1. Upload one `.bin` firmware file.
2. Under "Panels to update" tick the panels (each shows its current firmware version).
3. Press "Start update". Each panel goes through "Waiting" and "Flashing firmware", then shows "Done: old version → new version" or "Failed: reason".

> **Do not unplug or power off during the update**
>
> Panels are flashed one at a time, about 20 seconds each. A panel does not advance while it is being flashed. Do not unplug or power off.

Related chapters: Bulletin board and single-panel settings, Media library, TCON firmware update

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