

USER MANUAL



eARC/ARC Soundbar Demo

With Dolby Atmos™ support



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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 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.

In addition, there is an optical output available for bars that might not have an eARC or ARC compatible input.

The audio and video source for use on the bars can either be a connected BRIQX 4K media player or any other supported brand (BrightSign) that can send out up to 4K resolution video and HD and Atmos audio or a connected television that uses its internal video player to playback demo content, the television will also be connected to the BRIQX demo using a HDMI eARC connection as to have the optimal quality in the whole signal pathway to the soundbars.

For communication with other media players an API is available.

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

The BRIQX demo can also drive 4 LED strips that you can use to indicate which soundbar is selected.

For controlling the system 7 illuminated pushbutton connections are available, for bar selection 1 to 4 and 3 assignable connections for use as volume control buttons and mute or next track for instance.



The system can be expanded with additional BRIQX demo boxes if more than 4 soundbars need to be demonstrated or more button connections are needed using the Q-bus communication bus.

CONTENTS

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

Please be aware that the products need to be ordered separately for standard orders.

- BRIQX eARC interface box # EE.80.0005.01
Including: 4 select and 2 volume buttons,
Power adapter 12V/2A
- BRIQX 4K30 media player # PU.55.0005.01
Including: USB-A to USB-C cable
- 1x HDMI Cables with eARC support 50cm demo kit art. #
- 5x HDMI cables with eARC support 3m demo kit art. #

SETTING UP PRODUCTS FOR USE WITH THE DEMO SET

SETTINGS TV

When using a television with this demo system we advise a couple of settings to ensure the user experience is optimal.

When using the televisions internal video player as the audio source for the connected soundbars these are the settings that need to be verified:

- **Enable the CEC function** in the television, referred to by different names by the various television brands as listed below:

Samsung – AnyNet(+)

Sony – BRAVIA Link and/or BRAVIA Sync

LG – SimpLink

Panasonic – HDAVI Control, EZ-Sync and VIERA Link

Philips – EasyLink

- **Enable eARC**, the eARC function is often not enabled by default in the television's menu, you can find the setting in the sound section of the settings manual usually.

- **Enable Dolby Atmos™**, to enjoy the full audio potential of the eARC demo system Dolby Atmos™ support must be enabled in the televisions settings.

SETTINGS SOUNDBARS

The BRIQX eARC demo set handles most of the functions normally covered by special POS modes available in the soundbar firmware's so we advise to disable the demo mode on the soundbars completely.

The functions that are done by the demo system to ensure a proper demo and correct behavior are:

- Default volume settings per soundbar, resets after set period
- 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 is still on the correct source input, if not switches it back to the eARC input (not supported on all soundbars)

If the need to enable the demo or POS mode on the soundbar is still present please lock the source input to eARC or TV, that way the signal from the demo system will always play back when the soundbar is selected.

ADJUST SETTINGS DEMO SYSTEM USING WIFI SETUP

There are multiple ways to use the eARC demo system and tune the system to your liking, the behavior of the pushbuttons can be changed and various other settings.

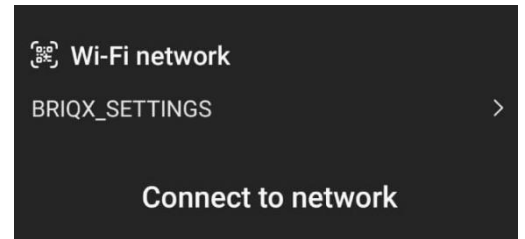
The settings can be accessed using your smartphone and connecting through wifi to the interface, to enable the wifi setup please follow these instructions:



1. Unplug the DC power connector from the interface.
2. While holding the wifi setup button on the side of the interface plug the DC power connector back into the interface, the blue LED next to the DC power connector should now be rapidly blinking.



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:

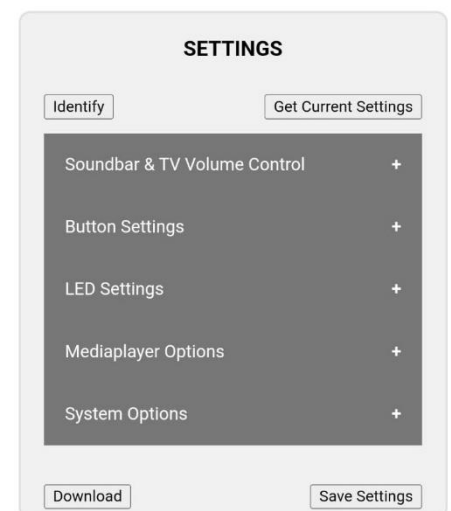


AVAILABLE SETTINGS

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.

Get Current Settings button – pressing this button on screen will load the current settings from the interface to the wifi setup menu.

Download button – pressing this button will download the settings from the wifi setup menu to a settings.conf file on your smart device, this can be used to upload to another interface later or for backup purposes, you can upload the settings.conf (This must have exactly the same name and extension) using the File update section on the bottom of the wifi setup menu.





Save settings button – Pressing this button on screen will save the adjusted settings from the wifi setup menu back to the interface.

Soundbar & TV Volume Control

Opening this settings tab will show 5 volume sliders, 4 for the 4 soundbars and one for the television.

The volumes set here will be used as default volumes on the soundbars and television, meaning that when a soundbar is selected it will be at the default volume set in this menu, when during the use of the demo system a customer changes the volume, it will be set back to this default volume level after a set period of time.

The default volumes can also be set using a pushbutton combination, when changed this way opening the wifi setup menu will reflect the adjusted default volumes when opened.

The volumes for the soundbars are represented as a percentage (10-100%), the volume for the television as a total of volume steps (10-100 steps).

The minimum volume is set to 10% to avoid having the soundbars be silent at any time when selected.

Don't forget to save the settings after you change the default volumes.

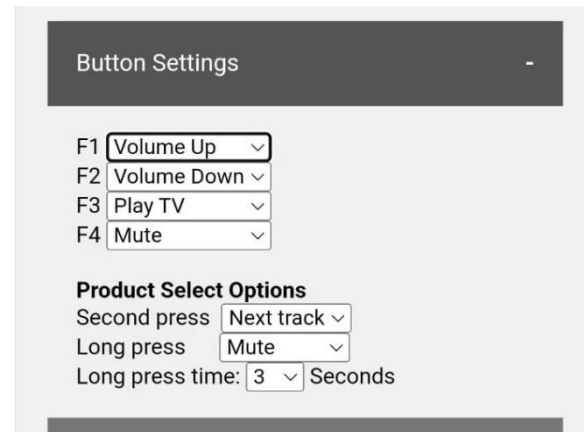
The screenshot shows a settings interface titled "SETTINGS". At the top, there are two buttons: "Identify" and "Get Current Settings". Below this is a section titled "Soundbar & TV Volume Control" with a minus sign icon. This section contains five sliders, each with a blue knob and a percentage label: "Position 1: 25%", "Position 2: 25%", "Position 3: 25%", "Position 4: 25%", and "TV (not in %): 10". Below the sliders is a list of expandable settings: "Button Settings", "LED Settings", "Mediaplayer Options", and "System Options", each with a plus sign icon. At the bottom of the settings panel are two buttons: "Download" and "Save Settings".

Button Settings

On the button settings tab in the wifi setup menu the behavior for the pushbuttons connected to position F1, F2, F3 and F4 can be set and the double press and hold behavior of the soundbar selection buttons can be adjusted.

For the F1-F4 buttons the options are:

- Disable** - disables this button connection
- XBUS** – set this port for use with an X-bus extension module
- Volume Up** – Volume up
- Volume Down** - Volume down
- Mute** – Mute audio
- Next Track** – Skip to next track
- Play TV** – Play audio from TV
- Vendor Specific 1** – Vendor specific action
- Idle** – Set demo system back to idle mode



The screenshot shows the 'Button Settings' menu. It contains four function buttons (F1-F4) with dropdown menus. F1 is set to 'Volume Up', F2 to 'Volume Down', F3 to 'Play TV', and F4 to 'Mute'. Below these is a 'Product Select Options' section with 'Second press' set to 'Next track', 'Long press' set to 'Mute', and 'Long press time' set to '3 Seconds'.

- The second press & long press on a bar selection button options are:

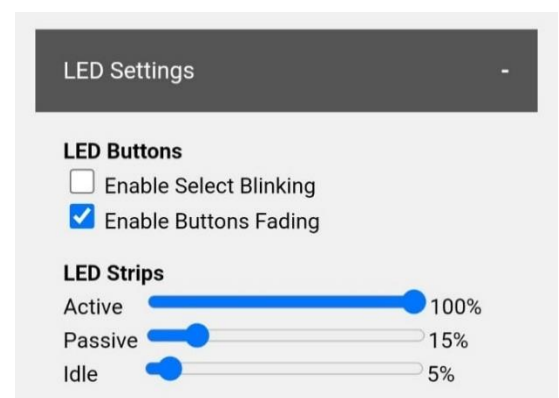
- Disable** – No action assigned
- Mute** – Mute the currently selected device
- Next Track** – Skip to the next track
- Idle** – Set demo system back to idle mode
- Long press time** – Time for the long press action to be executed when holding the pushbutton down

LED settings

The LED settings tab in the wifi setup menu can change how the LED pushbutton illumination and LED outputs on the interface box behave.

LED Buttons

- Enable Select Blinking** – The led ring inside the soundbar selection buttons will give a confirmation blink when the corresponding soundbar position is selected.
- Enable buttons Fading** – The led rings inside the soundbar selection pushbuttons will slowly fade in- and out when the demo system is in idle mode.



The screenshot shows the 'LED Settings' menu. Under 'LED Buttons', there are two checkboxes: 'Enable Select Blinking' (unchecked) and 'Enable Buttons Fading' (checked). Under 'LED Strips', there are three sliders: 'Active' at 100%, 'Passive' at 15%, and 'Idle' at 5%.

LED Strips

Active – This slider sets the LED outputs brightness when the corresponding soundbar position is selected.

Passive – This slider sets the LED outputs brightness when the corresponding soundbar position is not selected.

Idle – This slider sets the LED outputs brightness when the demo system is in idle mode.

Media player settings

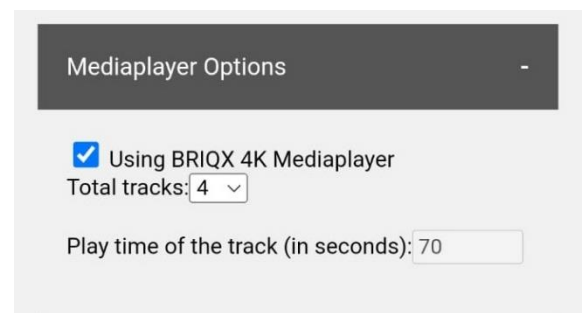
In the media player settings tab, the source for the system can be set to the BRIQX media player, when disabled the internal video player of the television will be used as the audio source for the soundbars.

Using BRIQX 4K Media player – Enable this when the BRIQX media player is used in the system as source.

Total tracks - Set the total number of selection videos present on the system.

Play time of the track (in seconds) –

When not using the BRIQX media player, you can adjust the playback time for the selected videos. This means that even if a video's duration exceeds the set time, the system will return to idle mode after the specified duration.



The screenshot shows a settings panel titled "Mediaplayer Options". It contains a checked checkbox labeled "Using BRIQX 4K Mediaplayer". Below this, there is a "Total tracks:" label followed by a dropdown menu showing the number "4". At the bottom, there is a "Play time of the track (in seconds):" label followed by a text input field containing the number "70".

System Options

In the system options tab, some general functionality can be adjusted.

Enable TV always on (Retail Mode) – When this setting is enabled the demo system will keep the TV always powered on, if you would like to switch the TV off at any time, for instance at the end of the day for store closing time, disable this setting.

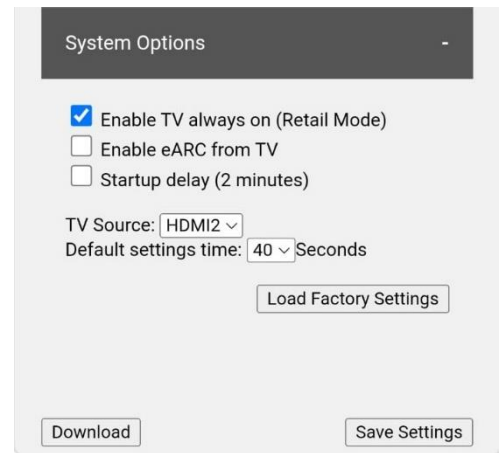
Enable eARC from TV – Enabling this option will use the televisions internal video player (if supported) as the audio source for the demo system using an eARC connection.

Startup delay (2 minutes) – Enabling this option will add 2 minutes to the startup time for the demo system, this optionally gives soundbars more time to boot up when power is applied to the system. Whether this option is required or not depends on the brand.

TV Source – Here you can set which HDMI port is being used on the television by the demo system, the demo system will monitor if the source on the television is on this HDMI input and if not will change it automatically to the right input.

Default settings time – The time set here is the delay after the demo system returns to it idle state that the soundbars and television will be set back to their pre-set default volumes.

Load Factory Settings button – pressing this button on screen will load the factory settings for the demo system.



The screenshot shows the 'System Options' menu with the following settings:

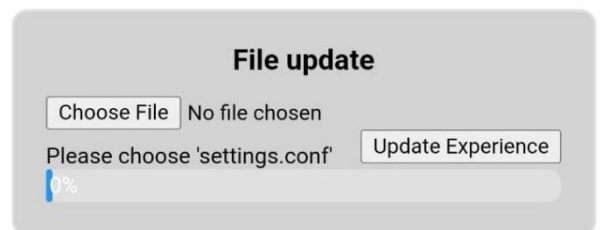
- ☒ Enable TV always on (Retail Mode)
- ☐ Enable eARC from TV
- ☐ Startup delay (2 minutes)
- TV Source: HDMI2
- Default settings time: 40 Seconds
- Buttons: Load Factory Settings, Download, Save Settings

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 Update Experience button on screen.



The screenshot shows the 'File update' dialog with the following elements:

- Buttons: Choose File, No file chosen
- Text: Please choose 'settings.conf'
- Progress bar: 0%
- Button: Update Experience



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

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 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/xxxxxx>

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. While holding down the Wi-Fi setup button located on the side of the interface, reconnect the DC power connector to the interface. 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 restart and be ready for use again.

FIRMWARE UPDATE

Choose File

No file chosen

Update

0%

CONNECTING THE DEMO SET

The eARC demo sets has the capability to provide the audio signal coming from either a television internal video player or a separate media player to 4 connected soundbars.

To enable demonstrating any model soundbar that does not have an HDMI connection an optical audio output is also available for 1 soundbar.

PHYSICAL CONNECTIONS TO MAKE TO PRODUCTS

When using a full 4 soundbar setup the physical connections to the products to make are:

1. Connect the soundbars you want to use in the demo to the HDMI connectors labelled BAR 1 to BAR 4 on the interface, use the eARC or ARC HDMI ports on the soundbars.
2. Connect the television to the TV eARC port on the interface and on an eARC or ARC compatible HDMI input on the television.
3. When using an external media player like the BRIQX 4K30 player connect the HDMI output of the player to the HDMI connector labelled MEDIA HDMI IN on the interface.
4. Connect a USB-A to USB-C cable from the port labelled USB on the interface to the USB-C port on the media player.
5. Connect the various pushbuttons that you want to use in the system, the soundbar selection buttons connect to the B1, B2, B3 and B4 connectors on the interface, additional buttons like the volume buttons connect to the F1, F2 and F3 connectors on the interface.
6. An additional pushbutton can be connected to F4 when optional functionality is required.
7. When any LED strips are mounted in the POS display connect these to the LED 12V outputs on the side of the module.



8. When multiple eARC modules are being used in a bigger system, or any other BRIQX enabled products, the Q-bus communication connects each BRIQX module together.
9. Connect the supplied 12V2A power adapter to the 12V DC input on the module to power the eARC demo system.

CONNECTING SOUNDBARS

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.

There will be a text show 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.

You can check if the demo system recognizes the soundbar as an ARC or eARC enabled bar by the behavior of the soundbar selection pushbutton when the soundbar is first plugged into the system.

- When the soundbar is detected as eARC compatible the pushbutton will blink once.
- When the soundbar is detected as only ARC compatible it will blink 10 times in rapid succession.

For soundbars that do not have ARC or eARC inputs but do have a optical input there is provision for an optical output to one soundbar.

The eARC demo system does not support using the HDMI IN ports on the soundbar.

CONNECTING THE TELEVISION

The television connected to the system can be used in two configurations:

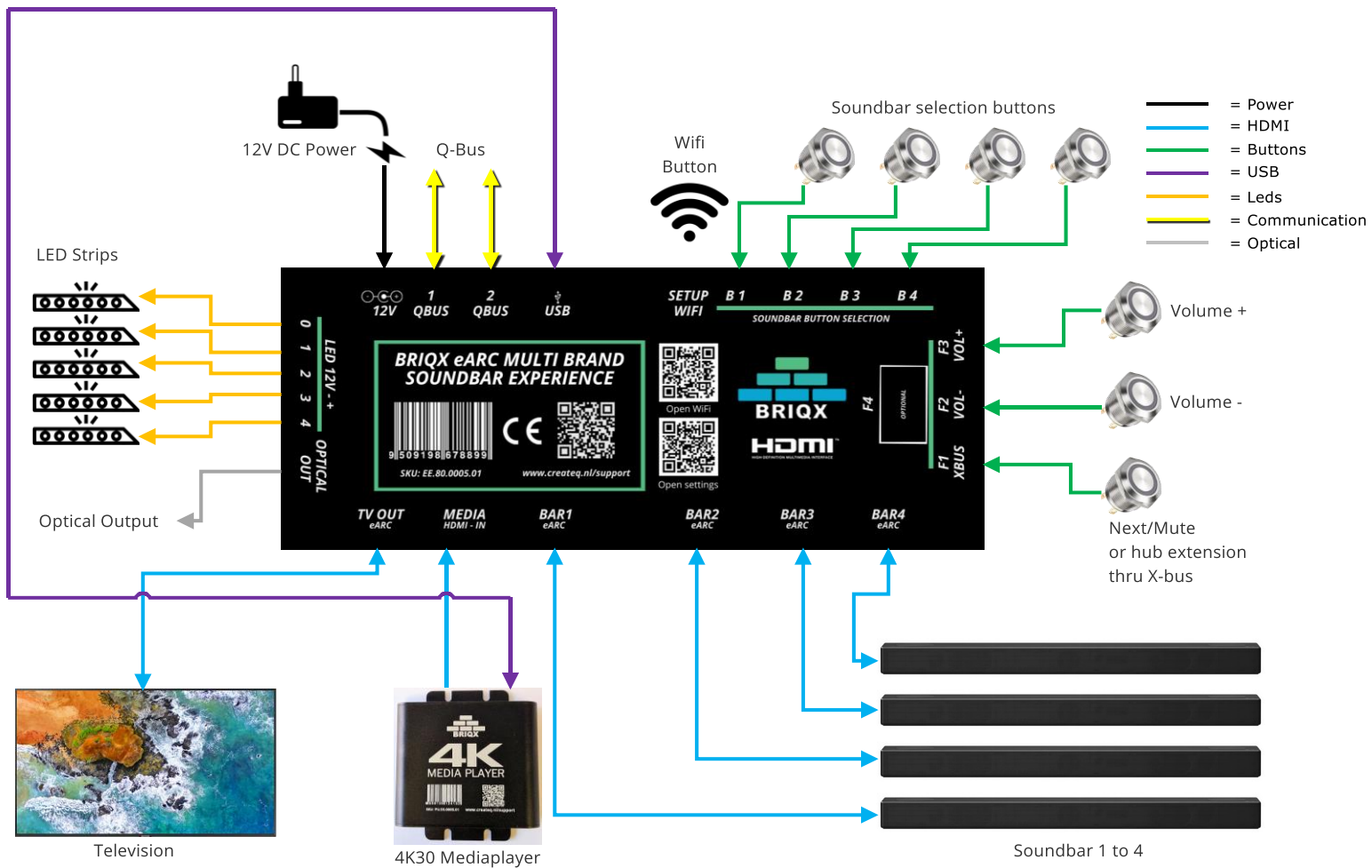
1. Only for playing back the video and audio coming from the BRIQX media player in the demo system.
2. When configured to use an eARC connection to the demo system and with the settings accordingly as the audio source for the soundbars.



The TV gets connected using a HDMI cable for the audio and video signals and with certain brands and/or models an additional USB cable to a communication port on the demo system module is needed to be able to control the volume level on the TV.

CONNECTING QBUS and XBUS

CONNECTING DIAGRAM



The connecting diagram shows all the connections there are to make to get a fully functional demo system.

In the settings menu for the interface, you can select which source to use for the audio that gets send to the bars, the internal video player from the television or the external BRIQX media player.

CABLES

When using the demo system with 4K video and using Dolby Atmos™ audio signals there are minimum requirements on the HDMI cables to use with the system, this to ensure that the eARC functions work correctly and the audio and video signals can be sent to the TV and bars without restrictions.

When using 4K (3840x2160p) video at **30** frames per second, also called 4K30 we advise to use cables that have the following specifications:

- High Speed HDMI® Cable with Ethernet

When using 4K (3840x2160p) video at **60** frames per second, also called 4K60 we advise to use cables that have the following specifications:

- Premium High-Speed HDMI® Cable and Premium High-Speed HDMI® Cable with Ethernet

To ensure that the cables are of a good quality you can order these together with the eARC demo set, the supplied cables are tested and approved for use with the demo system.



OPERATING THE DEMO SET

DEMO SYSTEM STARTUP

When the 12V DC power is applied to the demo system the boot process will start indicated by the blinking of the soundbar selection pushbuttons, this process in standard configuration takes about 1 minute, possible more when the option for an extra delay is selected in the settings menu.

The demo system will indicate it is ready for use by starting its idle mode routine that is indicated by the slow fading in and out of the LED rings in the bar selection push buttons.

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.

During the idle mode the attract loop video is shown on the television and the soundbars and television are muted.

SELECTING A SOUNDBAR OR TELEVISION

Using one of the selection pushbuttons the connected soundbars can be selected for playback, this will set the volume of the selected soundbar to its predetermined volume level and start the first selection video.

Now any other connected soundbar can be selected and it will start playing back the audio from the already playing selection video, so that a good comparison can be made between the soundbars.

If configured the pushbutton to switch to TV sound will also light up, when pressed the currently selected soundbar will be silenced and the televisions volume will be turned up to its pre-set volume level.

Double pressing or holding one of the selection buttons can trigger another action, like next track or mute, determined by the settings in the settings menu.

After a certain time of no user interaction with the demo system or when the playing selection video is ended the demo system will return to its idle state.



ADJUSTING THE DEFAULT VOLUMES

To set the default volumes for the connected soundbars there are two procedures, one is using the wifi setup menu for the demo system, the second procedure is using the selection pushbuttons for the bars.

1. To enter the default volume mode please press and hold the corresponding soundbar selection pushbutton for about 15 seconds, the illuminated ring on the pushbutton will start blinking rapidly, you have now entered the default volume mode for this soundbar.
2. Now use the volume buttons present on the soundbar itself to set your desired volume level.
3. Once you are happy with the new default volume give the bar selection pushbutton one press and you will have stored the new default volume level for that individual soundbar.

To set the default volumes using the wifi setup menu please refer to the corresponding section in this manual.

Content Update

Besides the updating possibilities for the firmware and settings of the eARC module when using the BRIQX 4K30 or BRIQX 4K60 Online 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.

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

Content Settings

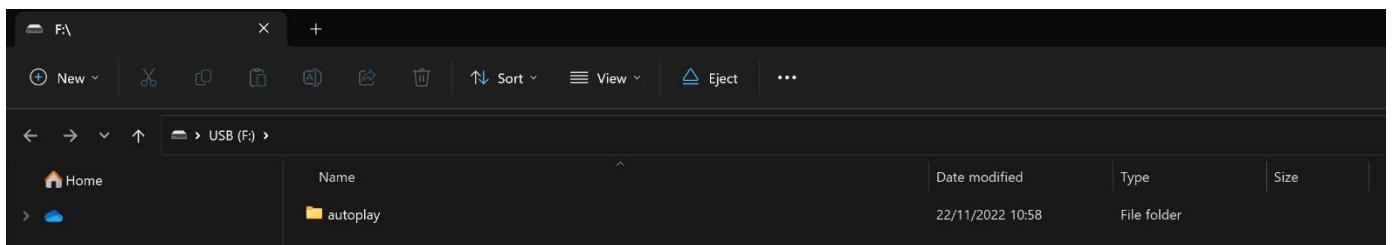
The BRIQX 4K30 player supports 4K resolution video files reliable up to 30 frames per second with a preference for the H265 codec with a bit rate of 30mbps.

For the overlay files we recommend using a maximum resolution of 1920x1080 even when using 4K video output, as this scale the most optimal.

The overlays must be PNG graphic files with transparency support, the video playing behind the overlay will then show through the transparent parts of the PNG file, partial transparency is supported.

Attract Loop videos

- All videos must be placed into the /autoplay folder in the root of the USB pendrive.



- The attract loop videos must start their filename with Axx__ (that is two underscores)
So, the first file is named A01__xxxxxxx.mp4
The second file is named A02__xxxxxxx.mp4 etc.
- So, all the video files which names start with Axx__ will play in a continues loop.
- A00 cannot be used as a filename as that is reserved as a special command.

1. Selection videos

- The selection videos must also be placed in the /autoplay folder of the USB pen drive.



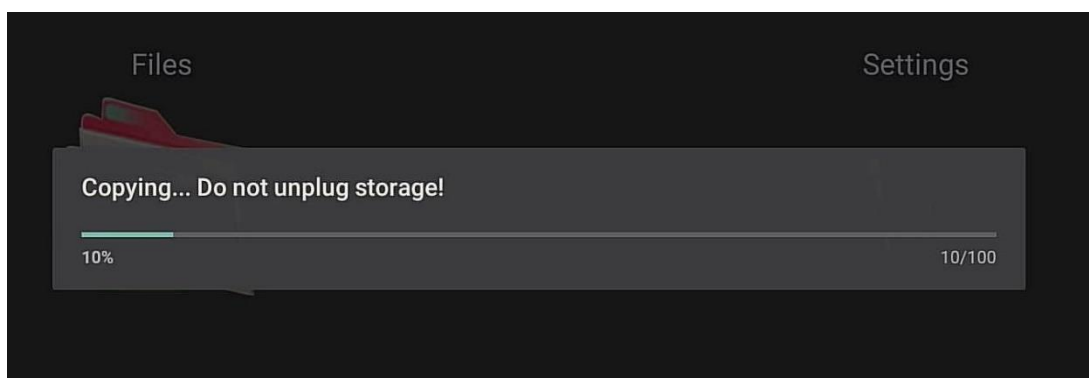
- The selection video file names must start with Vxx__
- So, the first selection video file is named V01____.mp4
The second selection video file is named V02____.mp4 etc.
- The selection video files are bound to a specific selection action in the switching interface that the video is tied to in the interface software.
- V00 cannot be used as a filename as that is reserved as a special command.

Overlays

- To use graphical overlay files, they too must be placed in the /autoplay folder of the USB pen drive.
- The overlay files must be PNG graphic files with transparency support.
- 1920x1080 resolution gives the best results.
- The graphical file names must start with OVLxx
- The first overlay file is named OVL01____.png
The second overlay file is named OVL02____.png
- OVL00 cannot be used as a filename as that is reserved as a special command.

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.

Filenames

The eARC demo system in connection with the BRIQX 4K30 player uses a standard set of content filenames to ensure the correct functioning together, here is a listing of the standard files, **the important part are the first characters including the double underscores** ex. A01__ , everything behind those characters can be anything you like, represented below as xxxxxx.

Video Content	Usage
A01__xxxxxx.mp4	Attract loop video
A02__xxxxxx.mp4 - A03__ xxxxx, etc.	Additional attract loop videos
V01__xxxxxx.mp4	First selection video
V02__xxxxxx.mp4 - V03__ xxxxx, etc.	Additional selection videos
Overlay Content	Usage
OVL79__xxxxxx.png	Boot screen overlay
OVL80__xxxxxx.png	HDMI 1 Connected overlay
OVL81__xxxxxx.png	HDMI 1 Disconnected overlay
OVL82__xxxxxx.png	HDMI 2 Connected overlay
OVL83__xxxxxx.png	HDMI 2 Disconnected overlay
OVL84__xxxxxx.png	HDMI 3 Connected overlay
OVL85__xxxxxx.png	HDMI 3 Disconnected overlay
OVL86__xxxxxx.png	HDMI 4 Connected overlay
OVL87__xxxxxx.png	HDMI 4 Disconnected overlay
OVL88__xxxxxx.png	Please wait... overlay
OVL89__xxxxxx.png	Ready for use overlay
OVL90__xxxxxx.png	Next track overlay
OVL91__xxxxxx.png	Volume down overlay
OVL92__xxxxxx.png	Volume up overlay
OVL93__xxxxxx.png	TV selected overlay
OVL94__xxxxxx.png	Soundbar 1 selected overlay
OVL95__xxxxxx.png	Soundbar 2 selected overlay
OVL96__xxxxxx.png	Soundbar 3 selected overlay
OVL97__xxxxxx.png	Soundbar 4 selected overlay
OVL98__xxxxxx.png	Mute overlay

Should you like other overlays or content functionality than described here please contact us for a bespoke solution.

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



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

For technical assistance please contact us at:

Createq B.V.

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