










DS60P User Manual



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1. Startup



These screens will appear when the system starts up.



Splash screen

After connecting the system to power, the MOKA / BrightSign splash screen will be displayed.

If the system has already been set up and a presentation has been applied, the presentation will begin to play automatically.



Provisioning

If the system has not been set up, you will be guided through the BrightSign setup process, also known as provisioning.

A major part of the provisioning process is establishing the Publishing Mode which defines how content will be published / delivered to the system.

2. Signal Source



Internal



HDMI

Signal Sources

- **Internal**

This is the default signal from the internal BrightSign components. If a presentation has been applied, the presentation will automatically start playing when the system is powered on.

- **HDMI**

When an active HDMI device is connected, the system will automatically switch to the signal from this device.

Switching Signal Sources

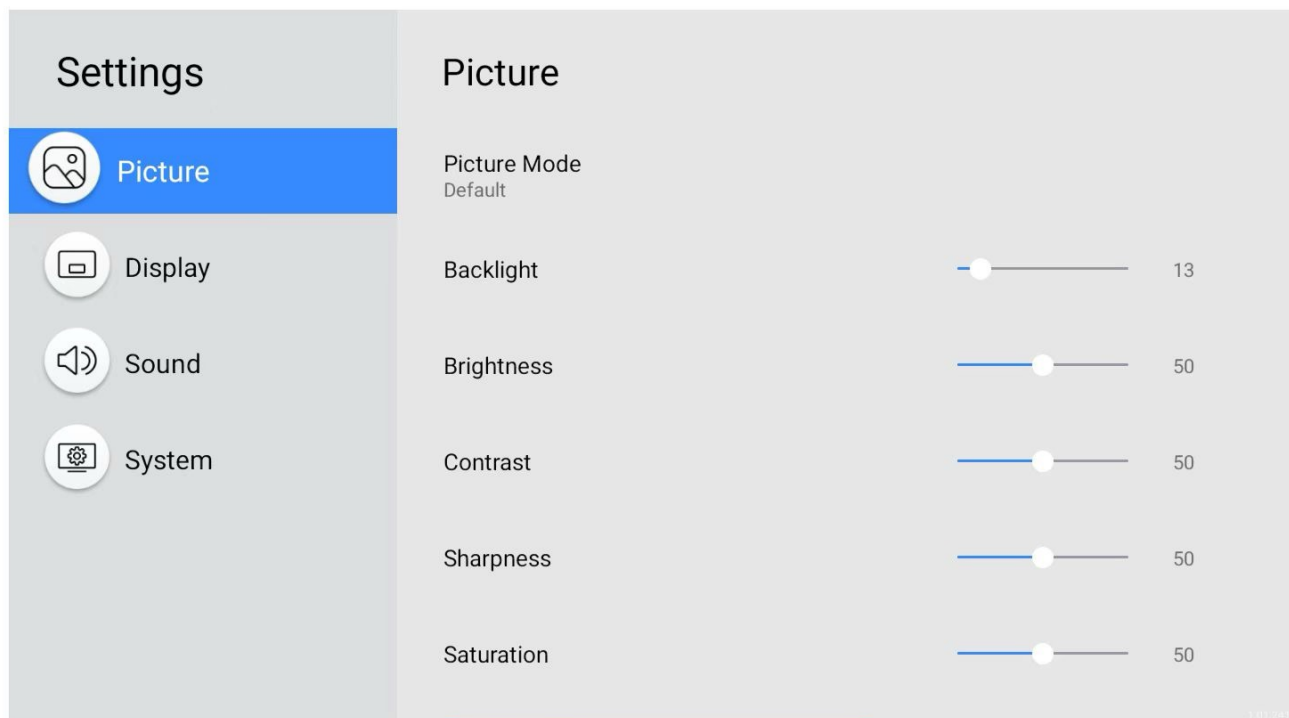
- **Remote control**


Use the “Source” button to select the desired signal source.

- **Automatic switching:**

When an active HDMI device is connected, the system will automatically switch to the signal from that device. When the HDMI device is removed, the system will switch back to the internal BrightSign signal.

3. Settings



Use the "Settings" button  on the remote control to configure the various settings.



3. Settings - Picture



Picture Mode

- Standard
- Vivid
- Soft
- Movie
- Monitor
- Game
- User

Backlight

- 0 - 100

Brightness

- 0 - 100

Contrast

- 0 – 100

Sharpness

- 0 – 100

Saturation

- 0 – 100

Color Tone

- Standard
- Warm
- Cool

Color Control

- R: 0 - 255
- G: 0 - 255
- B: 0 - 255

Reset Picture

Resets all Picture settings to the default settings.

3. Settings - Screen Display



Aspect Ratio

- Auto
- 16:9
- 4:3

Language

- English
- Deutsch
- Italiano
- Español
- 中文（简体）
- 中文（繁体）
- العربية
- 한국어
- Français
- Português

HDMI Mode

(only available on 4K displays)

- HDMI 1.4
- HDMI 2.0



3. Settings - Sound



Sound Mode

- Standard
- Music
- News
- Movie
- Game
- User

Balance

- Left / Right
- Reset (restores to default)

Equalizer

Only available when the Sound Mode is set to User.

Reset Sound

Resets all Sound settings to the default settings.



3. Settings – System

About

- Display Firmware Version
- MAC Address
- WiFi MAC Address
- BrightSign Serial No.
- BrightSignOS Version
- Hardware Revision

Power

Auto Off

- Off, 15 min, 30 min, 45 min, 60 min

When the display is inactive (no source signal is detected), the display and network connection will automatically turn off after the indicated amount of time. If the Always Connected setting is enabled, the display will turn off after the indicated amount of time, but the network connection will remain active.

Auto On

- Enabled / Disabled

When enabled, the display and network connection will automatically turn on when the device is plugged in. When disabled, the display and network connection will turn on when the device is plugged in, and the Power button is pressed.

HDMI Wake

- Enabled / Disabled

When enabled, connecting an active HDMI device will automatically turn the system on. When disabled, connecting an active HDMI device will have no effect if the system or display is off.

Always Connected

- Enabled / Disabled

Enabling this is recommended for digital signage use.

When enabled, pressing the Power button turns the display on and off. The network connection remains active, allowing software updates, content downloads, and remote management. When disabled, pressing the Power button turns the display and network connection on and off.

This setting uses more power when enabled than when disabled.

3. Settings – System (cont.)

Always On

- Enabled / Disabled

Enabling this is recommended for digital signage use.

When enabled, pressing the Power button will have no effect. The display will remain powered on, allowing content display and downloads, software updates, and remote management.

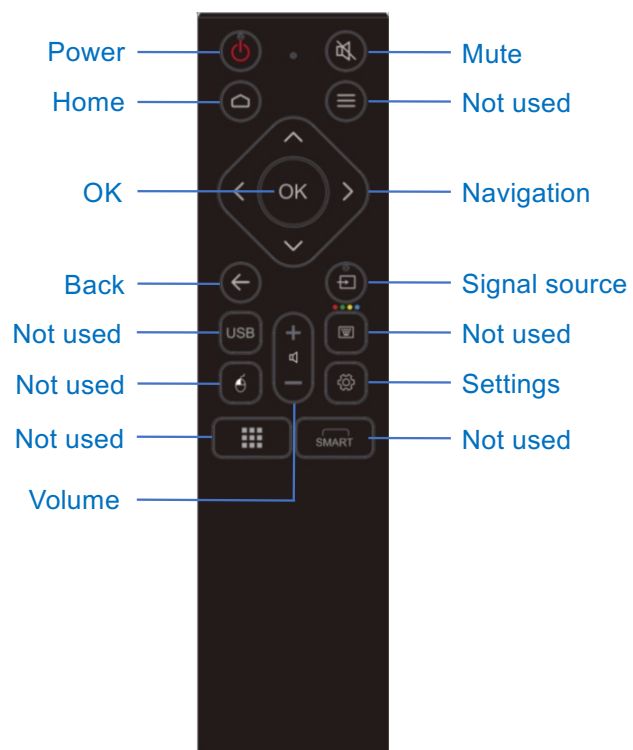
When disabled, pressing the Power button turns the display and network connection on and off.

This setting uses more power when enabled than when disabled.

Reset

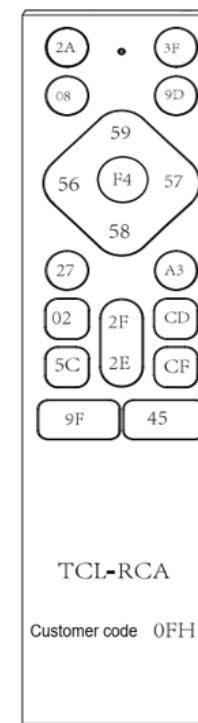
Resets all System settings to the default settings.

4. Remote Control



Buttons

- **Power:** Turn the system on or off
- **Home:** Return to the main menu
- **OK:** Confirm the selection
- **Back:** Return to the previous screen
- **Volume:**
 - "+" to increase volume
 - "-" to decrease volume
- **Mute:** Press to mute / unmute
- **Navigation:** Up, down, left, right
- **Signal Source:** Change between internal and external signal source
- **Settings:** Access settings



Key Codes

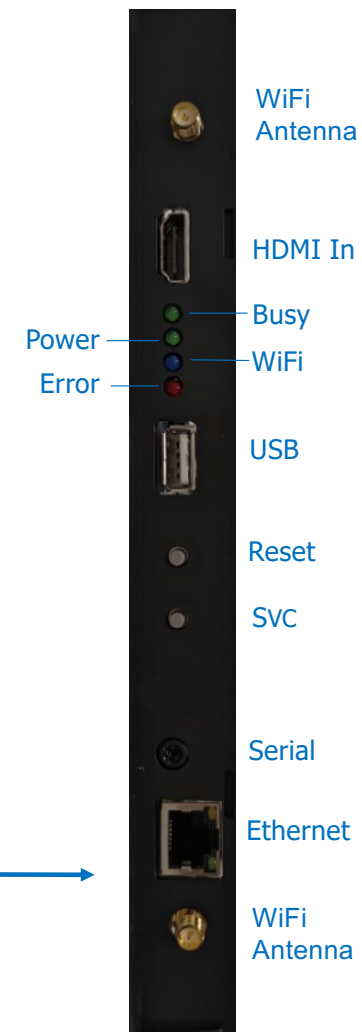
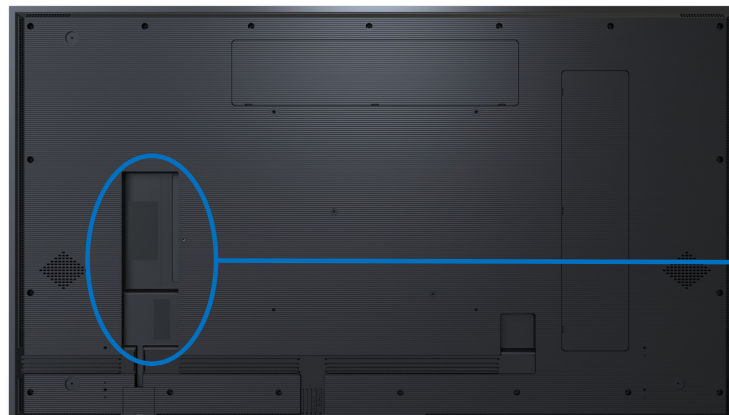
5. IR Receiver & Interfaces



IR Receiver
(center of the screen)



Interfaces



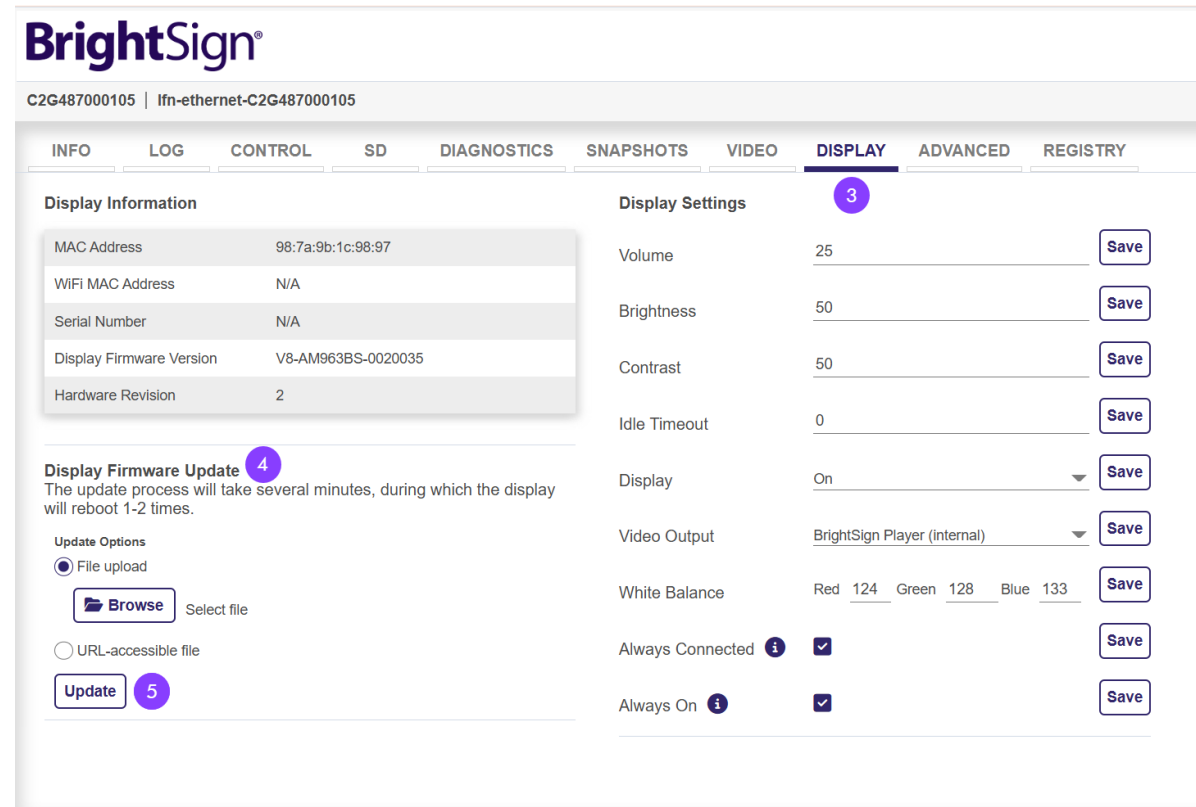
6. Display Firmware Update (LDWS)



The system's Local Diagnostic Web Server (LDWS) can be used to update the display firmware over the local network.

1. Determine the system's IP address by booting up the system without a storage device. The IP address will be displayed on the screen.
2. Access the LDWS by entering the IP address into a web browser's address bar.
3. While in the LDWS, click the DISPLAY tab.
4. Under Display Firmware Update, there are two options:
 - File upload
 - Upload a file from your computer.
 - URL
 - Enter the address of the URL-accessible file.
5. Click Update.

The update process will take several minutes, during which the display will reboot 1-2 times.



The screenshot shows the BrightSign web interface. At the top, the header includes the BrightSign logo and the device ID 'C2G487000105 | lfn-ethernet-C2G487000105'. Below the header is a navigation bar with tabs: INFO, LOG, CONTROL, SD, DIAGNOSTICS, SNAPSHOTS, VIDEO, DISPLAY (highlighted with a purple circle 3), ADVANCED, and REGISTRY. The main content area is divided into two columns. The left column, titled 'Display Information', contains a table with the following data: MAC Address (98:7a:9b:1c:98:97), WIFI MAC Address (N/A), Serial Number (N/A), Display Firmware Version (V8-AM963BS-0020035), and Hardware Revision (2). Below this table is the 'Display Firmware Update' section, marked with a purple circle 4. It includes a warning: 'The update process will take several minutes, during which the display will reboot 1-2 times.' Under 'Update Options', the 'File upload' radio button is selected. There is a 'Browse' button with a folder icon and the text 'Select file'. Below that, the 'URL-accessible file' radio button is unselected. At the bottom of this section is an 'Update' button with a purple circle 5. The right column, titled 'Display Settings', contains a list of settings with input fields and 'Save' buttons. The settings are: Volume (25), Brightness (50), Contrast (50), Idle Timeout (0), Display (On), Video Output (BrightSign Player (internal)), White Balance (Red 124, Green 128, Blue 133), Always Connected (checked), and Always On (checked). Each setting has a corresponding 'Save' button.

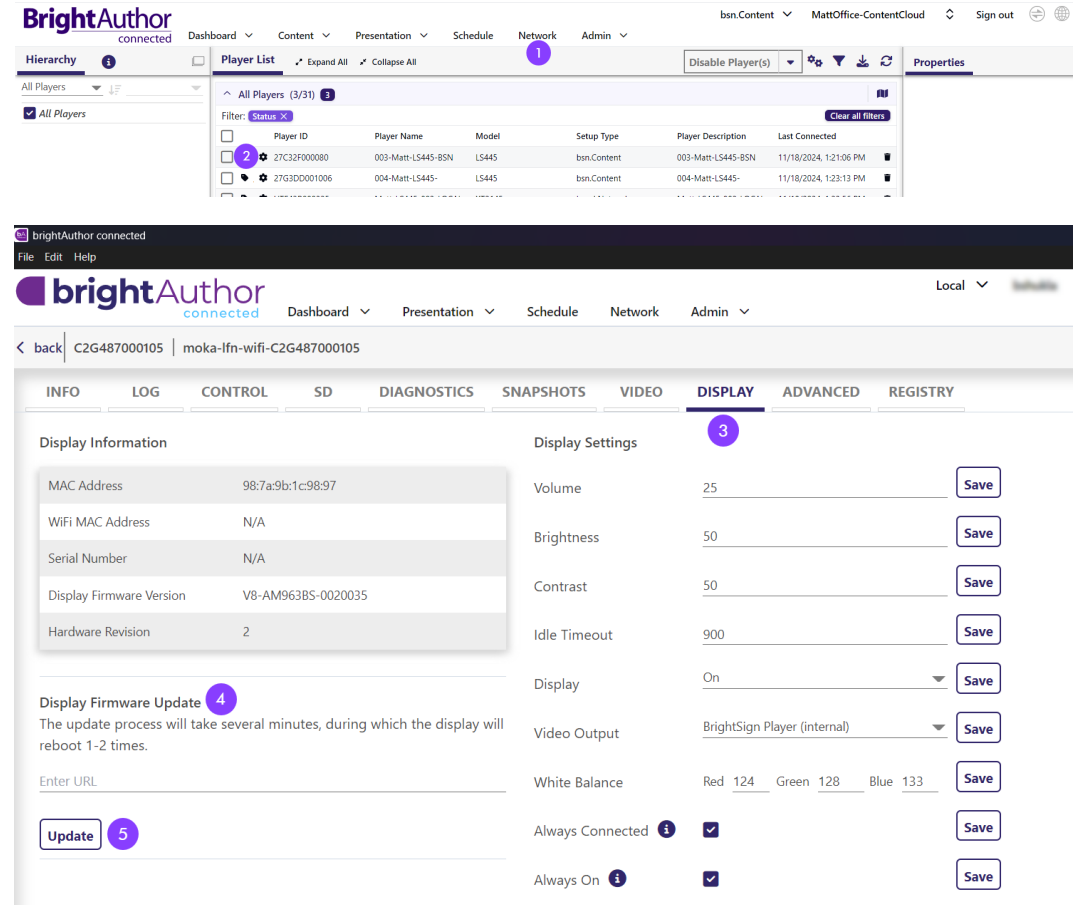
6. Display Firmware Update (RDWS)



The system's Remote Diagnostic Web Server (RDWS) can be used to update the display firmware over the internet. The system must be registered with BSN.Cloud.

1. From BrightAuthor:connected, click the Network tab and find the system in the list.
2. Click the "gear" icon to access the RDWS.
3. While in the RDWS, click the DISPLAY tab.
4. Under Display Firmware Update, enter the address of the URL-accessible file.
5. Click Update.

The update process will take several minutes, during which the display will reboot 1-2 times.



The screenshot shows the BrightAuthor:connected interface. The top navigation bar includes tabs for Dashboard, Content, Presentation, Schedule, Network, and Admin. The Network tab is selected, showing a list of players. A gear icon is clicked to access the RDWS. The RDWS interface shows the DISPLAY tab selected. The Display Firmware Update section is highlighted, showing the update process and the URL input field. The Update button is also highlighted.

Player ID	Player Name	Model	Setup Type	Player Description	Last Connected
27C32F000080	003-Matt-L5445-BSN	L5445	bsn.Content	003-Matt-L5445-BSN	11/18/2024, 1:21:06 PM
27G3D0001006	004-Matt-L5445-	L5445	bsn.Content	004-Matt-L5445-	11/18/2024, 1:23:13 PM

Display Information

Field	Value
MAC Address	98:7a:9b:1c:98:97
WiFi MAC Address	N/A
Serial Number	N/A
Display Firmware Version	V8-AM963BS-0020035
Hardware Revision	2

Display Firmware Update

The update process will take several minutes, during which the display will reboot 1-2 times.

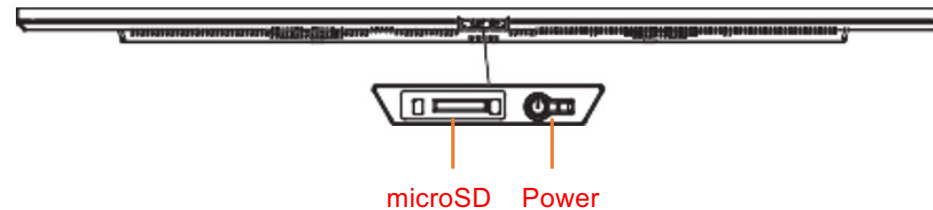
Enter URL

Update

Display Settings

Setting	Value	Action
Volume	25	Save
Brightness	50	Save
Contrast	50	Save
Idle Timeout	900	Save
Display	On	Save
Video Output	BrightSign Player (internal)	Save
White Balance	Red 124 Green 128 Blue 133	Save
Always Connected	<input checked="" type="checkbox"/>	Save
Always On	<input checked="" type="checkbox"/>	Save

7. microSD Card



The system has minimal onboard storage and requires a microSD card (not included) for digital signage operation. A microSD slot is located at the bottom of the display.

Due to the continuous usage digital signage systems experience, BrightSign-qualified microSD cards are recommended. Please visit brightsign.biz/storage for more info.

The background of the slide is a photograph of industrial machinery, likely a robotic welding or assembly station. It features various metal components, cables, and a blue sensor or camera module. The image is slightly blurred and has a blue color overlay.

Together, Stronger!