

# USER MANUAL



eARC JBL Soundbar Demo

With tablet control



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## INTRODUCTORY

Thank you for purchasing the Createq BRIQX eARC Multi Brand Soundbar demo system, the demo system will give you the ability to demonstrate up to 4 JBL soundbars using the latest HDMI eARC technology (Enhanced Audio Return Channel) to ensure you can use the highest quality of audio and video signals on the connected products.

The system will simulate an eARC connection to a television for each of the 4 connected bars, this way they will always be connected with the highest possible quality.

The audio and video source for use on the bars is the BRIQX 4K media player that can send out up to 4K resolution video and HD and Atmos, a television will be connected to the BRIQX eARC demo using a HDMI connection as to have optimal picture quality.

In the case of connected soundbars that don't support eARC the system is backwards compatible and will use an ARC connection instead.

For controlling the system a tablet is provided that offers an interactive interface for controlling all the functions of the demo system.

The tablet can also be used to see the video portion of the content when no television is available on the POS display.

## CONTENTS

Please check if all the following items are present in your demo kit shipment:

- Mountingplate containing the main eARC interface and 4K30 mediaplayer
- 12V/2A Power adapter
- Remote control for 4K30 mediaplayer
- Pre-installed 4pcs HDMI cable 3m labelled BAR1 to BAR4
- Pre-installed 1pc HDMI cable 3m labelled TV HDMI 1 (Optional)
- 10inch tablet with LED edge pre-configured incl. power supply
- Pre-installed USB-A to USB-B cable to connect the tablet to the interface
- Pre-installed USB-A to USB-A Female cable to extend the content port from the mediaplayer

## SETTING UP PRODUCTS FOR USE WITH THE DEMO SET

### BRIQX SHOPMODE

The BRIQX eARC demo system contains some functions as to provide a seamless and ready-for-action user experience, these functions are as follows:

- Default volume settings per soundbar, resets when the demo set goes to idle.
- Power on watchdog, checks if the soundbar is still active if not the system sends the soundbar a power on command.
- Correct input watchdog, checks if the soundbar and television are still on the correct source inputs, if not switches it back to the correct HDMI input.

### SETTINGS TV

- The demo system has been designed to use a Samsung television to show the video content coming from the 4K30 mediaplayer, other brands might work too but are not guaranteed.
- On the TV make sure to enable the Anynet function usually found in the TVs settings under General->External Device Manager->Anynet+ (HDMI CEC).
- Disable any ECO settings in the TV that might switch it off after a set time or adjusts the brightness.
- Disable any screensaver functions present in the TV.



The eARC demo set will use HDMI-CEC to keep the television always on and the input source set to HDMI 1.

Would you like to be able to switch off the TV anyway, for instance at the end of the day it is possible to disable this function in the wifi setup menu of the eARC interface in the Shopmode Settings section.

## SETTINGS SOUNDBARS

To have the JBL soundbars functioning correctly with the demo systems the soundbars need to be in their DEMO mode as in that mode some special functionality is enabled that is required.

### Current line-up

To enable the shopmode in the current JBL soundbar line-up, **BAR 1300MK2, 1000MK2, 800MK2, 500MK2, 300MK2**, please follow these instructions :

1. Press and hold the remote-control ATMOS button for 10s, the top panel LED light will flash twice in Purple color, within 15s then press and hold the remote-control MOMENT button for 10s.
2. Demo Mode Activation Confirmation: Text display shows “REBOOT”, then soundbar will reboot and restart, text display shows “DEMO” to indicate the successful entry of this mode.

### Previous line-up

For soundbars from an earlier generation (BAR2.1MK2 and BAR2.0MK2) these are the instructions :

**BAR 2.1** – This soundbar needs to be updated to the 030 version firmware to function correctly and optimal with the demo system:

1. Download the required firmware here :



2. Download the zip file using the QR code and unpack it on your computer so that you end up with a file with an .v300 extension



3. Put the .v300 file on a USB pendrive and stick it in the USB port at the back of the soundbar.
4. Make sure the soundbar is on and fully booted.
5. Now hold the Power and Vol- buttons for 15 seconds, you will see the update process starting indicated by a message in the display of the soundbar.
6. Let the full update process run, when it's done you will see a UPD OK message in the display and the soundbar will play back a chime sound to indicate the update is done.
7. Reboot the soundbar after and put it back into demo mode.
8. Hold the Power and Vol+ buttons for 15 seconds until the DEMO message appears in the soundbars display.
9. To enable the soundbar in demo mode reboot it by unplugging the power, waiting 10 seconds and plugging the power back in, it is now ready for use with the demo system.

**BAR 2.0** – This soundbar will function with the demo system but volume control is slower.

To put this bar in DEMO mode :

1. Hold the Power and Vol+ buttons for 15 seconds until LED bar on the soundbar shows a blue light flanked by two white lights.
2. To enable the soundbar in demo mode reboot it by unplugging the power, waiting 10 seconds and plugging the power back in, it is now ready for use with the demo system.



## ADJUST SETTINGS DEMO SYSTEM USING WIFI SETUP

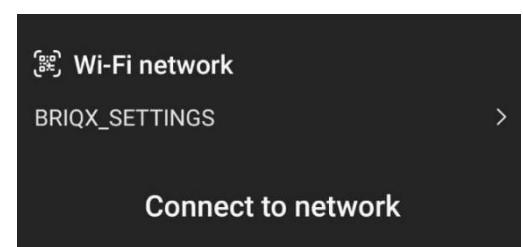
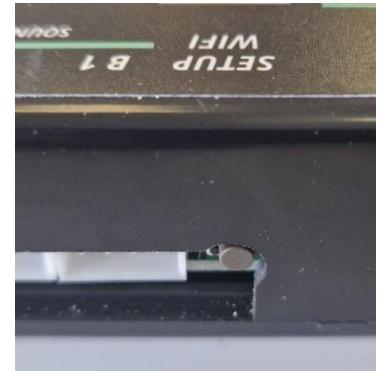
As most functionality in the wifi setup menu is already available in the tablet settings screen please do not chance any of the current settings as this might interfere with other settings.

Listed in this part of the manual are only the settings and functionality that you might need to change.

There are multiple ways to use the eARC demo system and tune the system to your liking.

The settings can be accessed using your smartphone and connecting through wifi to the interface, to enable the wifi setup please follow these instructions:

1. Unplug the DC power connector from the interface.
2. Plug the DC connector back in the interface and within 3 seconds of doing that give the Wifi Setup button one quick press, the blue LED near the DC connector will start blinking rapidly now.
3. Now unlock your smartphone and scan the QR code labeled "Open Wifi", this will show a dialog window on your phone asking to connect to BRIQX\_SETTINGS, select Connect to network.
4. When asked to enable the connection without access to the internet confirm this.



5. Now scan the QR code labelled "Open Settings" and click to confirm you want to open <http://10.10.10.10/settings>

You are now in the Wifi Setup menu, here are the various settings available and their functionality:



1.Wifisetup



2.Settings



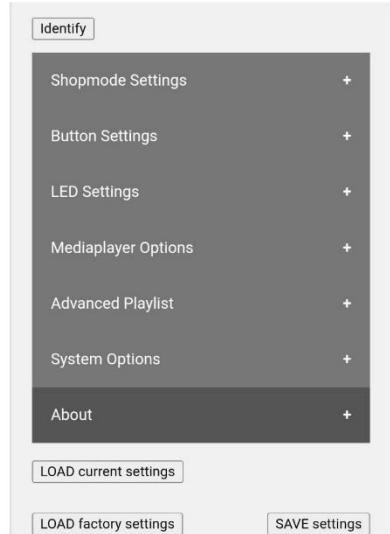
## AVAILABLE SETTINGS

**Identify button** – pressing this button on screen will make the 4 soundbar selection buttons show a quick running light pattern, this to confirm you are connected to the right interface.

**Load Settings button** – pressing this button on screen will load the current settings from the interface to the wifi setup menu, in case you changed something and forgot what the original setting was.

**Load Factory Settings button** – pressing this button will load the default settings.

**Save settings button** – Pressing this button on screen will save the adjusted settings from the wifi setup menu back to the interface, it is important to always do this when changing any settings.

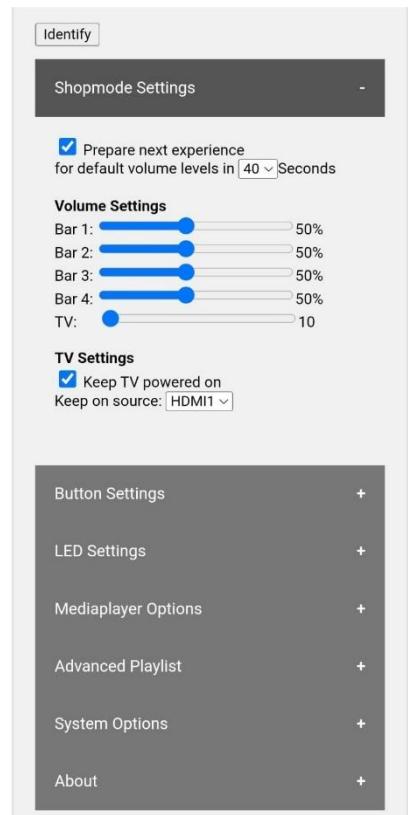


## Shopmode Settings

**Do not change any of the volume settings here.**

Under the **TV Settings** you will find the option to enable/disable the function to always keep the television powered on and set to a specific HDMI input, this is HDMI 1 by default.

Don't forget to save the settings.





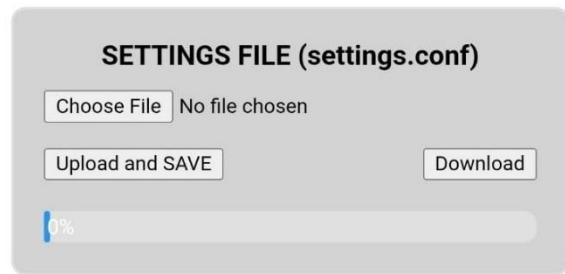
## Loading settings backup

A previously saved settings.conf file can be uploaded to the demo system to set all the options to the desired values in one action.

Make sure the settings.conf is on your smartphone and press the Choose File button on screen, this will open a file dialog where you can select the backup settings file on your smartphone.

Make sure that the correct file is selected and press the Upload and Save button on screen.

The settings will be uploaded instantly, and confirmation will be shown on your smart device, reset the demo system for the new settings to be used.



## Backup Settings

To backup your current settings press the download button and you will get a dialog window asking you to save a settings.conf file, store it somewhere on your device where you can locate it for use at another time.

## UPDATING DEMO SYSTEM FIRMWARE

To add new features to the demo system, add support for new products or change the behavior or capabilities otherwise the firmware of the eARC demo system can be updated using the wifi setup menu.

The latest software version or vendor specific software versions for the eARC interface are available on the support page for this product or the vendor sections on the support page, the link is: <https://www.createq.nl/jbl-earc-with-tablet>

Transfer the update.bin file to your smartphone and connect to the wifi setup as described below:

1. Disconnect the DC power connector from the BRIQX interface.



2. Plug the DC power connector back in the interface and within 3 seconds of doing that give the Wifi Setup button one quick press. The blue LED next to the DC power connector should start rapidly blinking.

3. Unlock your smartphone and scan the QR code labeled "Open WiFi." This will display a dialog window on your phone, prompting you to connect to BRIQX\_SETTINGS. Select "Connect to network."



4. When asked to enable the connection without access to the internet, confirm your selection.
5. Open your smartphone's browser and navigate to <http://10.10.10.10/update>

6. You will now be in the Firmware Update menu. Use the "Choose File" button to open a file dialog on your smart device. Select the provided "update.bin" file.

7. Press the "Update" button on the screen to initiate the updating process. Ensure that the power to the demo system is not disconnected during this process.

8. A progress bar will be displayed, indicating the status of the update. Once it reaches 100%, the demo system will automatically apply the new firmware.

#### FIRMWARE UPDATE

Choose File No file chosen

9. Wait approximately 30 seconds, now unplug the power from the complete techset and tablet, wait 10 seconds and plug the power back in, after booting the new firmware is implemented and the system will start up normally again.



## CONNECTING THE DEMO SET

The eARC demo set has the capability to provide the audio signal coming from the BRIQX 4K30 mediaplayer to 4 connected soundbars.

All HDMI cables to the products are pre-installed on the eARC interface and 4K mediaplayer and are mounted to a mounting plate for quick installation.

## CONNECTING SOUNDBARS

The JBL soundbars are numbered from BAR1 to BAR4 with the highest modelnumber bar usually connected to the BAR 1 position, for example :

BAR1 = BAR 1000MK2

BAR2 = BAR 800MK2

BAR3 = BAR 500MK2

BAR4 = BAR 300MK2

When the correct soundbar configuration is set in the settings page of the tablet you will also see indicated to which HDMI output on the eARC interface each soundbar needs to be connected to, it's important to adhere to this layout as this determines that the correct soundbar will start playing when it is selected on the tablet.

The soundbars connected to the demo system are hot-swappable, meaning you can connect and disconnect them while the system is powered and after the bar has fully booted it will be ready for use on the POS system.

Make sure to also adjust the current soundbar selection in the tablets settings.

There will be a text overlay shown on the television showing HDMI x Connected or HDMI x Disconnected to indicate and confirm any connects or disconnects.

When a soundbar is connected to the demo system the demo system scans the soundbar to find out if it is an ARC or eARC enabled soundbar and will set the demo system options accordingly.

The eARC demo system does not support using the HDMI IN ports on the soundbar, make sure to use the HDMI eARC or HDMI ARC connection on the soundbar as shown below.



3. Connect the powercords supplied with the soundbars to the mains power, preferably to the same switched mains sockets as the TV and eARC demo set.

## CONNECTING THE TELEVISION

The television is used to display the video content coming from the eARC demo set

1. Connect the HDMI cable coming from the TV OUT HDMI port on the eARC interface to the HDMI 1 (or other if changed in the settings of the interface) input on the television.
2. Connect the power cord from the television to the mains power, preferably to the same switched main sockets as the soundbars and eARC demo set.

## OPERATING THE DEMO SET

### DEMO SYSTEM STARTUP

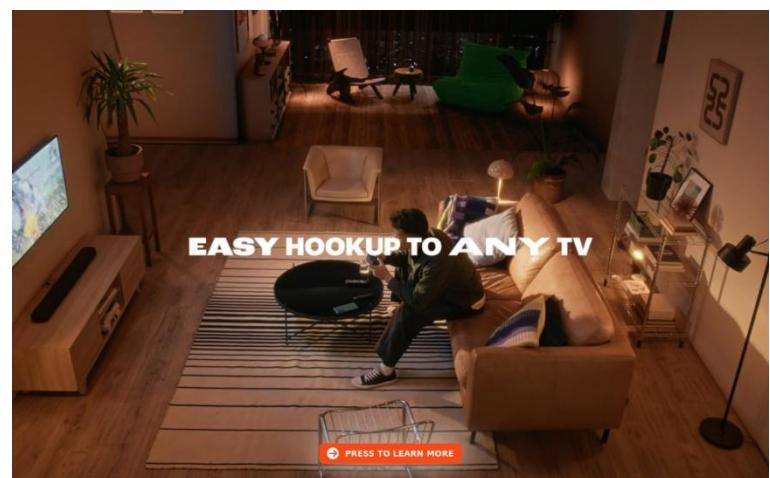
We strongly advise to have the connected products like the soundbars and television on the same electrical outlet and/or switch as the demo system itself so that they always boot at the same time when the mains power is switched on.



When the mains power is applied to the demo system, tablet, soundbars and television the boot process will start, you will see a progress bar running on the television indicating the demo set is booting, please be patient and let the system fully boot before interacting with the tablet.

During the boot process you should get a few messages on the television screen indicating Soundbar 1 HDMI connected, Soundbar 2 HDMI connected etc. for each of the connected soundbars.

After fully booting the system will default to idle mode showing the idle video on the television and tablet.

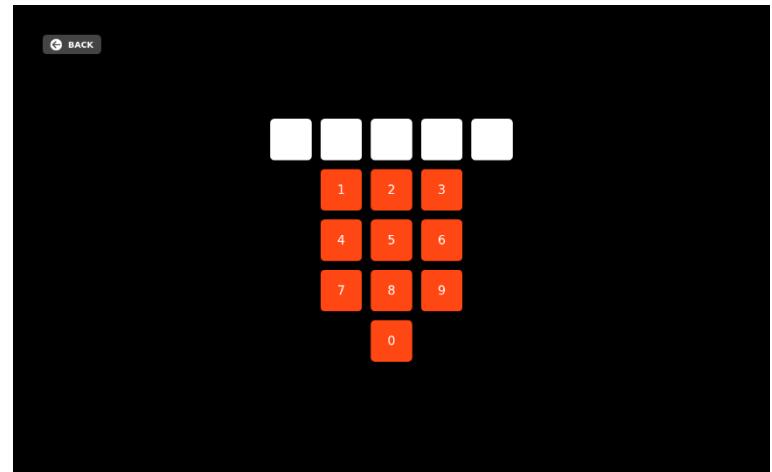
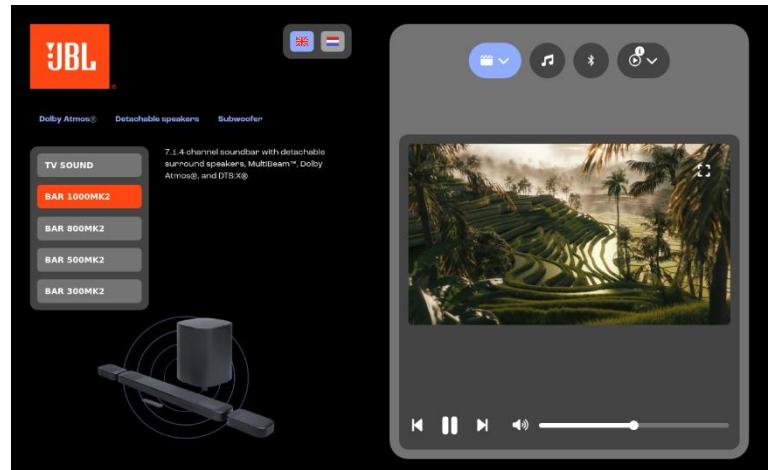


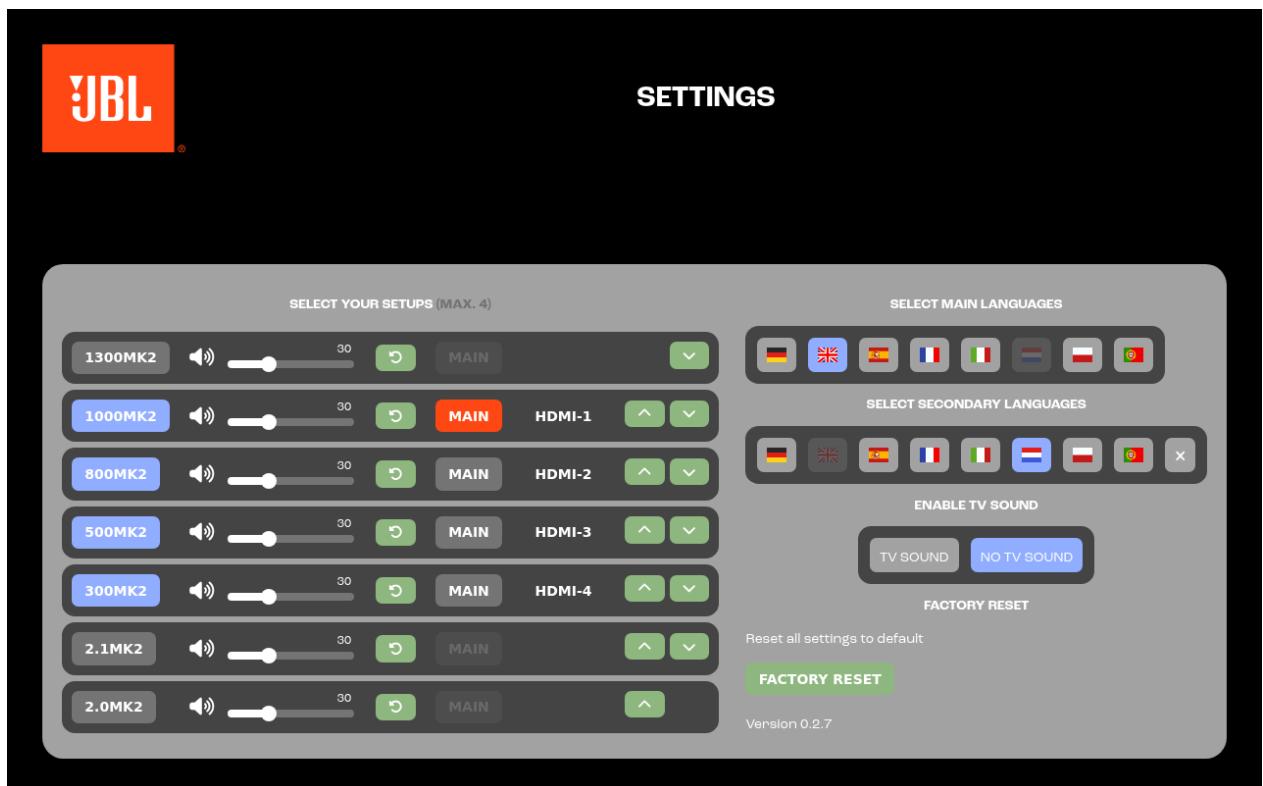
## CONFIGURING THE TABLET

To setup the tablet so that the soundbar configuration, TV button and language options are all set correctly for your current POS setup make sure the system is fully booted and playing back the idle video.

Access the settings menu by following the next steps :

1. Leave idle mode by touching the tablet screen so that you are presented with the home screen.
2. Tap the JBL logo in the top left corner of the screen 10 times, you will see a keypad window popup, enter the following code 2,4,8,6,5, this will open the settings window.





Here you can adjust the following settings :

### Select soundbar lineup

- Using the buttons on the left side of the screen you can make a selection of upto 4 soundbars, the buttons in blue are the currently selected soundbars that will be shown and selectable on the home screen.
- To change a soundbar for another model deselect one of the currently selected bars so that the button turns grey, now you can select a new soundbar.
- The position of the bars in this configuration screen should match the physical position on your POS display, this to ensure the tablet interface layout matches the POS display, you can change the position of the soundbar using the green up and down arrow buttons.

### Main soundbar selection

- You can select the MAIN soundbar here, that is the soundbar that will start playing by default when first interacting with the demo system, the MAIN button in orange indicates this is the default soundbar

### Soundbar HDMI Connections

- You will find an indication here on which port on the switching interface and HDMI cable each selected soundbar needs to be connected so that the



selection on the tablet will activate the correct soundbar on the POS display.

## Default volumes

- For each soundbar you can set its default volume level, this is the volume level the soundbar will always go back to when the demo set goes back to its idle state and the level it will be at after first booting the demo set, you can set these volumes per soundbar individually.

## Language selection

- There are a total of 2 languages selectable that will be shown in the main interface as language options, the main language is the one that will be used after boot and what the tablet will default back to when going to idle, the secondary language is shown as an selectable option in the home screen.
- It is possible to select only 1 language, that way there will be no language selection available on the home screen, use the button with the X in the secondary language selection to disable it.
- The selected language in the home screen will also be used to play language specific videos.

## Enable TV sound

- Here you can enable and disable the TV sound button shown on the home screen, when no television is connected to the demo system select No TV Sound.

## Factory reset

- Use this button to reset all settings to their default values.

## Exit Settings

- To exit the settings screen tap the JBL logo in the top left corner again.

## USING THE DEMOSYSTEM

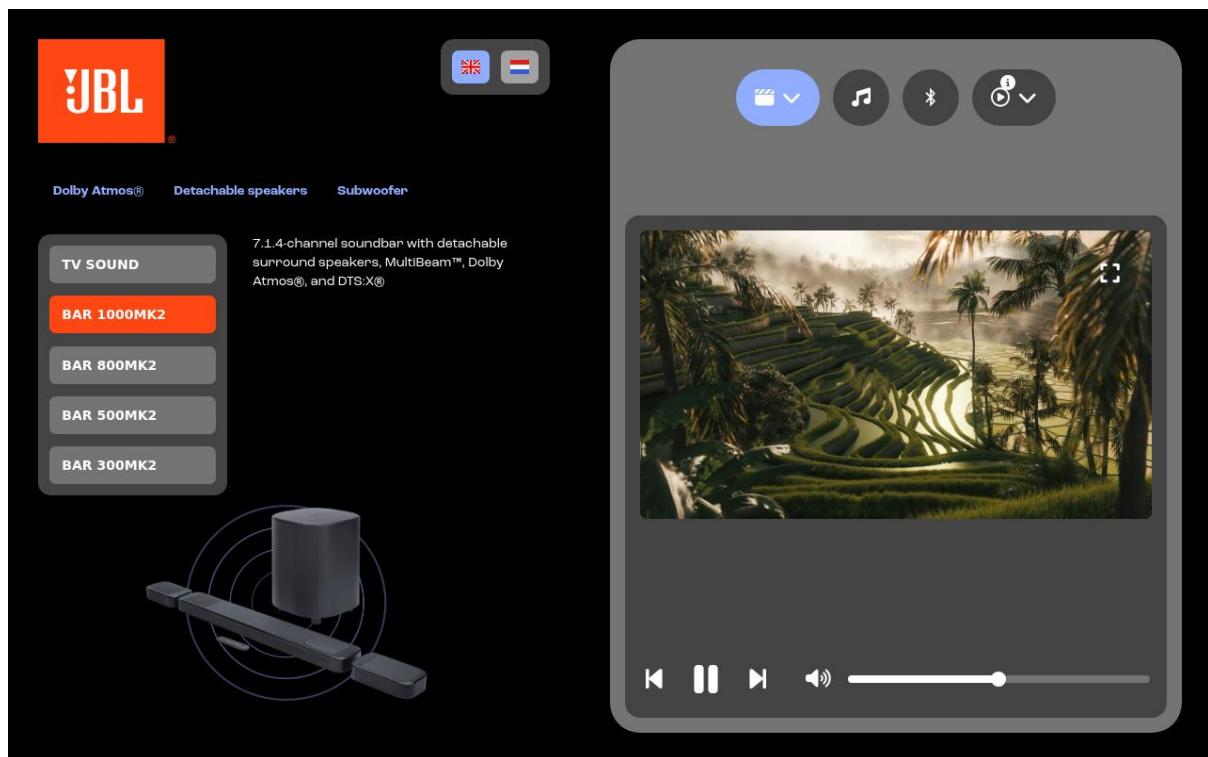
There are various operations you can perform from the home screen on the tablet :

### Soundbar selection

After leaving the idle screen on the tablet you will be presented with the home screen and the soundbar dedicated as MAIN soundbar in the settings will start playing back the movie trailer automatically.

On the left side of the home screen you will find the soundbar selection buttons and if enabled the TV Sound button, pressing one of the buttons will select that soundbar and the audio of the video currently playing will switch to the selected soundbar.

Pressing the TV Sound button will have the audio play over the televisions built-in speakers, please note that the volume controls on the tablet will not change the volume on the television, that volume needs to be set with the televisions own remote.



## Play and volume controls

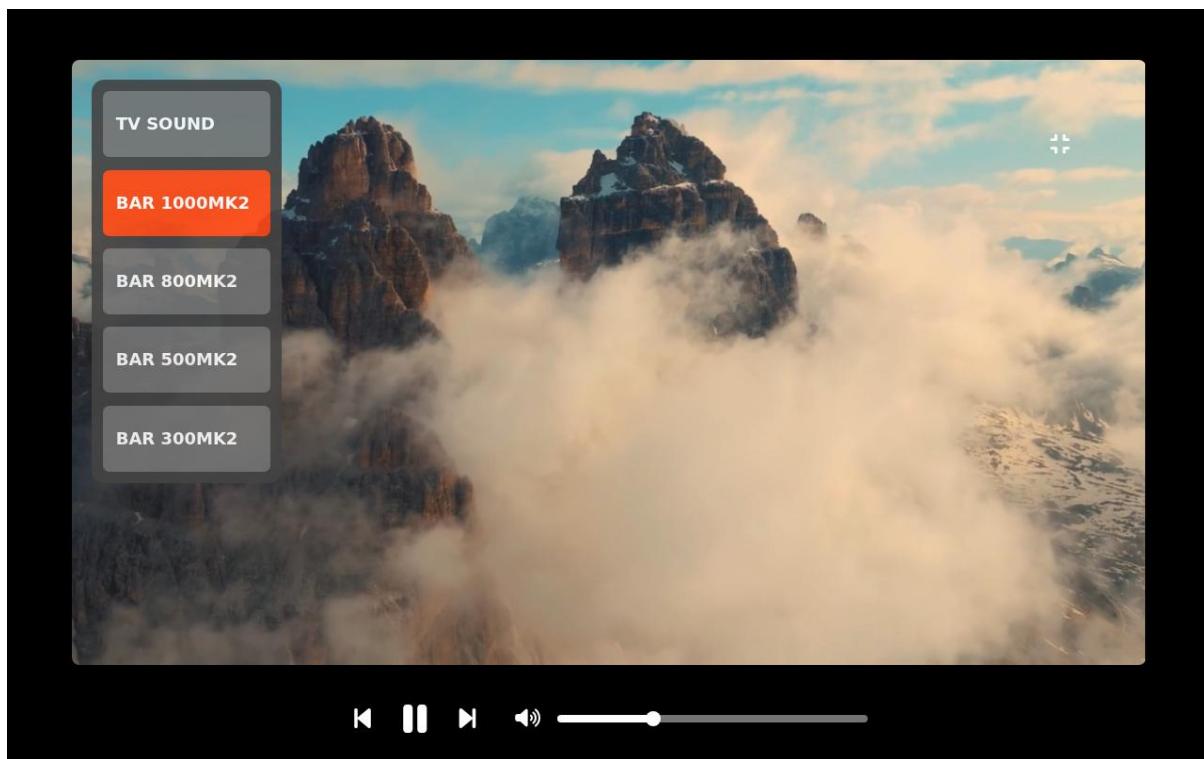
On the bottom right you will find the play controls that will let you pause and unpause the video and go to the next or previous video.

The volume slider lets you control the volume for the soundbar that is currently selected, you will see the volume level change on the display on the soundbar itself too.

## Fullscreen video

While playing a video you can make the video window full screen by tapping the square white icon shown in the top right of the video window, this will enlarge the video while still showing the play and volume controls on the bottom of the screen.

You will also see the soundbar selection buttons shown as an overlay over the video, they will disappear after a brief time but can be shown again by tapping the video window.

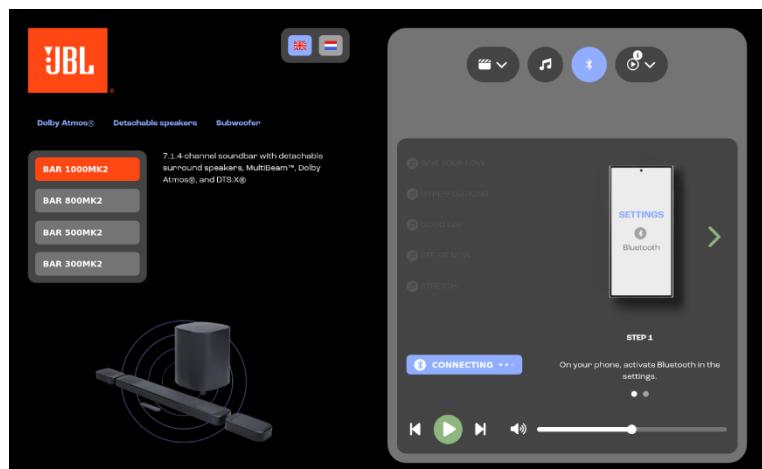
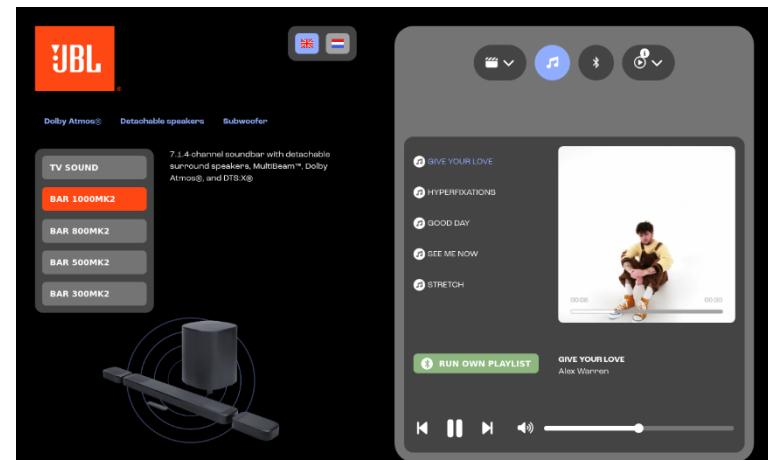
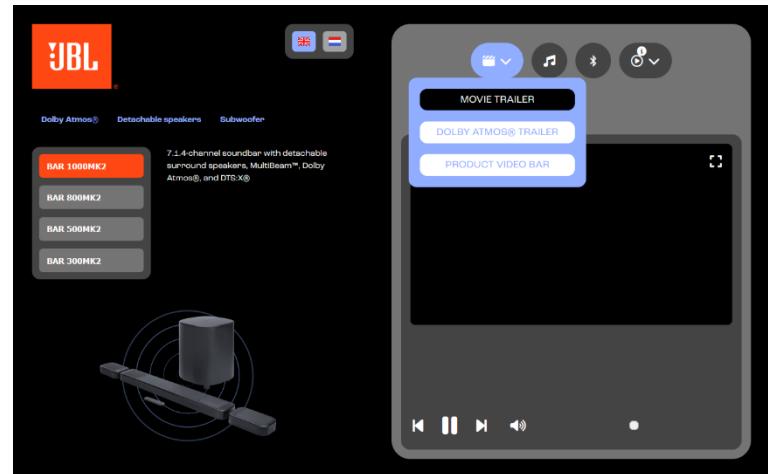


Tapping the square white icon in the top right of the video screen while in fullscreen mode will go back to the home screen.

## Content selection

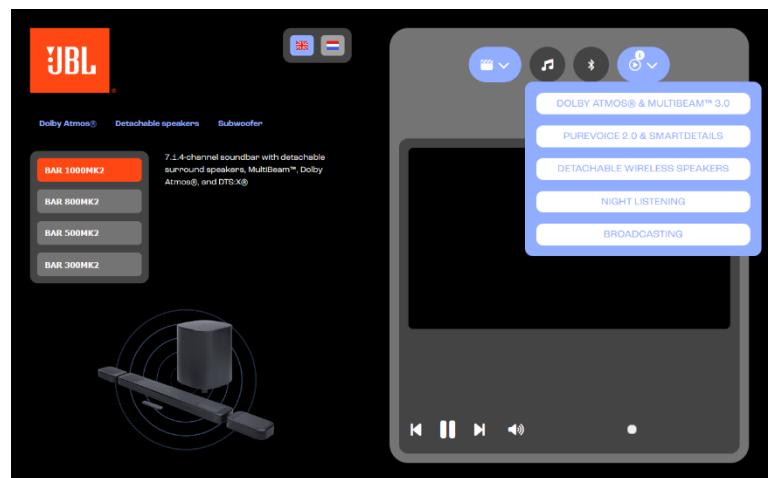
In the top right of the home screen you will find 4 buttons that let you select various content.

- The first button has the default Movie Trailer, Dolby Atmos Trailer and Product Video for the currently selected soundbar. When you switch soundbars while the Product Video is playing it will switch automatically to the correct Product Video for that soundbar, all other videos and music will continue playing while you switch soundbars so as to compare them properly.
- The second button is the Music selection, it will open the music selection window where you can select one of five audiotracks for playback.
- The green Run Own Playlist button will enable the Bluetooth connection on the demo set so you can connect with your own device and send Bluetooth audio to the soundbars.
- The third content selection button will also take you straight to the Bluetooth screen, you will see the button turn blue and saying CONNECTING..., indication the demo set is now ready for connection.



- Open your portable device and search for new Bluetooth devices to pair with, you will find a Bluetooth device called **JBL Experience**, pair with that device and start sending your preferred audio content to the demo set.
- During the Bluetooth connection you will see the LED light edge of the tablet change to the color blue to indicate you are using Bluetooth audio now, after disconnecting the LED edge will turn back to its standard orange color.
- To disconnect you can disable the Bluetooth connection on your phone or select the disconnect button on the tablet.

- The 4<sup>th</sup> content selection button will show a dropdown menu showing various feature videos specific to the currently selected soundbar, if a feature video is playing and you switch to a soundbar that does not support that feature, you will get a message saying that feature is not supported and to select a different feature.

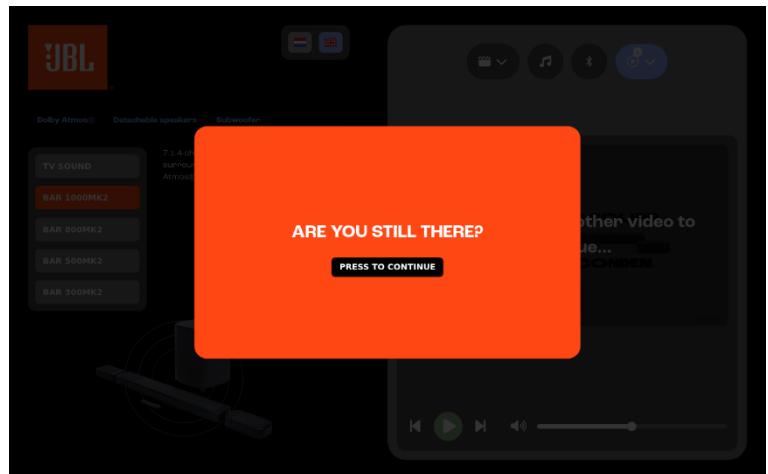


## Language selection

- When the secondary language is set to one of the 8 possible options in the settings screen you will see two language icons, indicated by the corresponding country flag so you can select which language the interface and videos will be shown.
- The left flag icon is the main language, this will be the language that the tablet and content will switch back to after the demo set goes back to idle mode, the right flag icon can be used to temporarily set the interface and content to another language.

## Idle mode

- When not interacting with the tablet for a while a messagebox will pop up asking if you are still there, press the button to continue or when you do not do anything the demo set will go back to it's idle state.





## CONTENT UPDATE

Because of file size restrictions on the 4K mediaplayer that is part of this demo set there are currently 4 language versions available of all the videos that are selectable.

So although the tablet interface allows a selection out of 8 languages those 2 selected languages have to match what's available on the mediaplayer.

There are currently 2 versions of the content files for the mediaplayer available

Version 1 : English/Dutch/German/French

Version 2 : Spanish/Italian/Portugese/Polish

If the selection that is currently on the mediaplayer that you received is not matching your requirements please contact your JBL sales rep for other options.

## Updating mediaplayer

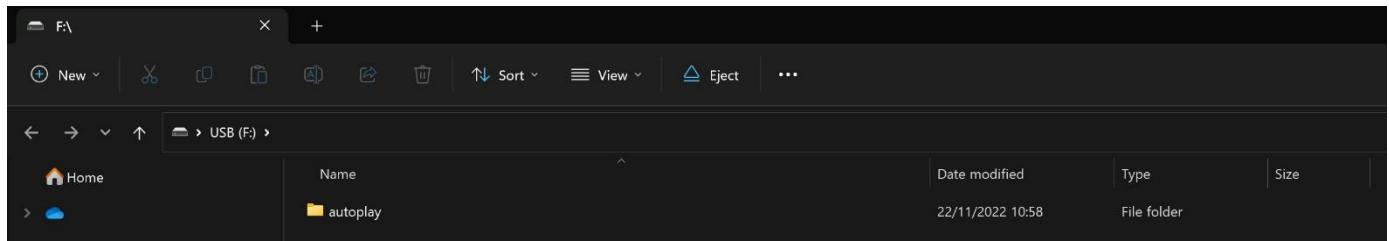
Besides the updating possibilities for the firmware and settings of the eARC module when using the BRIQX 4K30 media player with the eARC demo system it is also possible to easily update the content used for the videos and overlays that are being played back and shown on screen.

**We advise to not attempt a content update without consulting your supplier or distributor of the POS display you have received as it may result in mismatching functionality/graphics or losing the original content that is pre-installed on the system.**

Here are some of the details regarding the content and content updating.

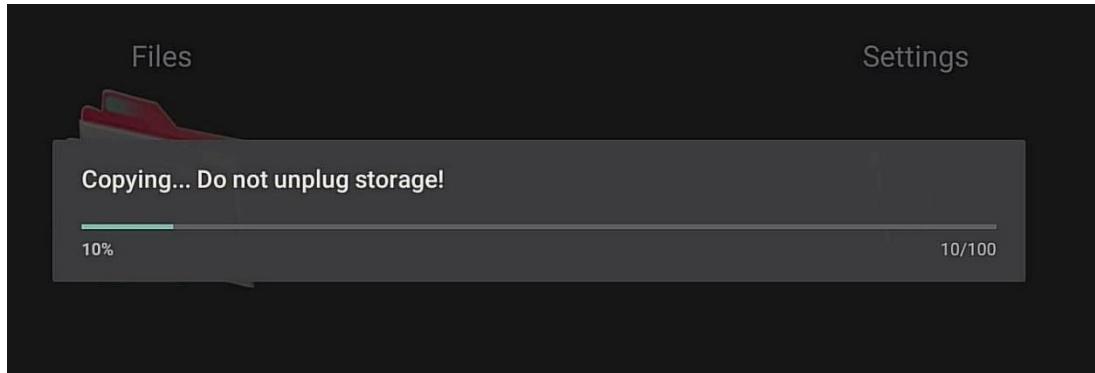
Use a windows computer to perform the instructions below, using a Apple Mac computer has proven to cause issues.

- Make sure to unzip the content update you have downloaded so that you end up with a autoplay folder with all the content inside it.
- All videos must be placed into the /autoplay folder in the root of the USB pendrive.



When the USB pen drive is prepared and loaded with all the files (that are all inside the /autoplay folder) stick the pen drive in the USB-A socket on the media player.

The player will now automatically transfer the files to the internal memory of the player, a progress bar is shown and when the bar disappears the USB pen drive can be removed and the player should start auto playing all the attract loop video files in a continues loop.



If later the need to replace one or more files arises it is important to put all the content on the USB pen drive and not only the files that you want to update.

It is important to always provide the full content package on the USB pendrive when performing a content update, as leaving any files of ill delete those file from the original content stored inside the mediaplayer.

A powercycle of the demo system is always required after a content update to get the system functioning again.

## TROUBLESHOOTING

### FAQ

#### Supported Audio Formats

Below is a list of audio formats which eARC can support:

##### Uncompressed Formats:

- 2 to 8 channels, all HDMI standard sampling rates, frequencies, and bitrates up to 192 kHz and 24 bits
- Up to 32 channels, using reduced sampling rates, such as 16-channel 96 kHz and 32-channel 48 kHz

##### Dolby Formats:

- Dolby Digital (AC-3)
- AC-4
- Dolby Digital Plus (E-AC-3, 192 kHz x 2 ch x 16 bits bandwidth)
- Dolby TrueHD
- Dolby Atmos

##### DTS Formats:

- DTS
- DTS-HD Master Audio
- DTS: X

##### Fraunhofer Formats:

- MP3
- AAC-LC
- HE-AAC
- HE-AACv2
- AAC-LC and HE-AAC combined with MPEG surround
- MPEG-H 3D Audio

## PROBLEM – SOLUTION LISTING

Television not showing videosignal/switching to wrong HDMI input	<ul style="list-style-type: none"> <li>- Check if the HDMI input setting in the wifi setup menu of the eARC interface matches the physical HDMI input used on the television</li> </ul>
Soundbar not playing back audio	<ul style="list-style-type: none"> <li>- Check if the HDMI cable going to the soundbar is connected to an eARC or ARC HDMI port, it should <u>not</u> be connected to a normal HDMI Input port.</li> <li>- Check if the soundbar is in demo mode.</li> </ul>
Television not powering on when powering the POS set	<ul style="list-style-type: none"> <li>- Check if the Anynet (HDMI-CEC) function is enabled in the settings menu for the TV</li> </ul>
After updating the content no videos are playing	<ul style="list-style-type: none"> <li>- Make sure to powercycle the demoset after a content update</li> <li>- Make sure to provide a full content package when updating the content, only providing a single file on the USB pendrive will delete all other content already present on the meiaplayer.</li> </ul>
Problems connecting to the interface using the wifi setup button	<ul style="list-style-type: none"> <li>- Press the setup button 2 or more times instead of one time to change the wifi channel you can use to connect to the interface, this to avoid possibly overcrowded wifi channels.</li> </ul>



## HOW TO CONTACT US FOR TECHNICAL ASSISTANCE (PHONE/EMAIL/WEB)

Find all related information, manuals and download at the support page here :



For technical assistance please contact us at:

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\*The product images shown are for *illustration purposes only* and may not be an exact representation of the product.



## CONNECTION DIAGRAM



JBL eARC Soundbar demo with tablet control

