

C-10, C-5

User guide

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Introduction

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1.1 Versions of the product

Regional versions

Depending on the location where you buy the C-10, C-5 product, the Base Unit and accessories are regionalized. By the time of release of this manual, 6 regional versions of C-10, C-5 are available:

- EU
- US
- NA
- CN
- ZH
- RW



The regional version of your C-10, C-5 cannot be changed. That means that you cannot use it in another region.

For more information on the regional variants, refer to the C-10, C-5 Installation Guide.

Link between Barco product brand name and the model group

C-10, C-5 is a Barco product of the model group C 3010S

1.2 About this guide

About the documentation

This user guide explains the practical use of the C-10, C-5 .

Available System documentation

A printed copy of the Safety Guide is included in the C-10, C-5 box at purchase. Other documentation such as user guide, installation manual and service manual can be downloaded from Barco's website, www.barco.com/clickshare.








Depending on the C-10, C-5 version, some graphics might be different to the ones used in this manual. This however does not have any effect on the functionality.

1.3 Symbols and fonts

Symbol overview

The following icons are used in the manual :

	Caution
	Warning
	Info, term definition. General info about the term
	Note: gives extra information about the described subject
	Tip: gives extra advice about the described subject

Font overview

- Buttons are indicated in bold, e.g. **OK**.
- Menu items are indicated in *italic*.
- Step related notes, tips, warnings or cautions are printed in *italic*.
- Procedure related notes, tips, warnings or cautions are printed in **bold** between 2 lines preceded by the corresponding icon.

Introduction of the C-10, C-5

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2.1 About the C-10, C-5

C-10, C-5 sets

This ClickShare device is a wireless presentation system and your ticket to a collaborative meeting.

This device not only helps the presenter get the presentation on-screen in a second. The result is enhanced meeting efficiency and better decision-making.

The set is compatible with any laptop, desktop tablet or smartphone OS.

At the moment 5 different sets are available on the market. Each set is sold in its specific region and it can only be used in that specific region because of WiFi regulations.

Components

For C-10:

A standard C-10 set consists of a Base Unit and one Button. Depending on the location where you buy the product, the software of the Base Unit is different.

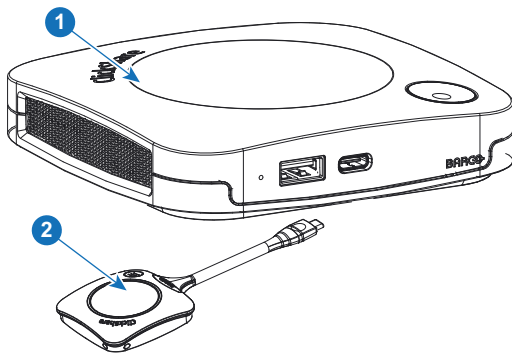


Image 2-1

- 1 Base Unit
- 2 Button

For C-5:

A standard C-5 set consists of only a Base Unit. Depending on the location where you buy the product, the software of the Base Unit is different.

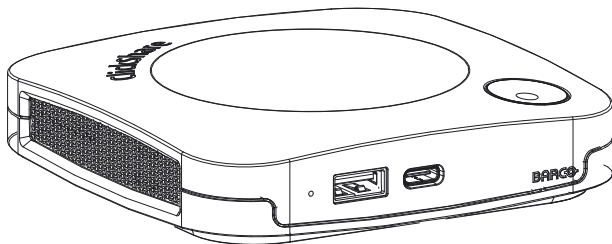


Image 2-2

Accessories included

Depending on the country where you buy the product, the following regionalized accessories are also included in the box.

Products	Box content
C-10, R9861611xx ²	<ul style="list-style-type: none"> • R9861613 • 1 x R9861600D1C³ • DC adapter with AC clips type A, C, G, I⁴ • Wall mount system • Printed safety manual
C-5, R9861605xx ²	<ul style="list-style-type: none"> • R9861613 • DC adapter with AC clips type A, C, G, I⁴ • Wall mount system • Printed safety manual
R9861600D01C ^{3, 5}	1 x R9861600D1C ^{3, 5}

Contact your local sales representative for the correct regional variant to be used in your country.

2. xx=EU, CN, NA, US, ZH, RW,
 3. For US, R9861600D1CUS
 4. Included AC clips can be different according to the region
 5. Not for C-5

Getting started

3

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3.1 Activating the Base Unit

About power mode

The Base Unit is powered via an external power adapter. Once connected, the Base Unit is automatically switched in standby mode. For more information about power connection, see C-10, C-5's installation manual.

Standby button

1. Push the button shortly.

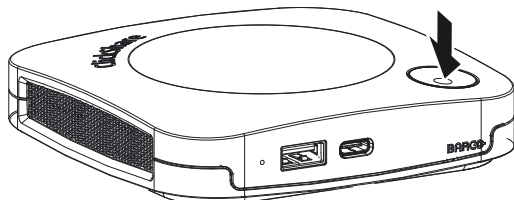


Image 3-1

When the Base Unit was on, it goes to standby.

When the Base Unit was in standby, it starts up.

3.2 Basic Use, with ClickShare desktop app

About the ClickShare desktop app

With the ClickShare desktop app installed on your computer you can enter a meeting room and get on the screen in a few seconds.

The ClickShare desktop app connects to the meeting room screen in order to share your content. Presence detection technology is used to do so. The ClickShare desktop app uses Wi-Fi beacons and an inaudible audio signal to detect the most nearby meeting rooms and show a list of maximum 5 most nearby meeting rooms, sorted based on signal strength on your computer. Just click on your meeting room name. This means you will never have to enter IP addresses or scroll long lists of meeting rooms before being connected to your meeting room.

The ClickShare desktop app can be used with or without a Button.

ClickShare desktop app installation

When the ClickShare desktop app is not pre-deployed in your IT environment, you can download and install the software without administrator rights from www.clickshare.app.

How to use

1. Enter a meeting room.

The ClickShare desktop app will list up to 5 most nearby meeting rooms and sort them based on the signal strength.

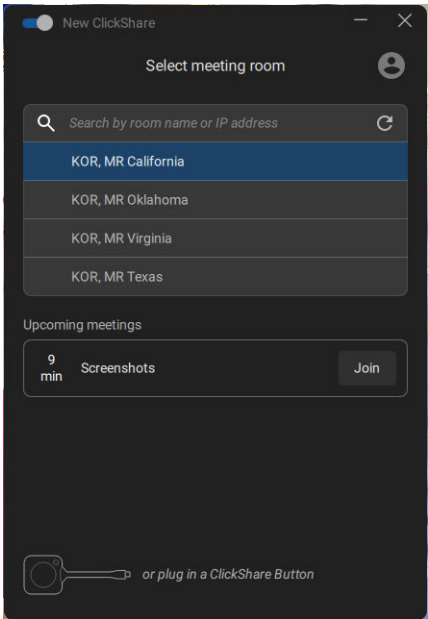


Image 3–2 Meeting room list

2. Click on the desired meeting room.

If the use of a pin is enabled on the Base Unit, the ClickShare desktop app will prompt you to enter the pin that is shown on the meeting room screen. An indication where to find the pin code on the screen is given in the desktop app and indicated with a red arrow.

Enabling the pin on the Base Unit (this can be done in the ClickShare Configurator) provides an additional layer of security. This way you will never share your content to the wrong meeting room screen.

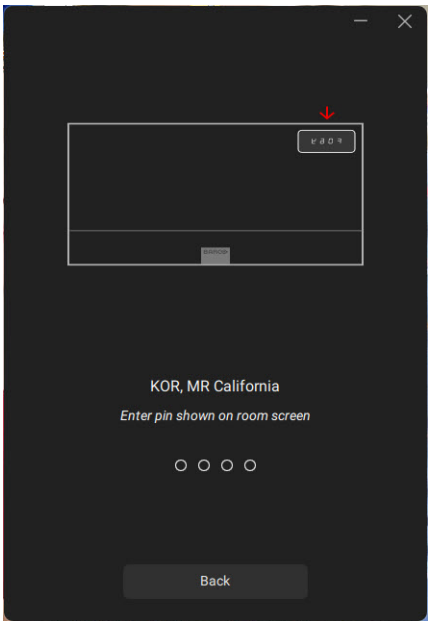


Image 3–3 Enter pin

After having entered the pin, the ClickShare desktop app will connect to the meeting room.

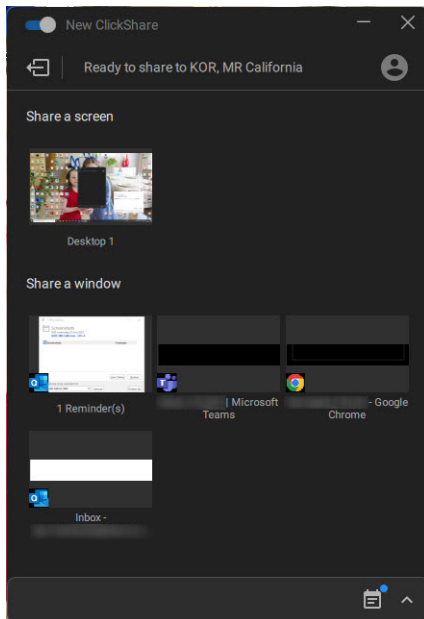


Image 3–4 Ready to share

3. Start sharing a display or a window. Click on the desired object you want to share.

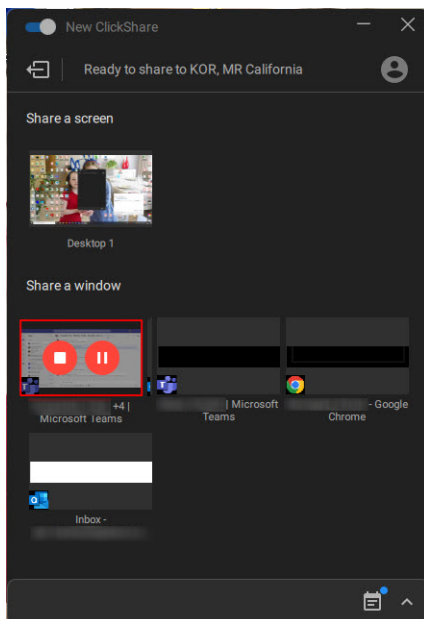


Image 3–5

When the sharing is started, a stop sharing and pause icon is added on the shared window and the ClickShare desktop app will minimize after a while.

Click on the minimized icon to open the full interface of the ClickShare app.to

- either pause your sharing session (freeze the content) on the screen while you work on your laptop (invisible for people in the meeting room). Click on the pause icon (reference 1).
- stop sharing. Click on the stop sharing icon (reference 2).

4. Disconnect from the meeting room by clicking the “leave room” icon on the upper left corner.

or

when you walk away from the meeting room the app will show a message indicating you probably left the meeting room and you are still connected to the screen.

ClickShare Desktop app in a meeting room

With just one click in the ClickShare App you join the next virtual meeting on your agenda. Your Outlook calendar automatically synchronizes with the ClickShare App. The next Microsoft Teams meeting on your agenda is shown in the ClickShare App: join that call with just one click, your Teams App will open automatically and your call will start immediately. The same is true for your Zoom, Webex or other calls as well.

One click to share your content. Start sharing content in a Microsoft Teams, Zoom or Webex call and ClickShare automatically shares the same content to the meeting room display.

For more info about calendar integration, see [“ClickShare Desktop App Calendar”, page 28](#).

Joining a conference

When using Outlook for creating appointments or invites, you will get an immediate overview in the ClickShare Desktop app of your next meetings.

Just click to join your next call whether in Teams, Zoom or WebEx. The appropriate application will open automatically.

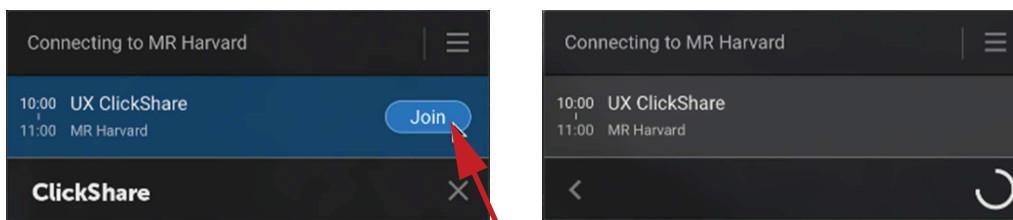


Image 3–6

3.3 Basic Use, with Button



Button is optional for C-5.



Before you can use the Button, pair your Button to the Base Unit. See [“Pairing the \(optional\) Button”, page 38](#) for more information.

Basic functionality when using the Button

When entering a meeting room equipped with ClickShare and if the display is not in screensaver mode, the ClickShare wallpaper is shown on the display. The content of the wallpaper depends on the setup.

Starting to use ClickShare with the optional Button is now very simple.

To start using device with a Button

1. Take a Button and insert the Button into a USB port of your laptop. Depending on the USB port on your laptop a convertor must be used. This convertor is not delivered by Barco.

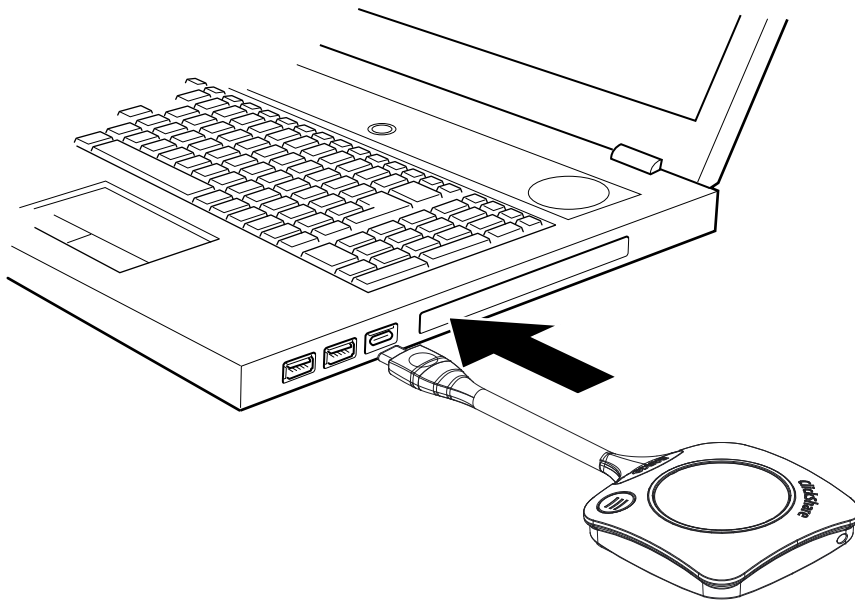


Image 3–7

The white ring on the Button is filling up. When totally filled up it goes to static white and is ready to share or it starts blinking to indicate that you have to start clickshare.exe on your computer.

On your laptop a new drive appears.

Different situations are possible now:

- Nothing installed, LED ring fills up and starts flashing, indicating that the executable needs to be started by the user. Double-click the ClickShare application.
- For Windows environment: when connected to internet, driver will be installed and the executable will be started by the driver.
- For Mac environment: CD-ROM drive will appear, open it and launch the application to get started.
- A launcher or the ClickShare desktop app is preinstalled on your laptop (downloaded from the Base Unit or Barco website, or deployed company-wide by your IT department). ClickShare is immediately available. To continue, go to step 3.

In the meanwhile a *Preparing the meeting room...* window is displayed.

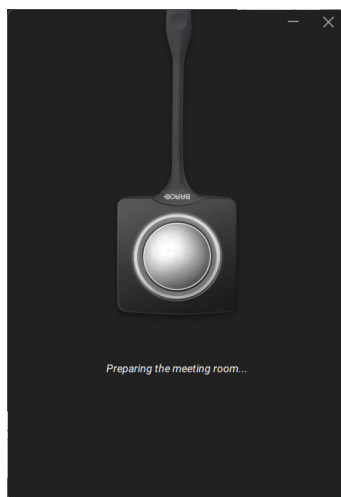


Image 3–8

2. The application is started

When the system is ready for use, the share window appears with the message Ready to share to <ClickShare name>

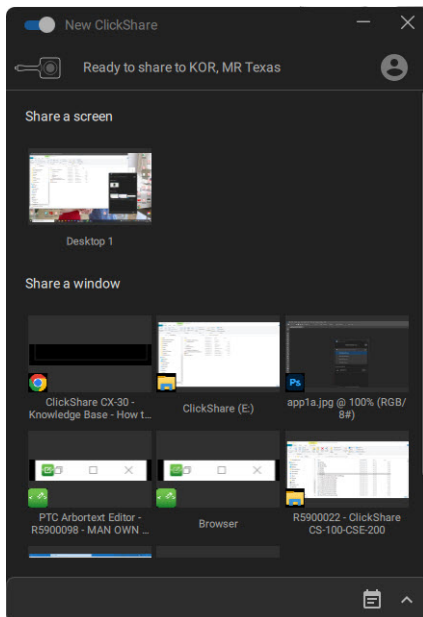


Image 3–9

The LEDs of the Button are static white.

The peripherals such as USB camera, echo cancelling audio device, etc. can now be used in the tool of your preference on your device.

Your screen or a typical application can be shared.

3. There are now 2 ways to start sharing:
 - by clicking on the Button.
 - by clicking on your screen or application in the app window.

When clicking on the Button, the LEDs of the Button become static red and your display is shared.

When selecting in the app, your choice will be shared.

When audio is enabled on the ClickShare Base Unit, the audio of your laptop is also available on the audio output of the Base Unit, and it will be played via the meeting room audio system.

When a USB echo cancelling audio device is connected to the Base Unit, all audio, content audio and speaker audio is played via the speakerphone system.

A pause and stop sharing indication is made in the app window and the window will be minimized.

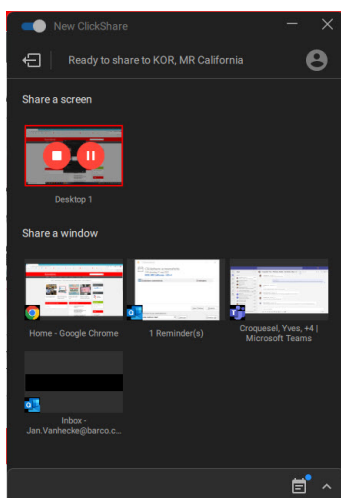


Image 3–10

ClickShare automatically scales the content of your screen/application to the resolution of the meeting room display. The aspect ratio of your screen is maintained to make sure the proportions are correct.

4. To freeze the content on the screen while you look up something on your PC, just click on freeze icon (reference 1) in the shared window. The icon will change to a release icon.

To resume the content sharing, click on that release icon.

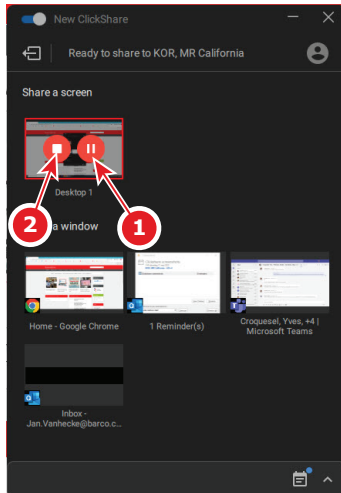


Image 3–11

5. To remove your content from the display, click the Button again or click on the stop sharing icon (reference 2 on [Image 3–11](#)) in the app window.

The LEDs of the Button become static white.

6. When leaving the meeting room, unplug the Button from your laptop or click on the exit icon on the upper left corner.

When there was no installation when starting with the Button, no trace of the ClickShare application is left on your laptop.



As second user can replace the current presenter with a long press on his Button.

3.4 ClickShare Desktop App Calendar

About calendar

Once the ClickShare Desktop App is installed, it will show you the upcoming and ongoing meetings you can join, based on your personal calendar. Depending on the type of meeting and its location information, you'll be able to connect to the meeting room and/or join the conference call linked to the meeting with one click.

By default, the One-Click Join experience is enabled and the ClickShare Desktop App connects to the Microsoft Outlook client running on your computer to retrieve the relevant meeting information. It does this within the active Windows session and only displays limited meeting information in the App. No meeting information is stored on your computer or processed anywhere else.

Enabling or disabling the integration

1. Open the ClickShare Desktop App.
2. Click on the menu icon on the right top to open the menu.

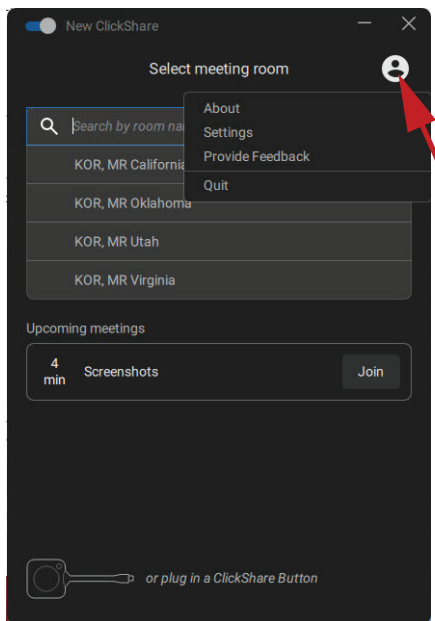


Image 3–12

3. Click on the **Settings**.

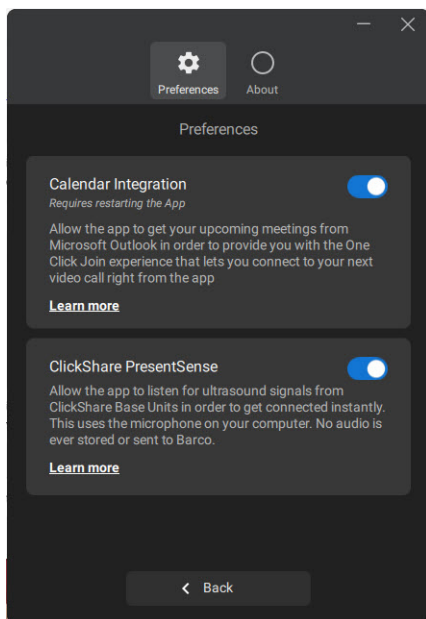


Image 3–13

4. Change the toggle next to calendar integration.

To the right: calendar integrated (default value)

To the left: calendar not integrated

Note: a restart of the ClickShare Desktop App is required after re-enabling the calendar integration.

3.5 Calendar integration



Calendar integration in the Base Unit can only be done in XMS cloud.

About the calendar view

Only in combination with Microsoft Office 365, the wall paper shows if a meeting room is available or not.

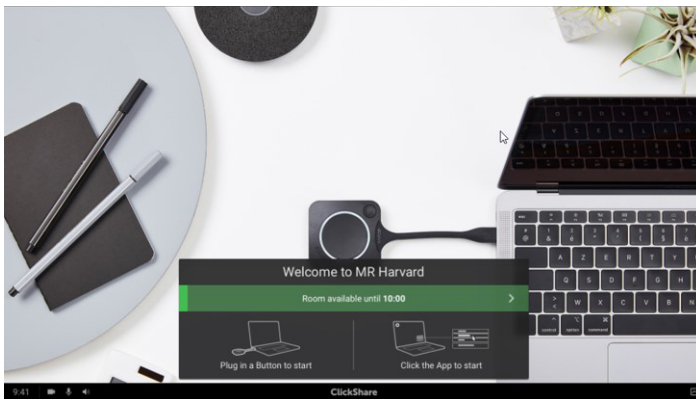


Image 3-14

When available, it is indicated with a green banner with the indication until when it is available.

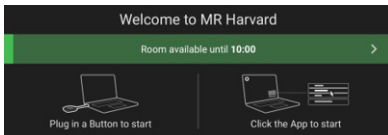


Image 3-15

When it is occupied is indicated with a red banner with the indication until when the room is book and by who the room is booked.

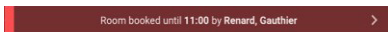


Image 3-16

3.6 Walk in and connect with ClickShare PresentSense™

Introduction

PresentSense makes seamless connection to the room's Base Unit possible as soon as you wak into the room. The ClickShare desktop app on you PC detects the Base Unit in the room and asks you to click Connect to connect to the room's Base Unit. There is no longer need to search through a list of nearby meeting rooms.



ClickShare PresentSense requires version 4.5 or higher of the ClickShare desktop app to be installed on your computer.

This function is only available for Windows™.

How it works

The ClickShare Base Unit in the meeting room sends out an ultrasound signal, that is picked up by the ClickShare Desktop App through your devices' microphone. Because of the characteristics of sound, that signal will only be available within the meeting room, ensuring you're in the room when the App picks up the signal.

Because ClickShare PresentSense uses your devices' microphone to detect the ultrasound signal you will need to allow the ClickShare Desktop App to use the microphone before it can start detecting the PresentSense signal.

How to allow the use of your microphone

1. Open your ClickShare Desktop App and click on the menu item.

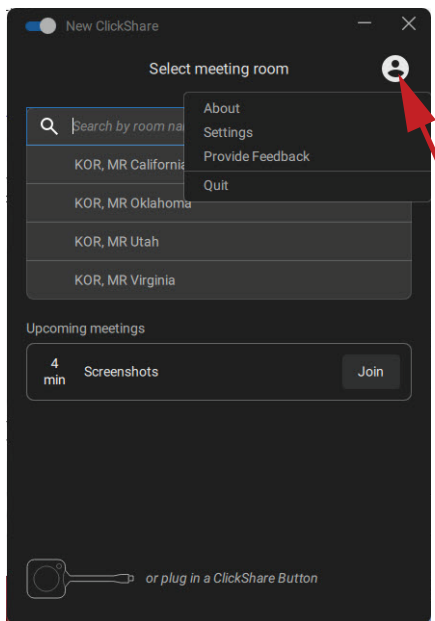


Image 3–17

2. Click on *Settings*.
3. Toggle the ClickShare PresentSense to the right to activate.

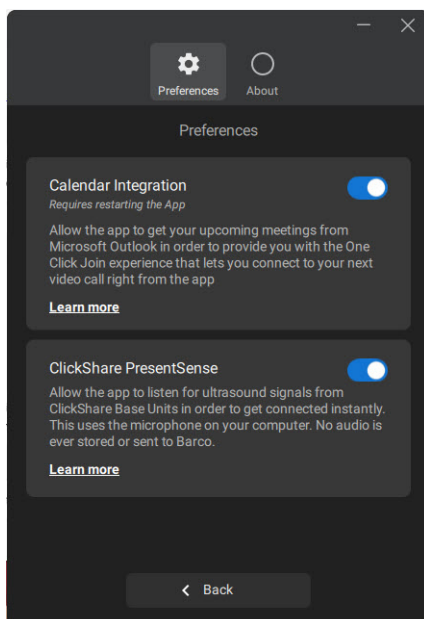


Image 3–18

Back ground color of the toggle becomes blue.

You can revoke this permission at any time by sliding the toggle to the left.

Entering a meeting room

1. Step in a meeting room with ClickShare PresentSense active in the meeting room and in your desktop app.
2. A popup message appears on your screen.

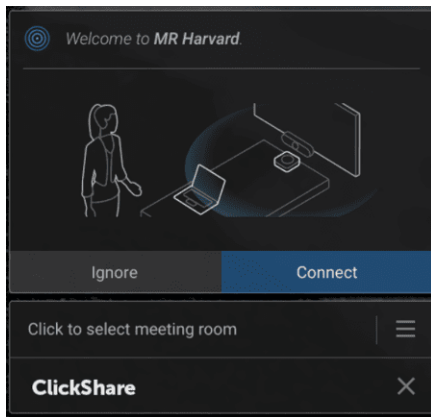


Image 3–19

3. Click **Connect**.

You will be automatically connected to meeting's room Base Unit.

Note: You may be asked to type in the pincode when multiple people walk in and connect at the same time.

Whenever the microphone is in use by ClickShare PresentSense, this is clearly visible in the Windows system tray. By hovering over the microphone icon, you can see which app is using the microphone.

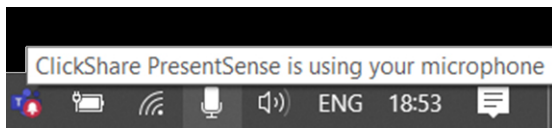


Image 3–20

Walk in without PresentSense active on your desktop app

1. Walk in a meeting room that is sending out the ClickShare PresentSense signal and start sharing content.

A popup message will be displayed to allow access to your microphone.

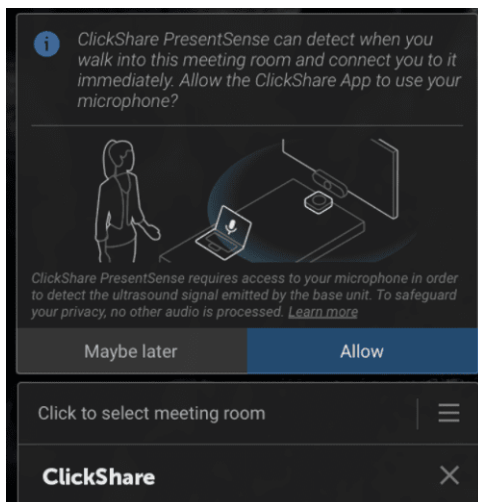


Image 3–21

You have now 2 choices:

- **Allow:** allow to access your microphone and the ClickShare PresentSense function will be enabled when stop sharing. By a next walk in the connection with the Base Unit will be done automatically.
- **Maybe later:** the PresentSense function will not be activated. Next time the popup will be displayed again.

2. Make your choice and click on the corresponding button.

3.7 User Interface

User Interface functionality

When a Button is plugged in or the ClickShare desktop app is running and ready for sharing (not sharing yet), additional functionality (context menu) can be selected via the hamburger menu icon.

Context menu

1. Click on the menu icon on the Ready to share message.

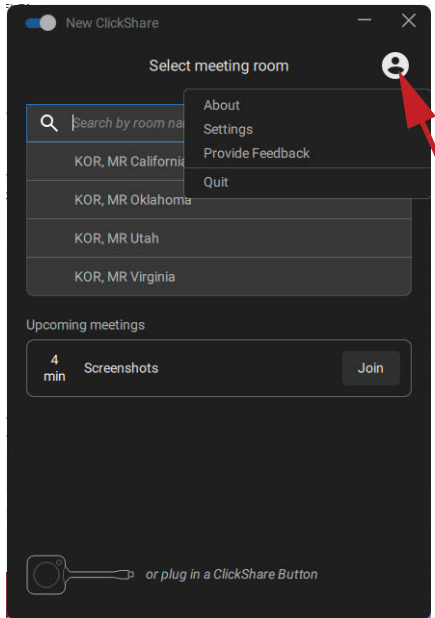


Image 3–22

The context menu appears.

2. From the list, click the action you want to perform.

3.8 Extended desktop

About extended desktop

Depending on your selection, your primary screen or your extended screen will be captured and displayed via ClickShare. That extended screen can be a physical screen or a virtual screen.

The use of the extended desktop functionality does require the extension pack to be installed on your device. More information on the extension pack can be found on the ClickShare Extension pack product page (<https://www.barco.com/en/product/clickshare-extension-pack>).

With extended desktop you can take advantage of both your laptop screen and the central meeting room display. Presentation notes or other material on primary screen will not be displayed to everyone (so-called PowerPoint Presenter mode) or when you want to take notes whilst sharing something else..

Note that the Presenter mode can also be achieved without the use of the extended desktop and one can also choose to share only the application you wish to share in the room via the sharing mode toggle (see “[Share an application](#)”, page 35).

PC with virtual extended screen:



Image 3–23

Primary screen displayed on the PC, extended screen displayed on the meeting room display.



Image 3–24

PC with one extended screen connected. That extended screen will be captured and displayed on the meeting room display.



Image 3–25

PC with two extended screens connected. The first extended screen, screen 2 will always be captured and displayed on the meeting room display.

How to select

1. Click on the menu icon of the Ready to share message.

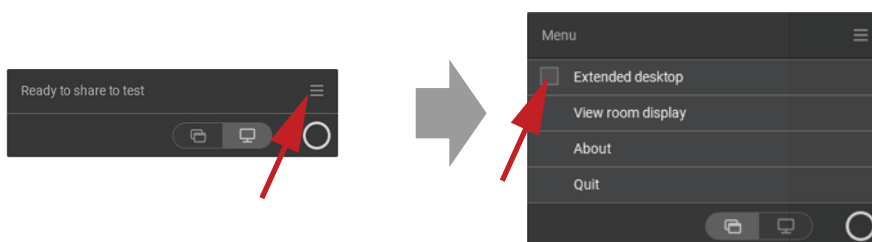


Image 3–26

The content menu opens.

2. Check the check box before Extended desktop.

3.9 Share an application

About sharing an application

When *Share an application* is selected, you will be presented with an overview of open applications on your computer. Once you select an application to share, only this application will be shared on the big screen

How to select via the application window

1. When a Button is plugged in or the ClickShare desktop app is ready to share..

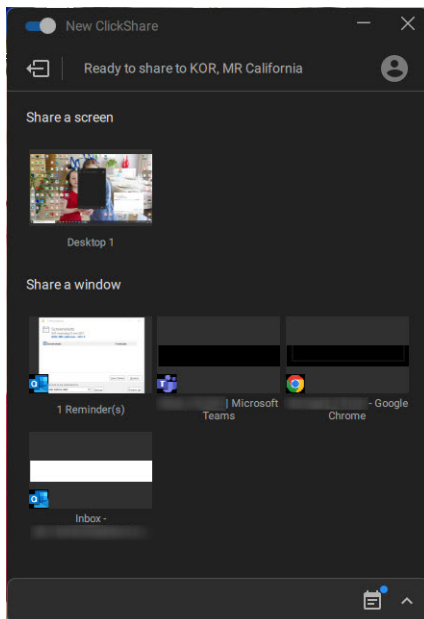


Image 3–27 Ready to share

The last 6 open applications on your computer are displayed.

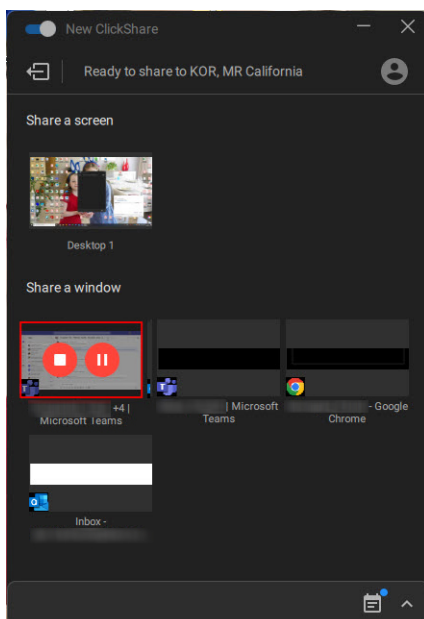


Image 3–28

2. Click on the application to share. A red square indicates the selection.

Only the selected application is shared on the meeting room display.

Via the Quick access button

1. Push the quick access button and click on the *share an application* icon.

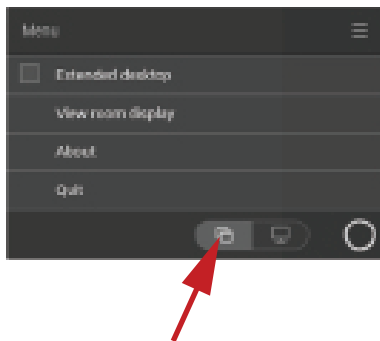


Image 3–29

2. To display an application, select *Share an Application*.
The last 6 open applications on your computer are displayed.

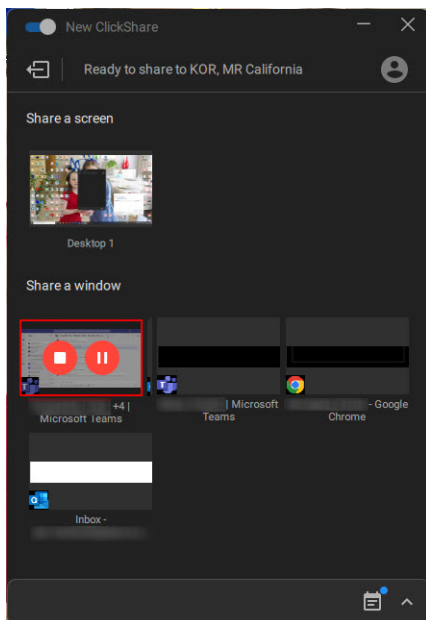


Image 3–30

3. Click on the application to share. A red square indicates the selection.
Only the selected application is shared on the meeting room display.

3.10 Microsoft Office PowerPoint Presenter mode

Overview

To view your speaker notes on your pc when sharing a presentation on the room display, one can make use of the PowerPoint Presenter mode functionality in Microsoft Office PowerPoint without the need for a second (virtual) display.

When sharing a Slide Show using Share an application you will be reminded of the Presenter Mode functionality through a useful notification. This notification remains on screen for 10 seconds and is only shown the first five times you share a Slide Show.

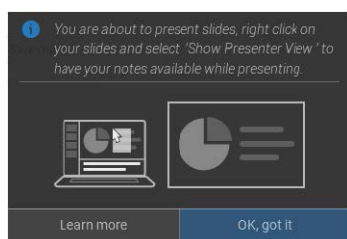


Image 3–31

Presenter mode on Windows

1. Open your PowerPoint and start your Slide Show. This will show your presentation full screen on your PC.
2. With a Button plugged in or the ClickShare app ready to share, select *Share an application* from the hamburger menu.
An overview of the current available application on your laptop will be displayed.
3. Select the PowerPoint Slide Show to share to the meeting room display.
4. On the full screen presentation, right-click on the slide and select Show Presenter View to see speaker notes while sharing the Slide Show to the meeting room display

Presenter mode on macOS

1. Open your PowerPoint and start your Slide Show
2. With a Button plugged in or the ClickShare app ready to share, select *Share an application* from the hamburger menu.
An overview of the current available application on your laptop will be displayed.
3. Select the PowerPoint Slide Show to share to the meeting room display
4. Right-click on the slide and select Use Presenter View to see speaker notes while sharing the Slide Show to the meeting room display

3.11 View room display

About view room display

When connected to a Base Unit, you can access the content which is shown on the meeting room display by selecting *View room display*. When doing so, a new window will open in which you will find an exact copy of what is on the meeting room display. This is useful when e.g. sitting in the back of the room, when you are taking meeting notes or when you wish to share what is shown in the room (by yourself or others) to remote participants in a UC&C call.

How to view

1. With a Button plugged in or the ClickShare desktop app ready, click on the hamburger menu and select View room display.

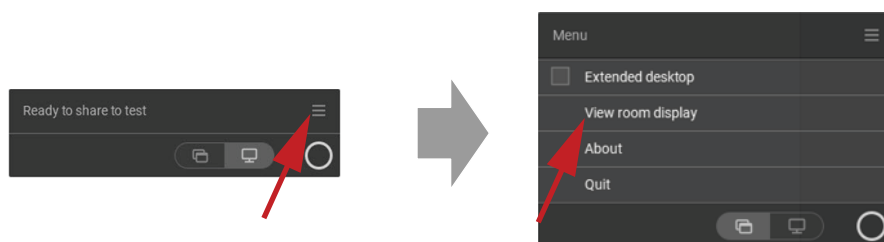


Image 3–32

The content of the meeting room display is transferred to a new window on your laptop. A red eye will be shown at the bottom left on the meeting room display splash screen.



Image 3-33

3.12 Audio configuration

Audio configuration

The connected user must control his own audio signal using the audio configuration of his computer. If he does not want to broadcast his audio signal, he has to mute audio on his computer.

For some operating system, it is necessary to set ClickShare as your default output device. Once you unplug the Button or disconnect via the ClickShare app, the default setting is switched back to the previous setting. The speakerphone selection is also selected.

Set ClickShare as default in Windows

1. Click on the speaker icon in the system tray.
The current setting opens.
2. Click on the up arrow in the upper right corner to open the possible selections.
3. Select *Speakers ClickShare*.

Set ClickShare as default on MAC

1. Click on the Apple logo on the menu bar and select System Preferences..
2. Click on the *Speaker* icon.
3. Select the *Output* tab and activate *ClickShare*.

3.13 Pairing the (optional) Button

Pairing of the (optional) Button with the Base Unit

To be able to use a Button it should be assigned to the Base Unit you are using. This process is called pairing. Each Button will need to be updated and paired before use.

In case you buy additional Buttons or when a Button should be assigned to another Base Unit, the Button needs to be paired (again). The Button software update runs in the background and will not impact users while using the system. When downgrading or updating to an older version of the Base Unit software the Buttons need to be paired manually to update their software.



A Button can only be paired to one Base Unit at a time.
The Button will always make connection to the Base Unit it was last paired to.

Pairing a Button can be done in two ways:

- by plugging the Button to the Base Unit.
- by using the Button Manager application running on your laptop.

To pair a (optional) Button to the Base Unit by plugging in

1. Insert the Button in the USB type-C™ port available on the Base Unit you are using.

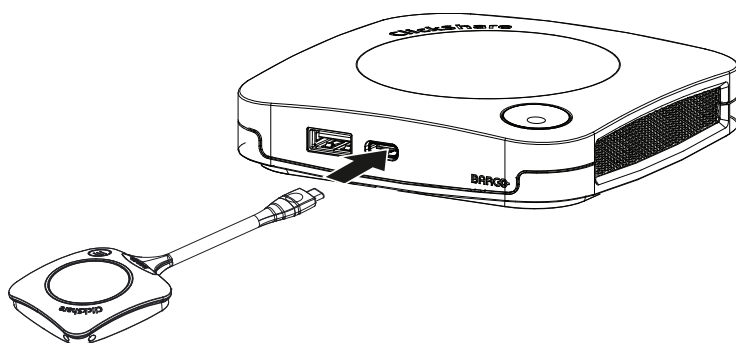


Image 3-34

The Base Unit LED is blinking while the Button LED fills up a circle. This means pairing is in progress.

The Base Unit automatically checks whether the software of the Button is up to date. If not, the Base Unit updates the Button software. This may take more time.

During the pairing and update process, a small status bar is displayed.

The result of the pairing process can be as follows:

- When the LEDs on the Button become green and on static white on the Base Unit, the Button is paired to the Base Unit. You can unplug the Button from the Base Unit.

2. Unplug the Button from the Base Unit.

The Button is now ready for use. Plug in a Button to present.



Image 3-35

3.14 Blackboarding & Annotation



Only available on C-10.

About blackboarding

Blackboarding allows you to use the meeting room's touchscreen as a writing board to write or sketch ideas on. Let creativity flow and have more dynamic meetings. With only one tap on the screen, you can save your real-time brainstorming session and share a copy with all meeting participants connected to the ClickShare Base Unit via the Button or via the ClickShare Desktop App.

With only one tap on the touch screen, you can select the blackboarding functionality. Combining a touch display and a wireless collaboration tool drives the productivity and engagement in your meeting room. With an additional tap on the screen, you can select the 'save' option. Saved sessions can be found on your laptop under c:\Users\username\Documents\clickshare-downloads. Files are never saved on the Button or Base Unit.

About annotation

Annotation gives you the option to add comments directly on presented content via the meeting room's touchscreen. Discuss and make your annotations or notes on the spot, creating an elaborated environment for ideation. With only one tap on the screen, you can save your real-time brainstorming session and share a copy with all meeting participants connected to the ClickShare Base Unit via the Button or via the ClickShare Desktop App.

With only one tap on the touch screen, you can select the annotation functionality. Pick your color and you can start to draw, write, highlight. Combining a touch display and a wireless collaboration tool drives the productivity and engagement in your meeting room. With an additional tap on the screen, you can select the 'save' option. Saved annotations can be found on your laptop under c: \Users \username \Documents \clickshare-downloads. Files are never saved on the Button or Base Unit.

3.14.1 Start the blackboarding or annotation mode

How to start

1. Click on the blackboarding icon in the permanent bar (1).



Image 3-36

The selection menu with *Blackboard* and *Annotation* opens on the current presented content. When nothing is shared, only *Blackboard* will be available in the menu.

2. To start annotation, click on the annotation icon in the permanent bar (2)

No clients should be disconnected. The current shared screen(s) will be captured and used as background. No previous content can be shown again.

3.14.2 Drawing tools

Pen

Click on the Pen icon (3) to start the drawing functionality. Draw with you finger on the screen.



Image 3-37

Erase

Click on the Erase icon (2) to start the erase functionality. Erasing can be done with single finger or with multiple fingers. The eraser grows in size depending on the speed of the movement. The erased parts are indicated with a circular overlay.



Image 3-38

Color

Allows you to switch between the different pen colors (1). The default color is red.

Tap on the Color icon to change the drawing color.

- black
- red
- blue
- green

Tap on the desired color to change the pen color. The current select color in the toolbar will change to the new selection. The current selected is highlighted.

Clear

Click on the Clear icon (3) to clear the current drawing. A warning message “Are you sure you want to clear the page?” will be displayed.


Click on **OK** to clear the content.

Click on **Cancel** to keep the content.

3.14.3 Saving a drawing on a USB stick

How to save

1. Insert a USB stick in one of the USB inputs of the Base Unit.

 **Note:** USB stick must be formatted with FAT32.

2. Click on **Save** icon (reference 4, [Image 3-38](#)).

The current drawing is saved on the USB stick as PDF with as file name the meeting room name and current date.

When saving a blackboard drawing, the white and the black lines are inverted. The white annotations become black and the black annotations become white.

3.14.4 Saving a drawing to connected clients

How to save

1. Click on **Save** icon (reference 4, [Image 3-38](#)).

The Base Unit checks whether there are Buttons connected.

The connected client will receive a pop-up message requesting to save the file on his device.

2. Accept the blackboard file.

The Base Unit will transfer the file to the Button client and the file will be saved on the user's device within the user's home folder. The file will be saved as a PDF file with as file name the meeting room and current date.



When there is also an USB stick (FAT32 formatted) inserted in the Base Unit, the file will be saved on this USB stick at the same time.

3.14.5 Returning to Presenter mode

How to return

1. Click on the **Close** (Cross) button in the lower right corner.

The Base Unit returns to Presenter mode.

The content of the Blackboard is not cleared. When returning to the blackboarding mode, the previous content will be displayed.

The content of the Annotation mode is cleared and cannot be reused when restarting the annotation mode.

3.15 Touch Back



Only available on C-10.

About Touch Back

Touch Back support on your wireless collaboration solution allows you to control any application on your laptop via the touch screen in the room, instead of using a computer mouse or clickers. You can control data with your finger or with a specified stylus. Stay in control of your presentation, and don't let technical limitations interrupt the flow of your meeting anymore.

No need to go back to your laptop or use unreliable clickers to move to the next slide. Simply tap the screen to switch slides. And with a few touches on the screen, you can also open other presentations, share mails or start a video. With one tap on a touch screen, you can also select the blackboarding or annotation functionality. The combination of a touch display and a wireless collaboration tool drives the productivity and engagement in your meeting room.

- It gives you the opportunity to present more freely within the meeting space
- You can start to ideate on content real-time.
- Collaborate more interactive and creatively.
- Get higher engagement from the participants.
- Technical limitations of the room are not hindering the flow of the presentation or meeting.
- It boosts spontaneous collaboration, giving people the opportunity to use the specific extras like easy access to online content, cloud drives or photos, zoom, annotate, blackboarding...

What you need to use Touch Back

- You need a Button successfully paired and updated with the corresponding Base Unit.
- A supported touch panel display. A list of supported displays is listed on Barco's website in "*The ClickShare Supported Touch Panels Whitepaper*".

How to use Touch Back

- Tap once to control your laptop instead of using the computer mouse.
- To right-click, the touchscreen needs to be pressed for about 2-3 seconds long.

- Touchback can be enabled/disabled by touching the icon on the bottom right on the meeting room display

Points to know

- The best performance is achieved by sharing without audio.
- When sharing the extended desktop, a small lag might be observed.
- Native touchscreen functionalities cannot be used in combination with Touch Back. Ideally, they need to be disabled.
- You can disable touch back when presenting by clicking the touch back icon in the permanent bar at the bottom of the display.

3.16 Airplay


About Airplay

Airplay is a protocol that allows wireless streaming between devices of audio, video, device screens and photos. The ClickShare Base Unit can be configured to receive the airplay streaming

Why Airplay

You want to show multiple people your photos and videos or your PowerPoint and Keynote presentation on a big screen? Connect your device to the ClickShare Base Unit which can be configured to receive the Airplay streaming.

How to use Airplay

1. Make sure your device is connected with the ClickShare WiFi in the meeting room.
2. Open the control panel of your device and swipe up from the bottom left of the screen or swipe down from the top right of the screen, depending of your device.
3. Click on  Synchronise display and select the ClickShare device in the meeting room.

For more information about using Airplay with a typical device, consult the user manual of that device.

3.17 Chromecast

About Chromecast

Chromecast is a protocol that allows wireless streaming between devices of audio, video, device screens and photos. The ClickShare Base Unit can be configured to receive the Chromecast streaming.

Why Chromecast

You want to show multiple people your photos and videos or your PowerPoint and Keynote presentation on a big screen? Connect your device to the ClickShare Base Unit which can be configured to receive the Chromecast streaming.

How to use Chromecast

1. Make sure your device is connected with the ClickShare WiFi in the meeting room.
2. Click on the cast-icon to display the content of you device on the meeting room screen.

For more information about using Chromecast with a typical device, consult the user manual of that device.

3.18 Miracast

About Miracast

Miracast enables seamless display of multimedia content between Miracast devices. Miracast allows users to wireless share multimedia, including high-resolution pictures and high-definition (HD) video content between

Wi-Fi devices, even if a Wi-Fi network is not available. Miracast creates its own direct wireless signal between your mobile device and the wireless display receiver (ClickShare Base Unit).

How to use Miracast

1. Miracast should be enabled on the ClickShare Base Unit.
2. Your mobile device needs to be Miracast enabled. Devices like Samsung smartphones or other Android phones, as well as devices that use Windows 8 or 10, typically have the technology built-in.
3. In the settings of your mobile device, open 'wireless display' (name can be different depending on the device type and model). See the device's user guide.
4. Select the ClickShare Base Unit in the meeting room.

Regulatory information

A

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A.1 Product compliance

EN55032-CISPR32 Class B ITE (Information Technology Equipment)

This is a class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

If this equipment does cause interference to radio or television reception, the user may try to correct the interference by one or more of the following measures :

- Re-orientation of the receiving antenna for the radio or television.
- Relocate the equipment with respect to the receiver.
- Plug the equipment into a different outlet so that the equipment and receiver are on different branch circuits.
- Fasten cables connectors to the equipment by mounting screws.

Federal Communication Commission Interference Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio & television reception.

FCC RF Radiation Exposure Statement: This device is capable of operating in 802.11a mode. For 802.11a devices operating in the frequency range of 5.15 - 5.25 GHz, they are restricted for indoor operations to reduce any potential harmful interference for Mobile Satellite Services (MSS) in the US. WIFI Access Points that are capable of allowing your device to operate in 802.11a mode (5.15 - 5.25 GHz band) are optimized for indoor use only. If your WIFI network is capable of operating in this mode, please restrict your WIFI use indoors to not violate federal regulations to protect Mobile Satellite Services.

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Base Unit FCC ID: 2AAED-R9861511

Button FCC ID (model R9861600D01C): 2AAED-R9861600D01

ClickShare Button 2AAED-R9861600D01 has been tested and meets the FCC RF exposure guidelines. The maximum SAR value reported is 1.19 W/kg.

ClickShare Button 2AAED-R9861600D01 should be installed and operated with a minimum distance of 5 mm between the radiator and your body.

FCC responsible: Barco Inc., 3059 Premiere Parkway Suite 400, 30097 Duluth GA, United States, Tel: +1 678 475 8000

For country code selection usage (WLAN devices) :

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Canada, Industry Canada (IC) Notices

This device complies with Industry Canada licence-exempt RSS standard (s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Barco Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Barco Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

Caution: Exposure to Radio Frequency Radiation.

1. To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
2. To comply with RSS 102 RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Base Unit IC: IC: 21559-R9861511

Button IC (model R9861600D01C): 21559-R9861600D01

IC Antenna statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter 23575-R9861511 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Indoor use only warning

Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Certification information (SAR)

This device is also designed to meet the requirements for exposure to radio waves established by the Industry Canada.

The SAR limit adopted by Canada is 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported to the IC for this device type complies with this limit.

The highest SAR value reported to the IC for this device type when using in portable exposure conditions is 1.15 W/kg.

Canada, avis d'Industry Canada (IC)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de

brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil Barco est inférieure à la limite d'exposition aux fréquences radio d'Industrie Canada (IC). Utilisez l'appareil de sans fil Barco de façon à minimiser les contacts humains lors du fonctionnement normal.

Avertissement: L'exposition aux rayonnements fréquences radio

1. Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.
2. Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

IC Base Unit: 23575-R9861511

IC Button (modèle R9861600D01C): 21559-R9861600D01

Déclaration d'antenne d'Industrie Canada (IC)

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio 23575-R9861511 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Utilisation à l'intérieur seulement

La bande 5 150-5 250 MHz est réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Informations de certification (DAS)

Cet appareil est également conçu pour satisfaire aux exigences concernant l'exposition aux ondes radioélectriques établies par Industrie Canada.

Le seuil du DAS adopté par le Canada est de 1.6 W/kg pour 1g de tissu. La plus grande valeur de DAS signalée à IC pour ce type d'appareil ne dépasse pas ce seuil.

La valeur maximale de DAS signalée à IC pour ce type d'appareil lors du test dans des conditions d'exposition portative est de 1.15 W/kg.

A.2 Open source software provisions

Open Source Software provisions

This product contains software components released under an Open Source license. A copy of the source code is available on request by contacting your Barco customer support representative.

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You acknowledge living up to the conditions of each separate Open Source Software license.

In the development of the Software, the following Open Source Software components have been used:

PACKAGE	VERSION	SOURCE SITE
alsa-lib	1.2.4	https://www.alsa-project.org/files/pub/lib
alsa-plugins	1.1.1	ftp://ftp.alsa-project.org/pub/plugins
libsamplerate	0.1.9	http://www.mega-nerd.com/SRC
libsndfile	1.0.28	http://www.mega-nerd.com/libsndfile/files
alsa-utils	1.2.4	https://www.alsa-project.org/files/pub/utils
ncurses	6.1	http://ftpmirror.gnu.org/ncurses
avahi	0.8	https://github.com/lathiat/avahi/releases/download/v0.8
dbus	1.12.22	https://dbus.freedesktop.org/releases/dbus
expat	2.4.7	http://downloads.sourceforge.net/project/expat/expat/2.4.7
libselenium	3.1	https://github.com/SELinuxProject/selinux/releases/download/20200710
libsepol	3.1	https://github.com/SELinuxProject/selinux/releases/download/20200710
pcre	8.44	http://downloads.sourceforge.net/project/pcre/pcre/8.44
python3	3.9.9	https://python.org/ftp/python/3.9.9
bluez5_utils-headers	5.62	https://cdn.kernel.org/pub/linux/bluetooth
libffi	3.3	https://github.com/libffi/libffi/archive/v3.3
libzlib	1.2.11	http://www.zlib.net
libcap	2.48	https://www.kernel.org/pub/linux/libs/security/linux-privs/libcap2
libdaemon	0.14	http://0pointer.de/lennart/projects/libdaemon
libevent	2.1.12	https://github.com/libevent/libevent/releases/download/release-2.1.12-stable
libopenssl	1.1.1n	https://www.openssl.org/source
glib2	2.66.8	http://ftp.gnome.org/pub/gnome/sources/glib/2.66
elfutils	0.181	https://sourceware.org/elfutils/ftp/0.181
bzip2	1.0.8	https://sourceware.org/pub/bzip2
util-linux-libs	2.37.4	https://cdn.kernel.org/pub/linux/utils/util-linux/v2.37
bc	1.07.1	http://ftp.gnu.org/gnu/bc
bind	9.11.36	https://ftp.isc.org/isc/bind9/9.11.36
libxml2	2.9.13	http://ftp.gnome.org/pub/gnome/sources/libxml2/2.9
readline	8.1	http://ftpmirror.gnu.org/readline

PACKAGE	VERSION	SOURCE SITE
bitstream	1.5	https://get.videolan.org/bitstream/1.5
bluez5_utils	5.62	https://cdn.kernel.org/pub/linux/bluetooth
libical	1.0.1	https://github.com/libical/libical/releases/download/v1.0.1
eudev	3.2.9	http://dev.gentoo.org/~blueness/eudev
kmod	28	https://cdn.kernel.org/pub/linux/utils/kernel/kmod
bridge-utils	1.7.1	https://cdn.kernel.org/pub/linux/utils/net/bridge-utils
busybox	1.33.2	https://www.busybox.net/downloads
dosfstools	4.1	https://github.com/dosfstools/dosfstools/releases/download/v4.1
e2fsprogs	1.45.6	https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.45.6
util-linux	2.37.4	https://cdn.kernel.org/pub/linux/utils/util-linux/v2.37
file	5.38	ftp://ftp.astron.com/pub/file
linux-pam	1.5.1	https://github.com/linux-pam/linux-pam/releases/download/v1.5.1
flex	2.6.4	https://github.com/westes/flex/files/981163
pcre2	10.37	https://github.com/PhilipHazel/pcre2/releases/download/pcre2-10.37
iproute2	5.7.0	https://cdn.kernel.org/pub/linux/utils/net/iproute2
iptables	1.8.6	https://netfilter.org/projects/iptables/files
netcat	0.7.1	http://downloads.sourceforge.net/project/netcat/netcat/0.7.1
ntp	4.2.8p15	https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2
libedit	20191231-3.1	http://www.thrysoee.dk/editline
libbsd	0.10.0	https://libbsd.freedesktop.org/releases
pciutils	3.7.0	https://cdn.kernel.org/pub/software/utils/pciutils
start-stop-daemon	1.18.10	http://snapshot.debian.org/archive/debian/20160731T221931Z/pool/main/d/dpkg
unzip	6.0	https://snapshot.debian.org/archive/debian/20210110T204103Z/pool/main/u/unzip
usbutils	013	https://cdn.kernel.org/pub/linux/utils/usb/usbutils
libusb	1.0.24	https://github.com/libusb/libusb/releases/download/v1.0.24
c-ares	1.17.2	http://c-ares.haxx.se/download
ca-certificates	20210119	https://snapshot.debian.org/archive/debian/20210325T091936Z/pool/main/c/ca-certificates
cairo	1.16.0	http://cairographics.org/releases
fontconfig	2.13.1	http://fontconfig.org/release
freetype	2.10.4	http://download.savannah.gnu.org/releases/freetype
libpng	1.6.37	http://downloads.sourceforge.net/project/libpng/libpng16/1.6.37

PACKAGE	VERSION	SOURCE SITE
libdrm	2.4.104	https://dri.freedesktop.org/libdrm
libpthread-stubs	0.4	http://xcb.freedesktop.org/dist
valgrind	3.16.1	https://sourceware.org/pub/valgrind
pixman	0.40.0	https://xorg.freedesktop.org/releases/individual/lib
wayland	1.18.0	https://wayland.freedesktop.org/releases
collectd	5.12.0	https://github.com/collectd/collectd/releases/download/collectd-5.12.0
libgcrypt	1.9.4	https://gnupg.org/ftp/gcrypt/libgcrypt
libgpg-error	1.41	https://www.gnupg.org/ftp/gcrypt/libgpg-error
lm-sensors	3.6.0	https://github.com/lm-sensors/lm-sensors/archive/V3-6-0
crda	4.14	https://git.kernel.org/pub/scm/linux/kernel/git/mcgrof/crda.git/snapshot
libnl	3.5.0	https://github.com/thom311/libnl/releases/download/libnl3_5_0
cryptsetup	2.3.6	https://cdn.kernel.org/pub/linux/utils/cryptsetup/v2.3
json-c	0.15	https://s3.amazonaws.com/json-c_releases/releases
libargon2	20190702	https://github.com/P-H-C/phc-winner-argon2/archive/20190702
lvm2	2.02.185	http://sources.redhat.com/pub/lvm2
libaio	0.3.112	https://releases.pagure.org/libaio
popt	1.18	http://ftp.rpm.org/popt/releases/popt-1.x
dhcp	4.4.2-P1	http://ftp.isc.org/isc/dhcp/4.4.2-P1
dnsmasq	2.85	http://thekelleys.org.uk/dnsmasq
dropbear	2020.81	https://matt.ucc.asn.au/dropbear/releases
dvblast	3.4	https://get.videolan.org/dvblast/3.4
libev	4.27	http://dist.schmorp.de/libev/Attic
faad2	2.10.0	https://github.com/knik0/faad2/archive/2_10_0
fbv	1.0b	http://s-tech.elsat.net.pl/fbv
giflib	5.2.1	http://downloads.sourceforge.net/project/giflib
jpeg-turbo	2.0.6	https://downloads.sourceforge.net/project/libjpeg-turbo/2.0.6
ffmpeg	4.3.3	http://ffmpeg.org/releases
libv4l	1.20.0	https://linuxtv.org/downloads/v4l-utils
qt5base	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
icu	69-1	https://github.com/unicode-org/icu/releases/download/release-69-1
libinput	1.16.4	http://www.freedesktop.org/software/libinput
libevdev	1.11.0	http://www.freedesktop.org/software/libevdev
mtdev	1.1.6	http://bitmath.org/code/mtdev

PACKAGE	VERSION	SOURCE SITE
libva	2.10.0	https://github.com/intel/libva/releases/download/2.10.0
libvorbis	1.3.7	https://downloads.xiph.org/releases/vorbis
libogg	1.3.4	http://downloads.xiph.org/releases/ogg
libvpx	1.9.0	https://github.com/webmproject/libvpx/archive/v1.9.0
opus	1.3.1	https://downloads.xiph.org/releases/opus
speex	1.2.0	https://downloads.xiph.org/releases/speex
speexdsp	SpeexDSP-1.2.0	https://gitlab.xiph.org/xiph/speexdsp.git
fmt	7.1.3	https://github.com/fmtlib/fmt/releases/download/7.1.3
gdb	10.2	http://ftpmirror.gnu.org/gdb
gnupg2	2.2.32	https://gnupg.org/ftp/gcrypt/gnupg
libassuan	2.5.4	ftp://ftp.gnupg.org/gcrypt/libassuan
libksba	1.5.0	ftp://ftp.gnupg.org/gcrypt/libksba
libnpth	1.6	https://www.gnupg.org/ftp/gcrypt/npth
sqlite	3.34.1	https://www.sqlite.org/2021
gssdp	1.0.2	http://ftp.gnome.org/pub/gnome/sources/gssdp/1.0
libsoup	2.62.3	http://ftp.gnome.org/pub/gnome/sources/libsoup/2.62
gst1-libav	1.18.6	https://gstreamer.freedesktop.org/src/gst-libav
gst1-plugins-base	1.18.6	https://gstreamer.freedesktop.org/src/gst-plugins-base
gstreamer1	1.18.6	https://gstreamer.freedesktop.org/src/gstreamer
gst1-plugins-bad	1.18.6	https://gstreamer.freedesktop.org/src/gst-plugins-bad
wayland-protocols	1.20	https://wayland.freedesktop.org/releases
gst1-plugins-good	1.18.6	https://gstreamer.freedesktop.org/src/gst-plugins-good
libgudev	233	http://ftp.gnome.org/pub/GNOME/sources/libgudev/233
gst1-vaapi	1.18.6	https://gstreamer.freedesktop.org/src/gstreamer-vaapi
htop	ce6d60e7-def146c13d0b8b-ca4642e7401a0-a8995	https://github.com/htop-dev/htop/archive/ce6d60e7def146c13d0b8bca4642e7401a0a8995
hwdata	0.342	https://github.com/vcrhonek/hwdata/archive/v0.342
input-event-daemon	0.1.3	https://github.com/gandro/input-event-daemon/archive/v0.1.3
iperf	2.0.13	http://downloads.sourceforge.net/project/iperf2
iperf3	3.9	https://downloads.es.net/pub/iperf
iw	5.9	https://cdn.kernel.org/pub/software/network/iw
jansson	2.13.1	http://www.digip.org/jansson/releases

PACKAGE	VERSION	SOURCE SITE
jose	10	https://github.com/latchset/jose/releases/download/v10
jq	a17dd3248a666d01-be75f6b16-be37e80e20b0954	https://github.com/stedolan/jq/archive/a17dd3248a666d01be75f6b16be37e80e20b0954
json-for-modern-cpp	3.9.0	https://github.com/nlohmann/json/archive/v3.9.0
jsoncpp	1.9.4	https://github.com/open-source-parsers/jsoncpp/archive/1.9.4
libarchive	3.5.3	https://www.libarchive.de/downloads
libconfig	1.7.3	https://github.com/hyperrealm/libconfig/releases/download/v1.7.3
libcurl	7.79.1	https://curl.se/download
nghttp2	1.41.0	https://github.com/nghttp2/nghttp2/releases/download/v1.41.0
libestr	0.1.11	http://libestr.adiscon.com/files/download
libfastjson	0.99.9	https://github.com/rsyslog/libfastjson/archive/v0.99.9
liblogging	1.0.6	http://download.rsyslog.com/liblogging
libnspr	4.32	https://ftp.mozilla.org/pub/mozilla.org/nspr/releases/v4.32/src
libnss	3.68.1	https://ftp.mozilla.org/pub/mozilla.org/security/nss/releases/NSS_3_68_1_RTm/src
libopusenc	0.2.1	https://downloads.xiph.org/releases/opus
libpcap	1.10.1	https://www.tcpdump.org/release
libqrencode	4.1.1	http://fukuchi.org/works/qrencode
libsha1	0.3	https://github.com/dottedmag/libsha1/archive/0.3
libtool	2.4.6	http://ftpmirror.gnu.org/libtool
libuv	1.40.0	https://github.com/libuv/libuv/archive/v1.40.0
libxkbcommon	1.0.3	http://xkbcommon.org/download
libyaml	0.2.5	http://pyyaml.org/download/libyaml
libzip	1.7.3	https://libzip.org/download
lighttpd	1.4.58	http://download.lighttpd.net/lighttpd/releases-1.4.x
logrotate	3.18.0	https://github.com/logrotate/logrotate/releases/download/3.18.0
memtester	4.5.0	http://pyropus.ca/software/memtester/old-versions
monit	5.26.0	http://mmonit.com/monit/dist
net-snmp	5.9	https://downloads.sourceforge.net/project/net-snmp/net-snmp/5.9
nodejs	12.22.9	http://nodejs.org/dist/v12.22.9
opkg	0.4.2	http://downloads.yoctoproject.org/releases/opkg
opus-tools	0.2	https://downloads.xiph.org/releases/opus
opusfile	0.12	https://downloads.xiph.org/releases/opus

PACKAGE	VERSION	SOURCE SITE
php	7.4.28	http://www.php.net/distributions
portaudio	v190600_20161030	http://www.portaudio.com/archives
powertop	2.13	https://01.org/sites/default/files/downloads
protobuf	3.14.0	https://github.com/protocolbuffers/protobuf/releases/download/v3.14.0
python-pyyaml	5.4.1	https://files.pythonhosted.org/packages/a0/a4/d63f2d7597e1a4b55aa3b4d6c5b029991d3b824b5bd331af8-d4ab1ed687d
python-serial	3.5	https://files.pythonhosted.org/packages/1e/7d/ae3f0a63f41e4d2f6cb66a5b57197850f919f59e558159a4d-d3a818f5082
qt5declarative	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5graphical-effects	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5imageformats	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5multimedia	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5quickcontrols	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5quickcontrols2	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5serialport	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5svg	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5tools	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5webchannel	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5websockets	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
qt5webengine	5.15.2	https://download.qt.io/archive/qt/5.15/5.15.2/submodules
webp	1.2.0	http://downloads.webmproject.org/releases/webp
ramspeed	2.6.0	http://www.alasir.com/software/ramspeed
rsync	3.1.3	http://rsync.samba.org/ftp/rsync/src
rsyslog	8.2010.0	http://rsyslog.com/files/download/rsyslog
sox	7524160b29a476f7-e87bc14fddf12d349-f9a3c5e	git://git.code.sf.net/p/sox/code
strace	5.10	https://strace.io/files/5.10
tcpdump	4.99.1	https://www.tcpdump.org/release
tpm-tools	1.3.9.1	http://downloads.sourceforge.net/project/trousers/tpm-tools/1.3.9.1
trousers	0.3.15	http://downloads.sourceforge.net/project/trousers/trousers/0.3.15
tzdata	2021a	https://www.iana.org/time-zones/repository/releases
weston	9.0.0	https://wayland.freedesktop.org/releases

PACKAGE	VERSION	SOURCE SITE
wireless-regdb	2022.02.18	https://cdn.kernel.org/pub/software/network/wireless-regdb
wireless_tools	30.pre9	https://hewlettpackard.github.io/wireless-tools
wpa_supplicant	2.9	http://w1.fi/releases
xkeyboard-config	2.31	https://www.x.org/releases/individual/data/xkeyboard-config
zip	3.0	ftp://ftp.info-zip.org/pub/infozip/src
ta-arm-eabi	5_4-2016q3-20160926	https://launchpad.net/gcc-arm-embedded/5.0/5-2016-q3-update/+download
arphic-uming-fonts	20080216	http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming
dejavu-fonts	2.34	http://downloads.sourceforge.net/project/dejavu/dejavu/2.34
sazanami-fonts	20040629	http://sourceforge.jp/projects/efont/downloads/10087
splashutils	1.5.4.4	http://dev.gentoo.org/~spock/projects/gensplash/archive
unfonts	1.0	http://kldp.net/frs/download.php/1425
mmc-utils	d40ec535b9d4e4-c974e8c2fbfb422c-d0348cc5e8	git://git.kernel.org/pub/scm/linux/kernel/git/cjb/mmc-utils.git
json	1.8.4-cs2	http://json.org/
flexnet	1.0.5	https://www.flexerasoftware.com/monetize/products/flexnet-licensing.html
qca6174a-30	4.5.25.38	https://source.codeaurora.org/external/wlan/qcacld-2.0
wpa_supplicant	2bbc5a2b092-c4a1330b19070672-c5f9d6ade8fbd	http://w1.fi/hostap.git
wpa_passphrase	2bbc5a2b092-c4a1330b19070672-c5f9d6ade8fbd	http://w1.fi/hostap.git
wpa_cli	2bbc5a2b092-c4a1330b19070672-c5f9d6ade8fbd	http://w1.fi/hostap.git
hostapd	2bbc5a2b092-c4a1330b19070672-c5f9d6ade8fbd	http://w1.fi/hostap.git
hostapd_cli	2bbc5a2b092-c4a1330b19070672-c5f9d6ade8fbd	http://w1.fi/hostap.git
qca2066-10	515f4ebab06d1-f0171b8c60-b9250100e9420e627	https://source.codeaurora.org/external/wlan/qcacld-3.0/
rscodc	1.3	https://sourceforge.net/projects/rscodc/files/rscodc
xz	5.1.1	https://tukaani.org/xz
libsrp	2.1.2	https://github.com/secure-remote-password/stanford-srp/tree/master/libsrp
libfdk-aac	0.1.4	https://github.com/mstorsjo/fdk-aac

PACKAGE	VERSION	SOURCE SITE
libalac	4	https://github.com/macOSforge/alac
azure-iot-c-sdk	2021-06-01	https://github.com/Azure/azure-iot-sdk-c
bcrypt	3.0.8	https://github.com/kelektiv/node.bcrypt.js
body-parser	1.19.0	https://github.com/expressjs/body-parser
bunyan-prettystream	0.1.3	https://github.com/trentm/node-bunyan
bunyan-syslog	0.3.3	https://github.com/trentm/node-bunyan
bunyan	1.8.15	https://github.com/trentm/node-bunyan
cors	2.8.5	https://github.com/expressjs/cors
dbus-next	0.9.2	https://github.com/dbusjs/node-dbus-next
express	4.17.1	https://github.com/expressjs/express
generate-password	1.6.0	https://github.com/brendanashworth/generate-password
isomorphic-fetch	2.2.1	https://github.com/matthew-andrews/isomorphic-fetch
js-yaml	3.14.1	https://github.com/nodeca/js-yaml
microsoft-graph-client	2.0.0	https://github.com/microsoftgraph/msgraph-sdk-javascript
moment	2.29.1	http://momentjs.com/
morgan	1.10.0	https://github.com/expressjs/morgan
multer	1.4.2	https://github.com/expressjs/multer
npm	6.14.11	https://docs.npmjs.com
passport-http	0.3.0	http://github.com/jaredhanson/passport-http
passport	0.4.1	http://github.com/jaredhanson/passport
promise	8.1.0	https://github.com/then/promise
request	2.88.2	https://github.com/request/request
swagger-parser	6.0.5	https://github.com/ApiDevTools/swagger-parser
swagger-ui-express	4.1.6	https://github.com/scottie1984/swagger-ui-express
uboot	f44ca27357563e9e-d43f1ff76d3bd8dd14-f4747e	https://github.com/rockchip-linux/u-boot
linux	be6b516f86109-be1704aa3-e3944443f8465b04-b4	https://github.com/rockchip-linux/kernel
avb-vbmeta	21e95266704e572ced1c633bbc4aea9-f42afa0a5	https://android.googlesource.com/platform/external/avb/+21e95266704e572ced1c633bbc4aea9f42afa0a5/avbtool

PACKAGE	VERSION	SOURCE SITE
bootcontrol	b18c9afdb7-d02e1249cee5cb430-dc9f15a3ccc27	https://github.com/rockchip-linux/avb/tree/master/boot_control
libavb	7617e69a524ac-c1a50a8a98b257-d1374ea6fe4a4	https://github.com/rockchip-linux/avb/tree/master/libavb
libavb-ab	7617e69a524ac-c1a50a8a98b257-d1374ea6fe4a4	https://github.com/rockchip-linux/avb/tree/master/libavb_ab
libavb-user	7617e69a524ac-c1a50a8a98b257-d1374ea6fe4a4	https://github.com/rockchip-linux/avb/tree/master/libavb_user
rockchip-linux-bin	d6676eb02-c8a1b4966df7d8c4b-b203ea25fc98b2	https://github.com/rockchip-linux/bin
rockchip-tee-user	1e3bdb582c52707-d71e5cbe29-ca1064d7c04b696	https://github.com/rockchip-linux/rk_tee_user
rockchip-binary	04e55089bb4bba-de7c50d9b54b5a1c-fa70771cd6	https://github.com/rockchip-linux/rkbin
rockchip-gstreamer1	59c3bdd06-a22844957fe20f47-c998bb8255bedd2	https://github.com/rockchip-linux/gstreamer-rockchip
rockchip-mpp	e2ad911-c00a6e5023e7238-ce750d11c1983b81cf	https://github.com/rockchip-linux/mpp
rockchip-libmali	f226e982386287a4d-f669e2832d9ddd613-d4153b	https://github.com/rockchip-linux/libmali
rockchip-linux-rga	72e7764a9fe358e6a-d50eb1b21176c-c95802c7fb	https://github.com/rockchip-linux/linux-rga
NXP-SDK	2.5.0	https://www.nxp.com/support/developer-resources/software-development-tools/mcuxpresso-software-and-tools/mcuxpresso-software-development-kit-sdk:MCUXpresso-SDK?tab=Design_Tools_Tab
ring-buff	-	https://code.google.com/archive/p/ring-buff
quiet-libcorrect	f5a28c74f-ba7a99736fe49-d3a5243e-ca29517ae9	https://github.com/quiet/libcorrect
quiet-dsp	4951bbbf67a9857d-baab0bc6-fa69801717308109	https://github.com/quiet/quiet-dsp
quiet	b64a058e-d40a49a8ff777bf-b526f2989480eb1ec	https://github.com/quiet/quiet



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