



Installation and User's Guide

Klick & Show K-FX – Item No. [7488000340](https://shop.kindermann.de/erp/webshop/navigationPath/7488000340.html) <

<https://shop.kindermann.de/erp/webshop/navigationPath/7488000340.html>>

Klick & Show K-FX HDMI Kit – Item No. [7488000342](https://shop.kindermann.de/erp/webshop/navigationPath/7488000342.html) <

<https://shop.kindermann.de/erp/webshop/navigationPath/7488000342.html>>

Klick & Show K-FX USB-C Kit – Item No. [7488000343](https://shop.kindermann.de/erp/webshop/navigationPath/7488000343.html) <

<https://shop.kindermann.de/erp/webshop/navigationPath/7488000343.html>>

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<https://kindermann-manuals.com/wp-content/uploads/2022/02/klickandshow-kfx-ubersicht.png>

[DOWNLOAD FIRMWARE < HTTPS://WWW.KLICKANDSHOW.COM/DOWNLOAD-3/KFX-DOWNLOAD/>](https://www.klickandshow.com/download-3/kfx-download/)

In constant effort to improve the product, we reserve the right to change functions or parameters without prior notice or obligation. The latest information can be obtained from your Kindermann dealer.

2. Safety instructions



warning

- Read the instruction manual carefully.
- Carefully unpack the device and pick up the original packaging and packaging material for possible later shipping.
- Follow basic safety precautions to reduce the risk of fires, electric shocks and injuries to people.
- Never open or modify the device. This can lead to electric shocks or burns.
- The product may only be operated with safety low voltage with the supplied power supply.
- The use of consumables or parts that do not meet the product specifications can lead to damage or malfunction.
- For all maintenance work, contact qualified service personnel.
- The system may only be stored and used in dry environments.
- Place the device in a well-ventilated place to avoid damage from overheating.
- To clean this device, do not use liquid or aerosol cleaners.
- Before cleaning, always unplug the power plug from the socket.
- Unplug the power plug if you are not using the device for a long time.

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3. Product description

The Kindermann **Klick & Show** is a wireless presentation system for huddle spaces, meeting and training rooms, classrooms, etc. where a flexible presentation is important. Klick & Show allows the screen of computers, tablets or smartphones to be transmitted wirelessly and presented to a central screen – without lengthy configuration, cables and waiting times. This makes the use of personal devices (BYOD – Bring Your Own Device) child's play.

The click **Klick & Show K-FX** extends the functionality by the use of USB cameras, speakerphones, video soundbars, etc. which are permanently installed in the room and via USB to the Klick & Show K-FX base can be connected. With the PC or notebook, these can be used wirelessly thanks to USB-over-WiFi for conferencing, as if they were directly connected.

This facilitates the collaboration of hybrid teams (collaboration between office and home office or on the go) in video conferences, because each meeting room or huddle space can be used easily and spontaneously with your own UC or video conference account.

There are various transmission paths to choose from, above all the **Klick & Show Transmitter** with HDMI or USB-C interface, which allows the use of Klick & Show make it particularly easy. Both transmitters work to share the screen without installing software. The "**WirelessMedia**" software is required to share the screen without a transmitter and to use the video conferencing functions and is available for Windows or MacOS*. For Android devices, you can find the WirelessMedia2 app for free in the [Google Play Store < https://play.google.com/store/apps/details?id=com.wirelessmedia.wmedia2>](https://play.google.com/store/apps/details?id=com.wirelessmedia.wmedia2). In addition, the generic AirPlay Miracast and ChromeCast protocols are supported for image transmission. These are available directly on the respective platforms without the installation of additional software and are therefore particularly easy and intuitive to use. **Klick & Show** allows the simultaneous display of up to four transmissions in a split screen display.

*The use of the video conferencing function is expected to be made available in Q2/2022 via software update.

**Requirements for USB devices:**

- UAC/UVC profile support
- Video encoding in M-JPEG or YUV format
(Due to the lower amount of data and network load, we recommend the use of cameras that support M-JPEG!)
- Only devices with integrated AEC (Active Echo Cancellation) are supported, e.B. video soundbars, speakerphones, integrated audio room solution with AEC.

3.2 Scope of delivery

Klick & Show K-FX Base ([7488000340](#)) <

<https://shop.kindermann.de/erp/webshop/navigationPath/7488000340.html>>

- 1 Kindermann Klick & Show K-FX Base
- 3 WLAN antennas
- 1 universal power supply for mains voltage 100 – 240 VAC, 12 VDC/3 A, with EU and UK plugs
- 1 Euroblock plug for RS232
- 1 Quick Start Guide Quick Start Guide

Klick & Show K-FX HDMI Kit ([7488000342](#)) <

<https://shop.kindermann.de/erp/webshop/navigationPath/7488000342.html>>

- 1 Kindermann Klick & Show K-FX Base
- 3 WLAN antennas
- 1 universal power supply for mains voltage 100 – 240 VAC, 12 VDC/3 A, with EU and UK plugs

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- 
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 - 3 WLAN antennas
 - 1 universal power supply for mains voltage 100 – 240 VAC, 12 VDC/3 A, with EU and UK plugs
 - 1 Euroblock plug for RS232
 - 1 Quick Start Guide Quick Start Guide
 - 2 Klick & Show USB-C Transmitter

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< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Geraetebeschreibung.jpg> >

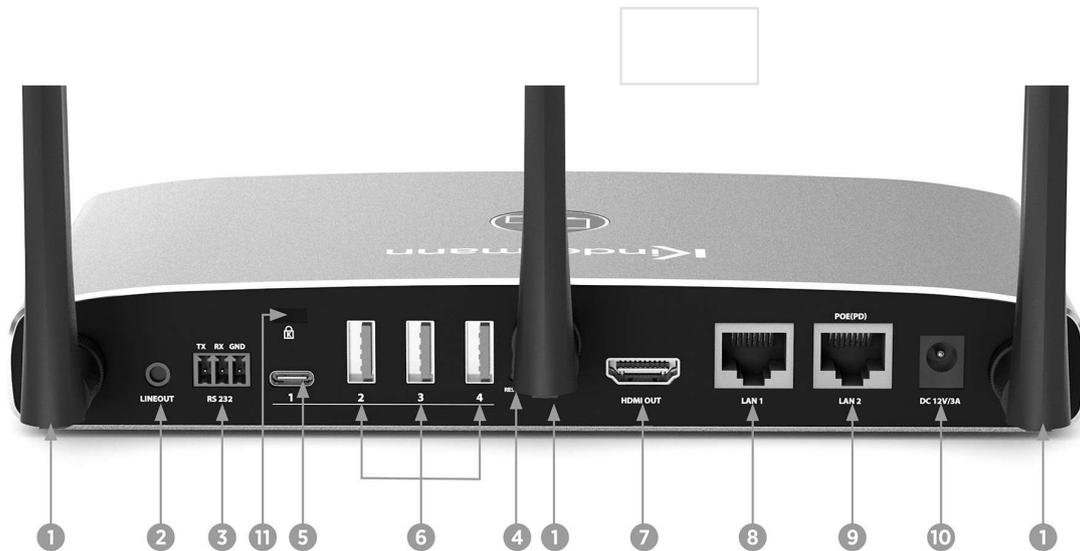
2	transmitter	with integrated WLAN function for wireless transmission of the screen
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4.1 Connectors and buttons on the base device





1	USB-A socket	For pairing the USB-A and HDMI transmitters, for connecting a touch screen, a mouse and for local firmware update via USB stick
2	USB-C socket	For pairing the USB-C transmitters, for connecting a touch screen, a mouse and for local firmware update via USB stick
3	Status LED	Red: Startup process Flashing green: Switched on Constant green: Ready for transmission Turquoise: Active transmission
4	power	Button, for switching on and off to standby



<https://kindermann-manuals.com/wp-content/uploads/2022/04/Anschlusse-Basis-back.jpg>

back



3	RS 232	3-pin terminal (included) for receiving and sending RS-232 commands
4	Reset	Button, resets the device to factory condition
5	USB-C port (USB 3.2 Gen1)	For connecting the USB camera and the USB audio conferencing system, as well as for pairing the transmitters, connecting a touch screen, a mouse and for local firmware update via USB stick
6	3x USB 3.2 Gen1 ports	For connecting the USB camera and the USB audio conferencing system, as well as for pairing the transmitters, connecting a touch screen, a mouse and for local firmware update via USB stick
7	HDMI 2.0	HDMI output for connection to displays, projectors, etc. (Supports HDMI 2.0, 4K60Hz)
8	LAN1	100 Mbps, to connect to a network
9	LAN2	1 Gbps, to connect to a network with PoE (Power over Ethernet) support
10	Mains connection	Connect the supplied power supply to the device and the power supply
11	Security Slot	For anti-theft protection (accessories)



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Transmitter-neu.jpg> >

No.	name	description
1	HDMI transmitter	HDMI connector: transmission of the image signal USB-A connector: For power supply, for transferring touchback information and for pairing with the base
2	USB-C Transmitter	USB-C connector: transmission of the image signal (DisplayPort Alt Mode), power supply and for the transmission of touchback information as well as for pairing with the base



< <https://kindermann-manuals.com/wp-content/uploads/2021/03/dongle-zustaende.jpg> >

- **Permanently green:** Ready for transfer
- **Permanently red:** Active transmission
- **At the base:** Pairing is finished, you can pull the transmitter off the base
- **Flashes green – on the computer:**
 - 100ms AN; 300ms OFF = initialization/connection establishment
 - 500ms AN; 800ms OFF = Connect to WI-FI
 - 200ms AN; Get 800ms AUS = IP
 - 800ms AN; 200ms OFF = establish communication to the base
 - 300ms AN; 100ms OFF = No communication between PC/Laptop and Sensor Button TOUCH



hint:

The Klick & Show HDMI Transmitter can be used on almost any device with HDMI output. If the device does not have a USB port that can provide the power supply, you can use a standard USB power supply or a power bank.

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**hint:**

Please position the base as close as possible to the playback device to avoid problems with HDMI signal transmission.

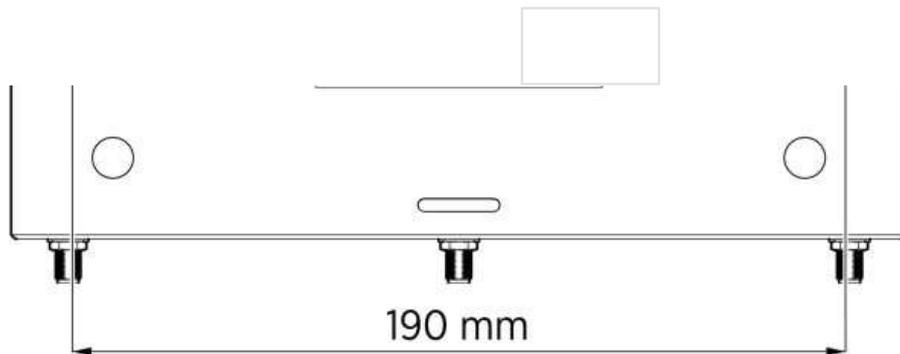
Tools needed for wall mounting:

- A drill (depending on the type and nature of the wall)
- Screwdriver or cordless screwdriver suitable for the mounting screws

Required mounting accessories (not included):

- 2 x screws (recommended head diameter: 7 mm)
- 2 x Matching dowels

Installation:



<https://kindermann-manuals.com/wp-content/uploads/2022/04/Montagegrafik.jpg>

- Drill two holes according to the drawing.
- Turn on the mounting screws. Please leave about 4 mm of space between the wall and the screw head so that the base can be inserted in between.
- Place the base device on the wall so that the screw heads of the two mounting screws reach into the holes of the base. Gently press the device against the wall and slide it down or to the side (depending on the mounting situation).
- If the base is too loose, turn the screws a little further.

Mounting of wlan antennas:

In order to avoid damage during transport, the antennas are supplied loosely and should be installed for reception optimization.

- The antennas should be aligned vertically.
- The antennas should be installed at least 50 cm away from metallic surfaces to avoid unwanted reflections. Likewise, at least a distance of 1 meter to other radio systems in the same frequency band should be maintained (e.B. WLAN access points).
- We recommend a direct line of sight between the base and transmitters and the mobile devices.
- Due to the special radiation properties of the dipole antennas, you should use the Klick & Show Do not install the base directly above or below the transmitters (under/ceiling mounting).

2. Connect the power supply to the base device.
3. Plug the power supply into a suitable socket.



Type G
(UK)



Type C
(EU)

< <https://kindermann-manuals.com/wp-content/uploads/2021/03/stromversorgung-scaled-1.jpg> >



hint:

As soon as the power supply is active, the basic device (boot process) starts.

5.3 Power over Ethernet (PoE):

If the network switch supports **PoE** (Power over Ethernet), the power can also be provided via the network cable on the LAN2 port. The plug-in power supply is then not required.



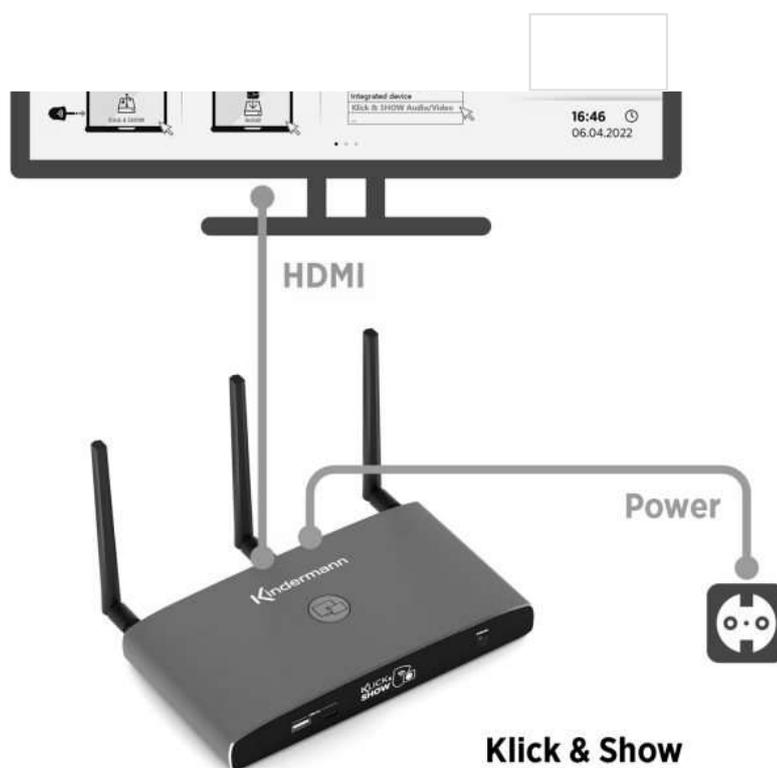
hint:

The base requires a power supply according to PoE 802.3at (PoE+).

5.4 HDMI port

1. Connect the HDMI output of the base through a suitable HDMI cable to a display or projector.

English



<https://kindermann-manuals.com/wp-content/uploads/2022/04/HDMI-Anschluss.jpg>

5.5 Audio connectors

The transmitters transmit the audio signal of the computer together with the video signal to the base device.

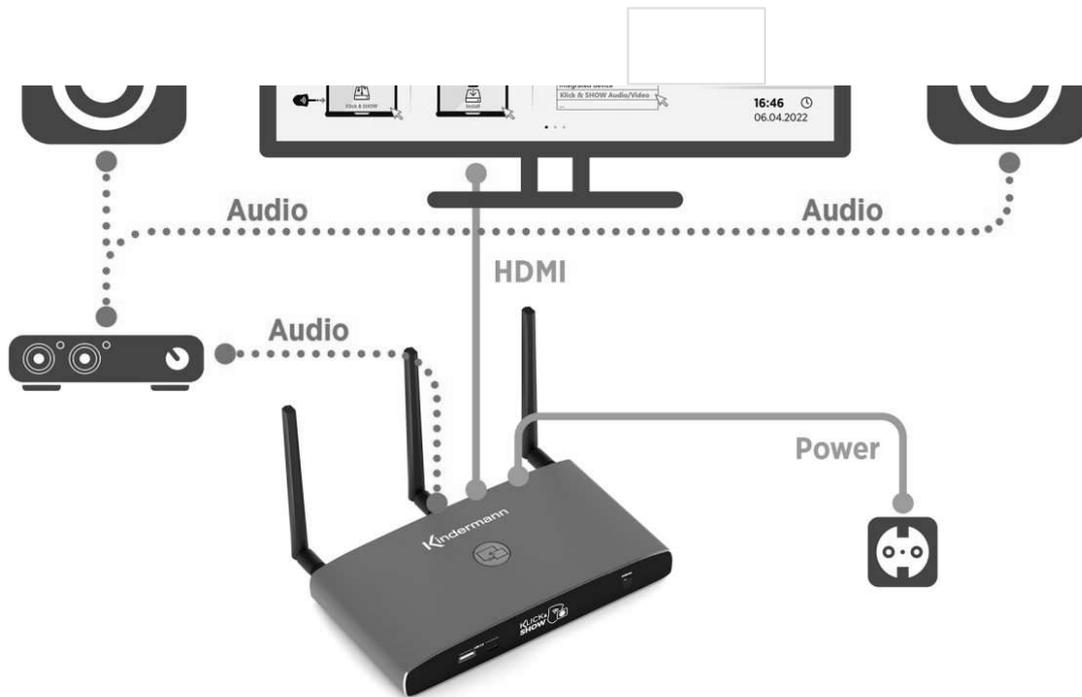
HDMI audio output:

Image and sound are transmitted digitally via HDMI. A playback device, e.B a display with speakers, can play the sound directly.



≤

<https://kindermann-manuals.com/wp-content/uploads/2022/04/Audio-Anschluss-1-scaled.jpg>



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Audio-Anschluss-2.jpg> >

Analog audio output

The sound is output analogously at the jack socket "LINE OUT". Here, active speakers or existing analog audio systems can be connected.

Audio configuration on PC/laptop

In the factory setting shifts Klick & Show Silently silently transmits the computer's internal speaker and transmits the sound to the Klick & Show Base as soon as an image is transmitted.

If the transmitter is disconnected, the computer's previous audio configuration is restored.

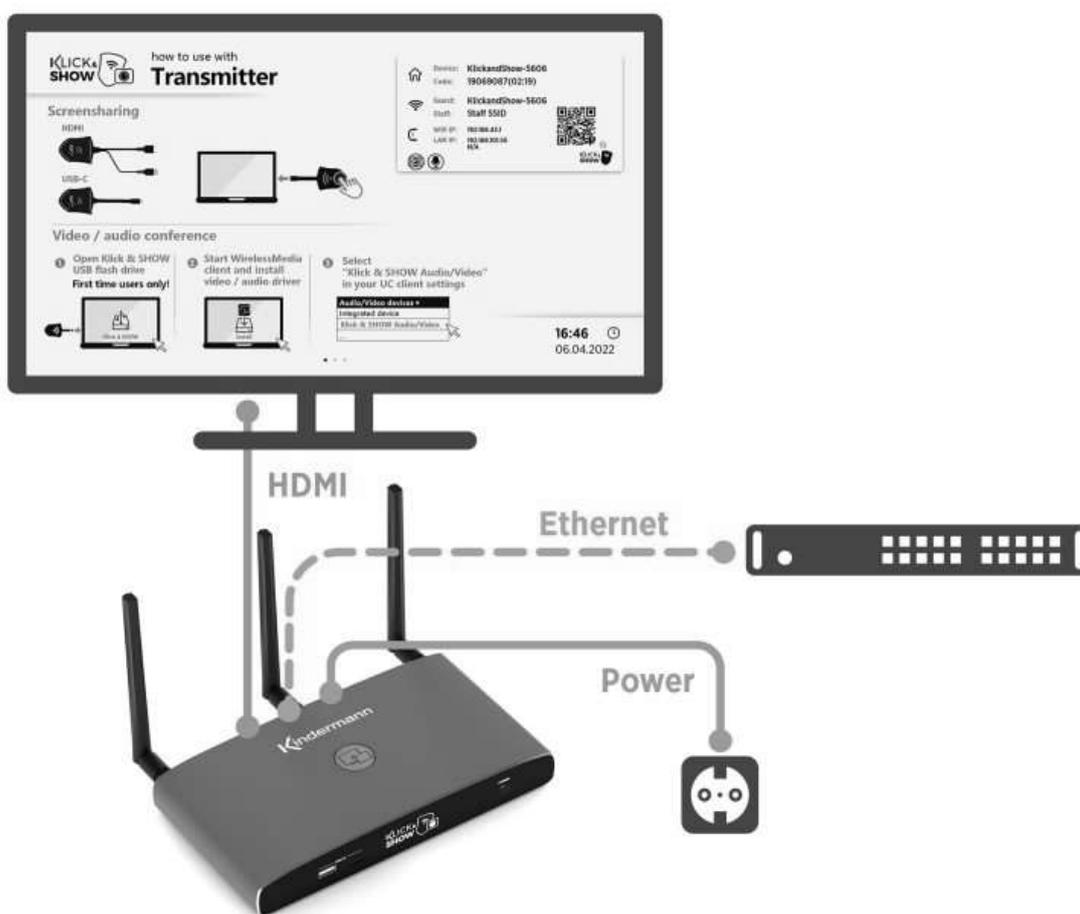
Is a USB audio conferencing system on the Klick&Show connected, the audio output takes place via it.



Hint: If there is no audio output via the Klick & Show, please check the configuration of your computer. Here the device "Wireless Media" must

English

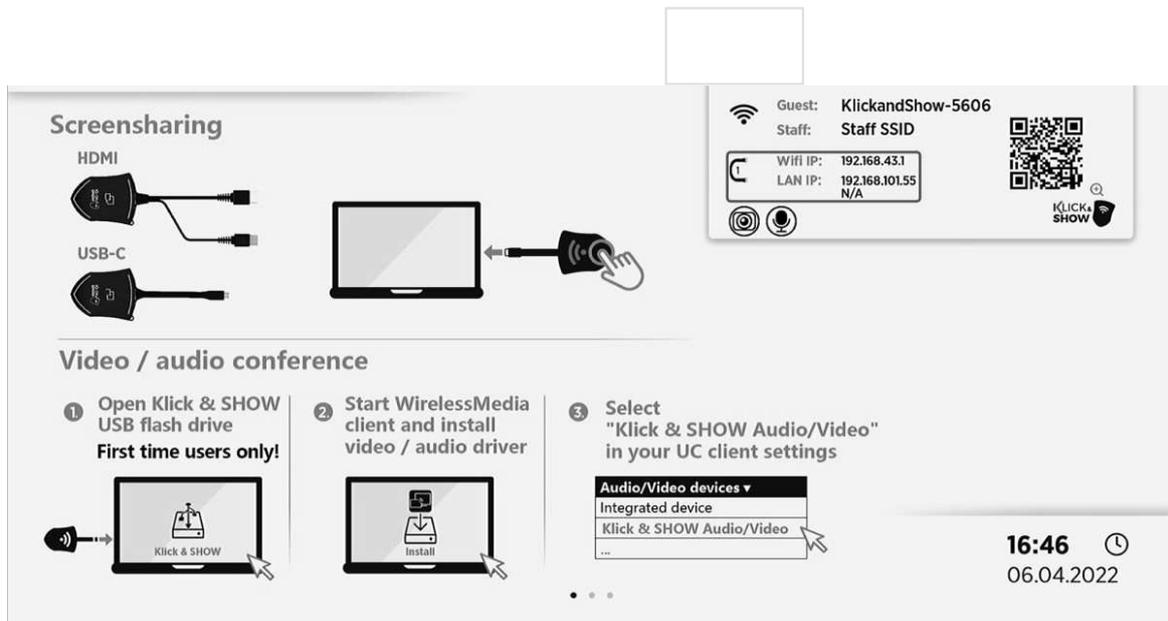
Depending on the network configuration, the wired network access also available in the TV (bridging).



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/LAN-Verbindung.jpg> >

The network connections can be used for:

- Network integration of the base in guest or corporate network
- Over-the-air update (OTA) of the base
- Access to the WebUI for configuration



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Netzwerk-Screenshot.jpg> >



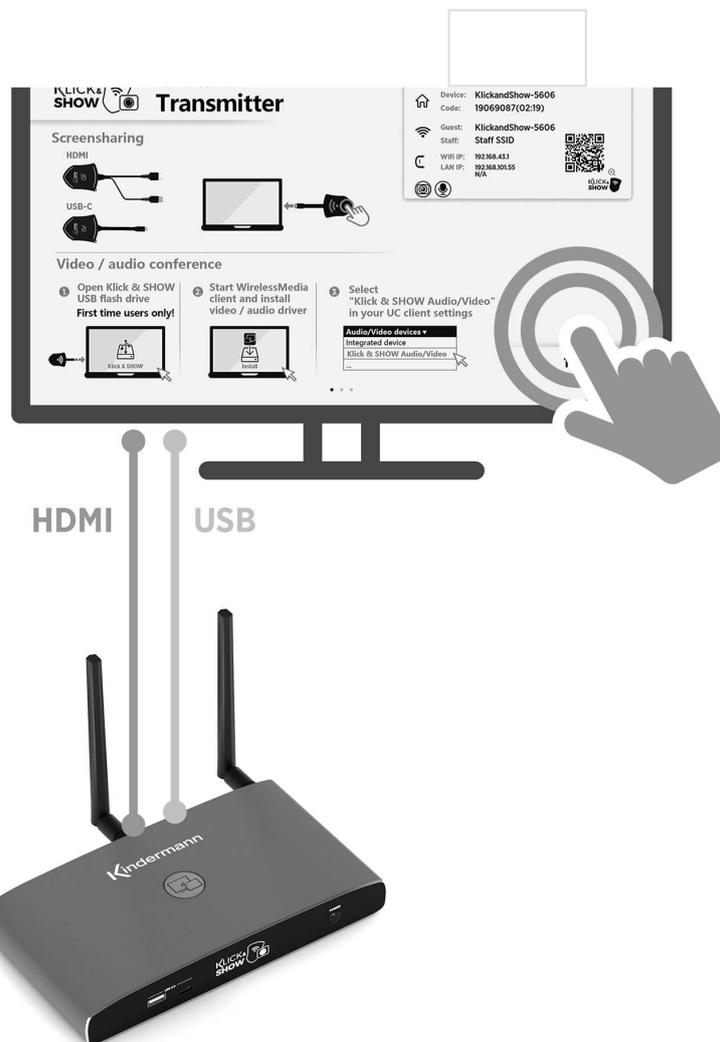
hint:

Details on network configuration can be found in the chapter [WebUI](#).

5.7 Use of touch screens

Klick & Show transmits image and audio signals as well as touch input to a display at the same time. Klick & Show supports the USB-HID protocol. For example, interactive touch displays, projectors or whiteboards as well as a mouse can be connected to the base via USB in order to

1. take over the functions of a mouse, perform multi-touch gestures*, work interactively, etc.
The computer can be remotely controlled, for example.B. from the touch screen.
2. to use the moderator function.
3. to use the integrated whiteboard app.
4. Confirm onscreen messages.



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Touchscreens-Verwendung.jpg> >

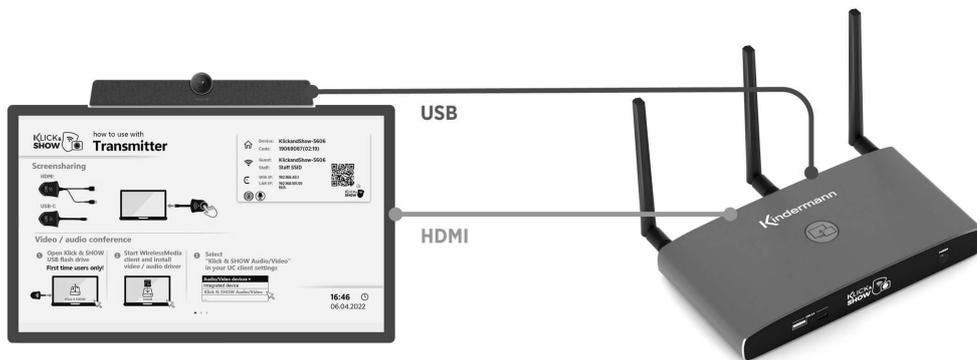
5.8 Use of USB cameras and audio conferencing systems

KLICK&SHOW K-FX transforms conventional conference rooms into hybrid meeting rooms, facilitating collaboration between office and home office. It wirelessly connects

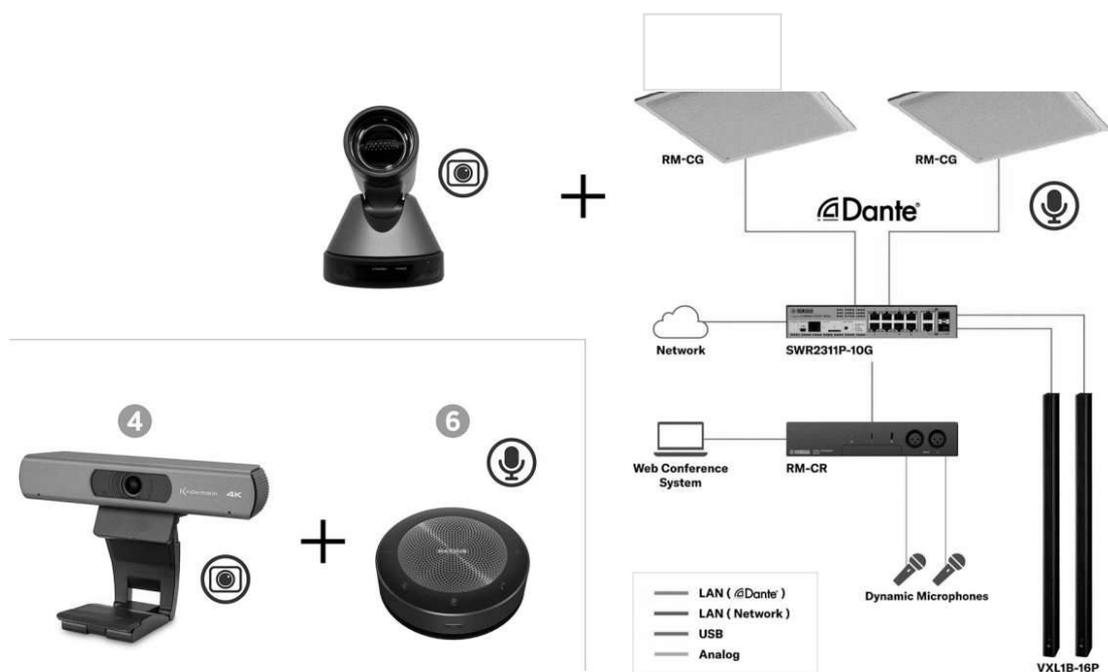
English



With the PC or notebook, these can now be used wirelessly thanks to USB-over-WiFi for conferencing, as if they were directly connected.



The following device classes are supported:



- Audio & Video in One Device (Built-in Devices)
 - 1. USB video soundbars
 - 2. USB-PTZ system solutions incl. microphone and speakers and integrated echo canceling (AEC)
- Video only
 - 3. USB-PTZ cameras
 - 4. USB webcams (with microphone)
- Audio only
 - 5. Integrated audio room solution with AEC
 - 6. Speakerphones
- A combination of the "Video Only" and "Audio Only" solutions.



hint:

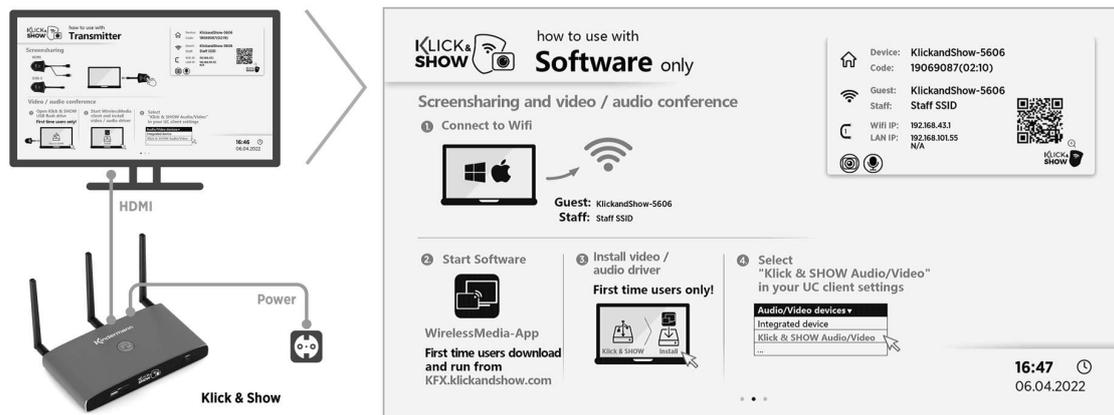
*The use of a USB webcam with built-in microphones and the speakers of a display is controlled by the **Klick & Show K-FX** not supported, in this case only the video*



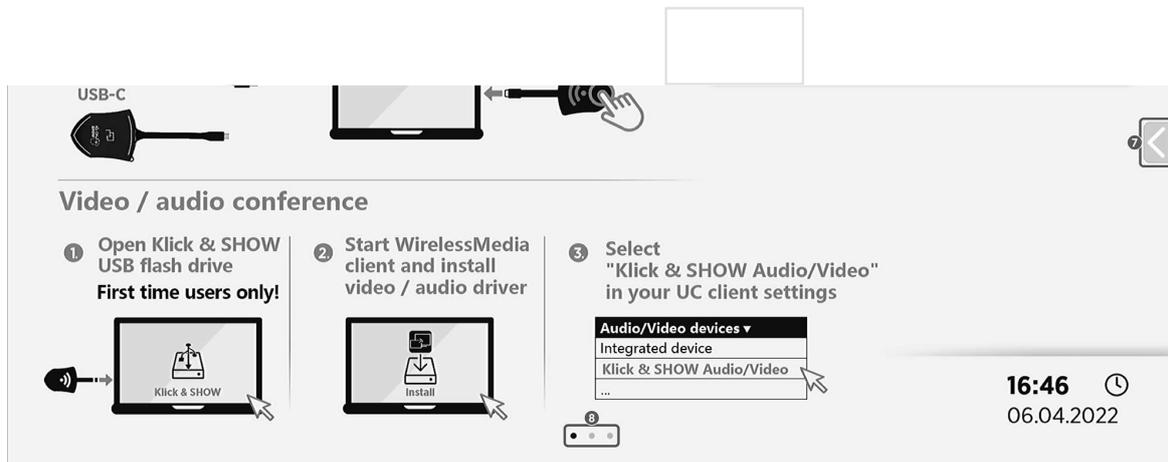
6. Commissioning & use

6.1 Home Screen

1. Turn on the base device.
2. After the startup process, three home screens are displayed alternately:

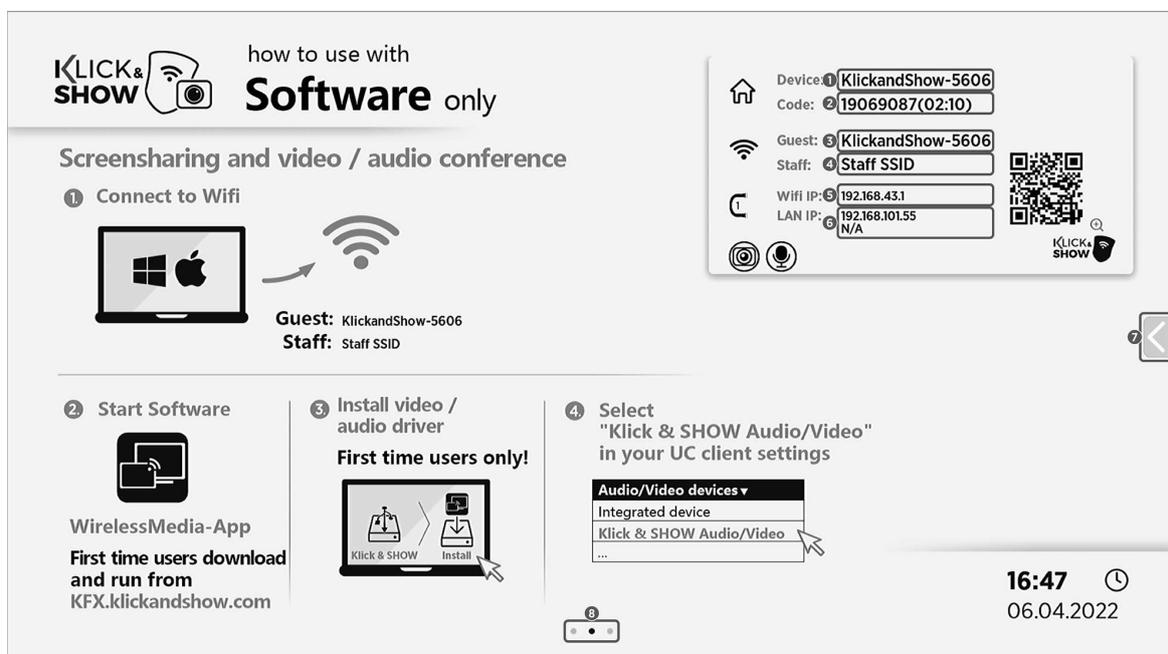


< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Startbildschirm-animiert.gif> >



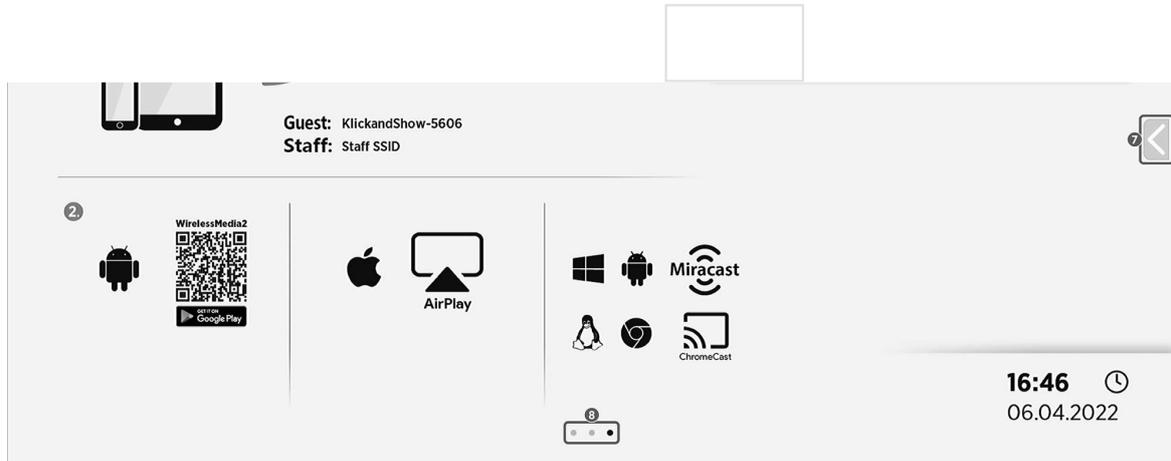
< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Homescreen-Nutzung-Transmitter.jpg> >

6.1.2 Homescreen for use via software



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Homescreen-Nutzung-Software.jpg> >

Kindermann® MANUALS



English

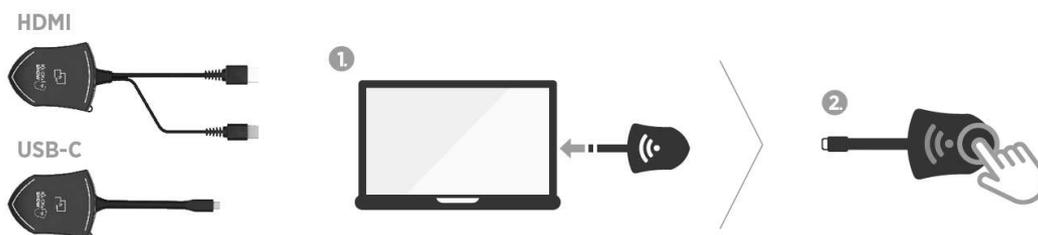


2	code	8-digit PIN to connect to the KLICK&SHOW. In Accesspoint Mode , the code is also the WLAN password. (Time to automatic change)
3	guest	<u>WLAN Name (SSID)</u> for guest users (Text box, the network name must be entered in the network configuration.)
4	internal	<u>WLAN Name (SSID)</u> for internal users (Text box, the network name must be entered in the network configuration.)
5	WLAN IP	IP address of the Klick & Show Base in access point mode
6	LAN IP	IP address of the Klick & Show Basis in the LAN "N/A" = no connection to network or no IP address assigned
6	Network Status	<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;">  <p>The wired network connection (LAN1 or LAN2) is passed through to the WLAN (bridging).</p> </div> <div>  <p>Segmented network, WLAN users do not have access to the wired network connection</p> </div> </div>
7	Moderation menu Whiteboard App	Does it work? Moderator menu up and down. Provides access to the  Whiteboard and  Annotation App.
8	Position	Shows the switch between the alternatin <div style="float: right; border: 1px solid gray; padding: 2px 5px; margin-top: 5px;">English</div>



6.2 Screen sharing via HDMI and USB-C transmitters (for all operating systems)

Plug the transmitter into the HDMI and USB-A interface or into the USB-C interface of your computer and wait until the transmitter is constantly green.



< <https://kindermann-manuals.com/wp-content/uploads/2021/03/nutzung-von-usb-hdmi-transmitter.png> >

Touch the surface of the transmitter to start the transmission. The transmitter will confirm the activation with a slight vibration and a color change of the LED to red. The screen will now be transferred and displayed on the connected display. To stop the transfer, tap the transmitter again.



hint:

The HDMI and USB-C transmitters behave on the computer like an external monitor, i.e. You can also define it as an extended screen. To do this, select the key

combination **Windows + P** on Windows and go to **macOS**  > **System Preferences**, click **Monitors**, and then click **Arrange**.

system.

6.3 Initial commissioning and use of the USB video conferencing function in conjunction with HDMI or USB-C transmitters under Windows



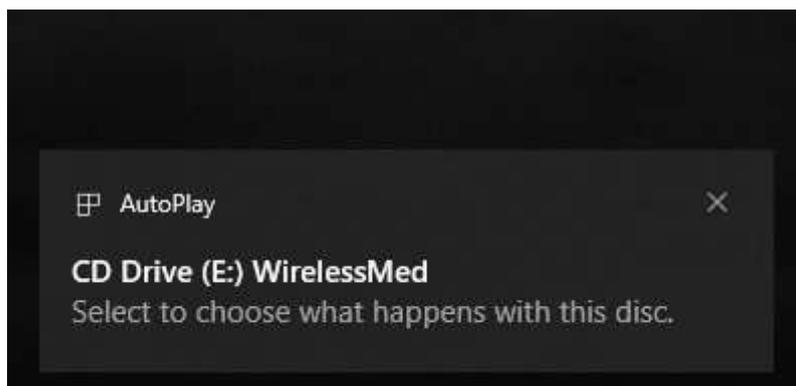
Hint:

Currently, the BYOM (Bring Your Own Meeting), i.e. the wireless transmission of USB camera and USB audio conference signals, is only available under Windows 10 / 11.

By the end of Q2 2022, this option will also be available on MacOS.

All other operating systems do not currently support this option!

Connect the transmitter to the computer as described in [Chapter 6.2](#) . In addition to the screen sharing function, the transmitter is recognized as a "CD drive" (non-writable memory) on which the WirelessMedia Client is deployed.



English

CD Drive (E:) WirelessMed 

Choose what to do with this disc.

Install or run program from your media



Run WirelessMedia.exe
Publisher not specified

Other choices

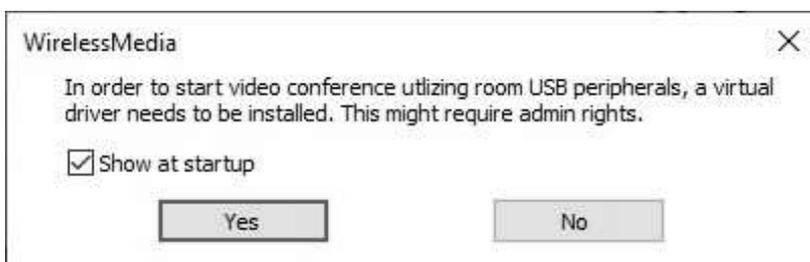


Open folder to view files
File Explorer



Take no action

Boot the WirelessMedia.exe from this disk. If a USB camera and/or a USB audio conferencing system has been connected to the base, the software checks whether the necessary drivers are already installed on the system. The first time you use it, the WirelessMedia software will prompt you to install the drivers.



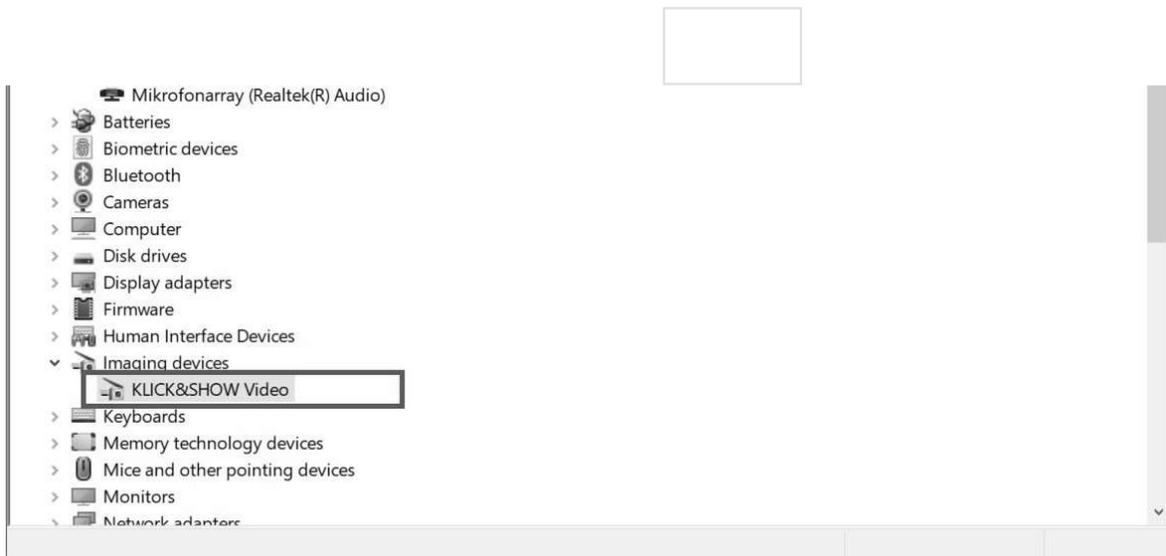


Hint:

Administration rights are required for installation.

Alternatively, the WirelessMedia Client for Windows and the function drivers can be pre-installed via central software distribution.

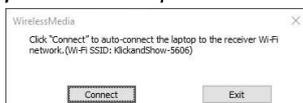
After successful installation, a virtual camera "KLICK&SHOW Video" and a virtual audio device "KLICK&SHOW Audio" as a microphone or playback device to choose from.



Hint:

The data transfer for screen sharing takes place via the WLAN module integrated in the transmitter, whereas the transmission of the USB data from the camera and audio conference is carried out directly via the network connection of the computer. Depending on the selected network configuration of the Klick & Show Basically, the WLAN connection must be changed.

The WirelessMedia Client performs the switch independently. As a rule, the WLAN password is passed when pairing the transmitters, so that no input is necessary.



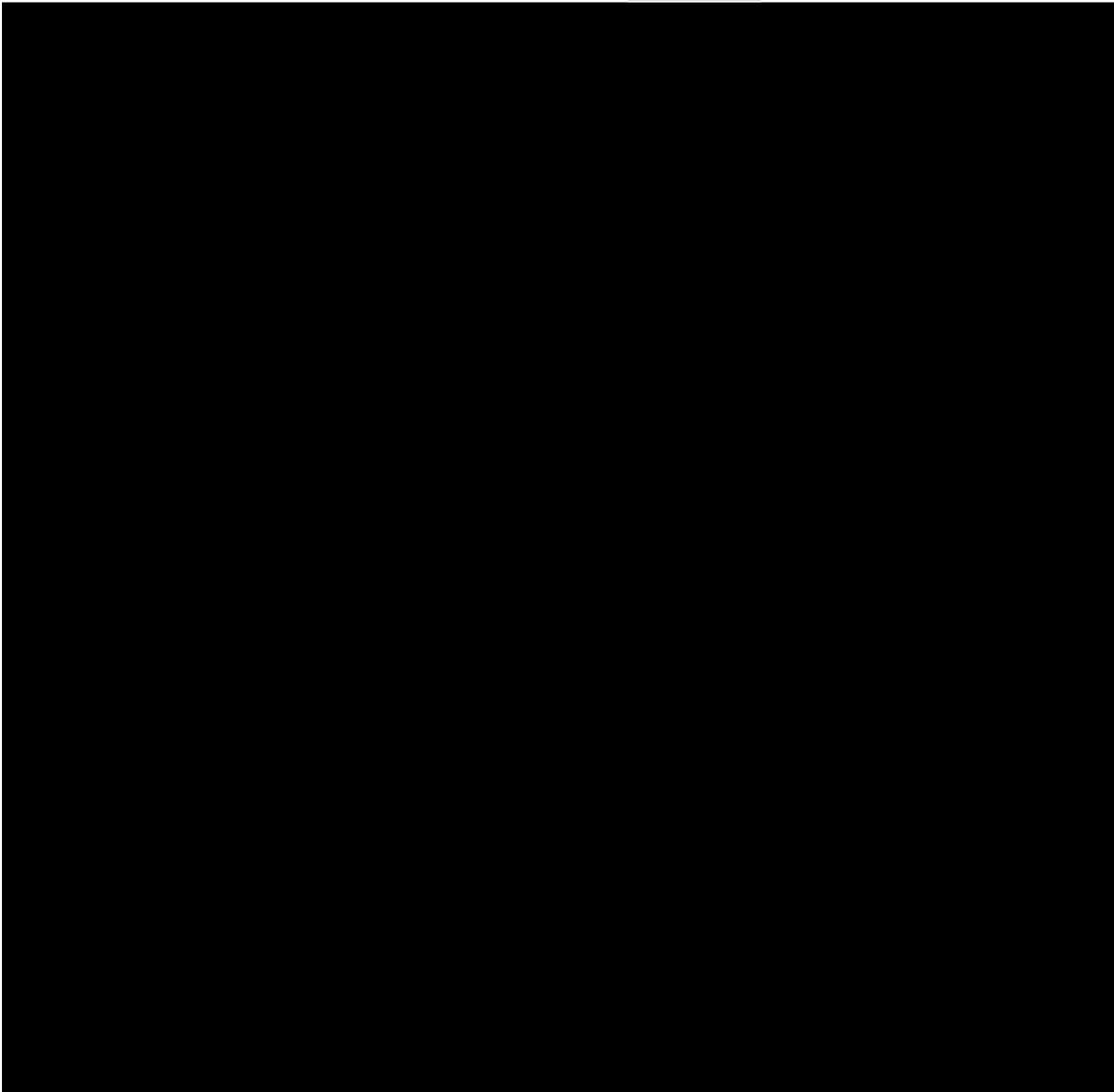
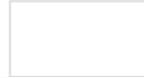
You must confirm the corresponding abbreviation.

Information on network configuration can be found in the [chapter Network Settings](#).

Wireless use of camera and audio conference

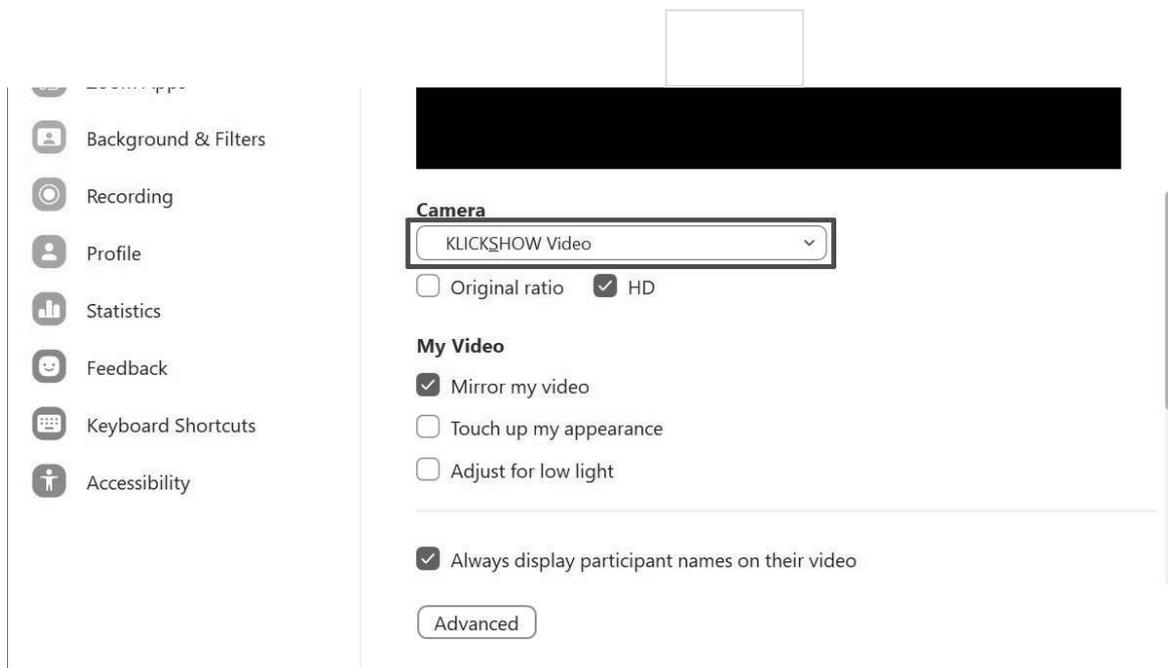
In order to be able to use the USB camera or the USB audio conferencing solution wirelessly, the last step is to change the device configuration in the software client of the UCC application.

Here in the example the settings menu of Microsoft Teams:



Here in the example the settings menu of Zoom:





In other software clients, the setting must be implemented analogously.



In all UCC software clients there is a test function for the audio and video setting. With this you can also ensure the correct functioning of Klick&Show test.

As soon as the camera or audio transmission is used, the color on the icons on the home screen and in the WirelessMedia Client changes to green.



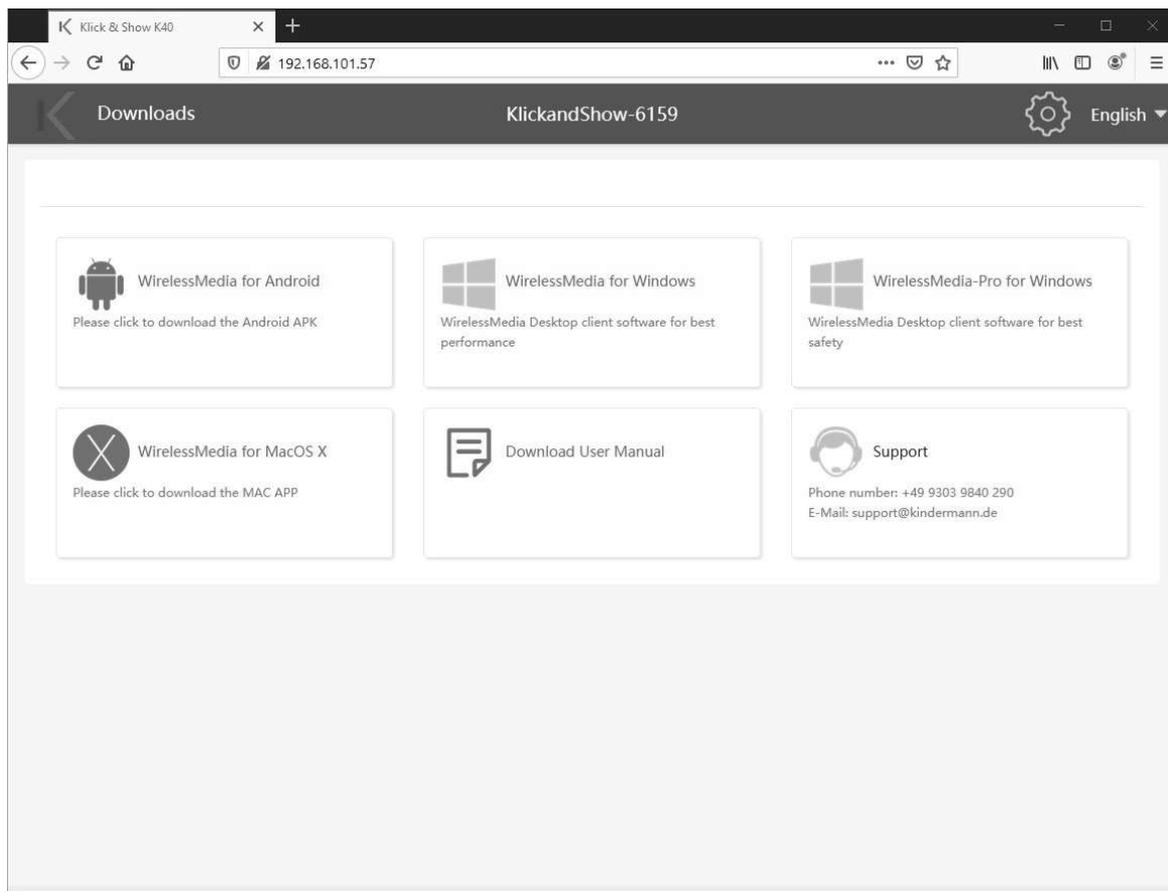
 **Hint:**

In order to be able to use the camera or the audio system wirelessly, a connection via WirelessMedia Client is mandatory.



If the WirelessMedia Client is not yet available on your computer, you have the following options to choose from:

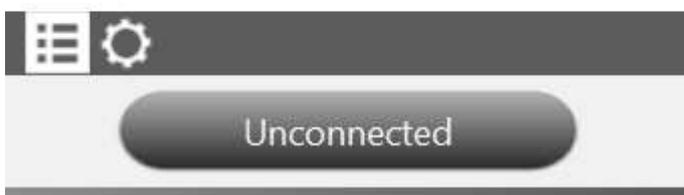
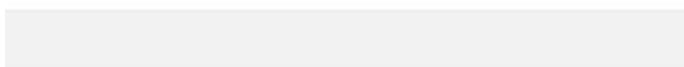
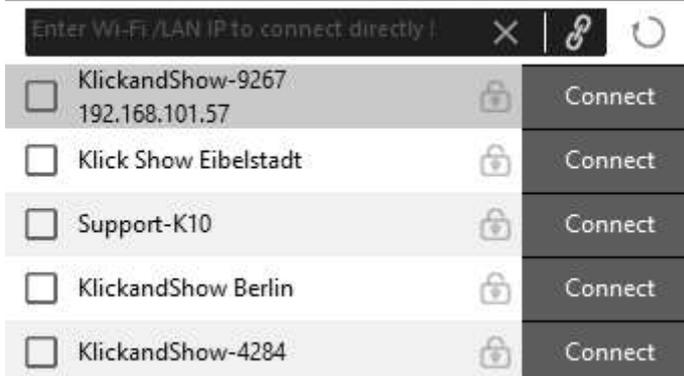
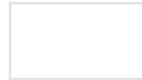
- Download [from kfx.klickandshow.com](http://kfx.klickandshow.com) <
<https://www.klickandshow.com/download-3/kfx-download/>>
- By download from the Klick & Show **Base**
Enter the IP address displayed on the home screen into the browser and download the "WirelessMedia App" app to match your operating system.



< https://kindermann-manuals.com/wp-content/uploads/2021/04/WebUI_landing.jpg >

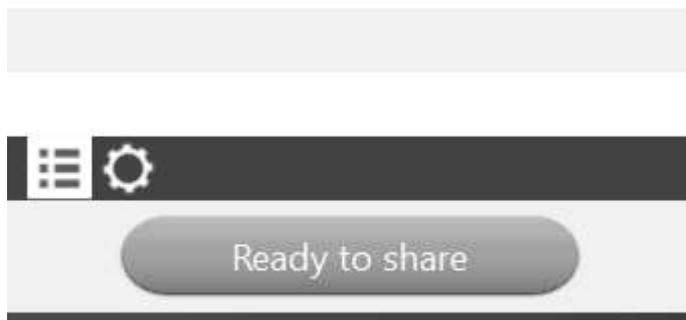
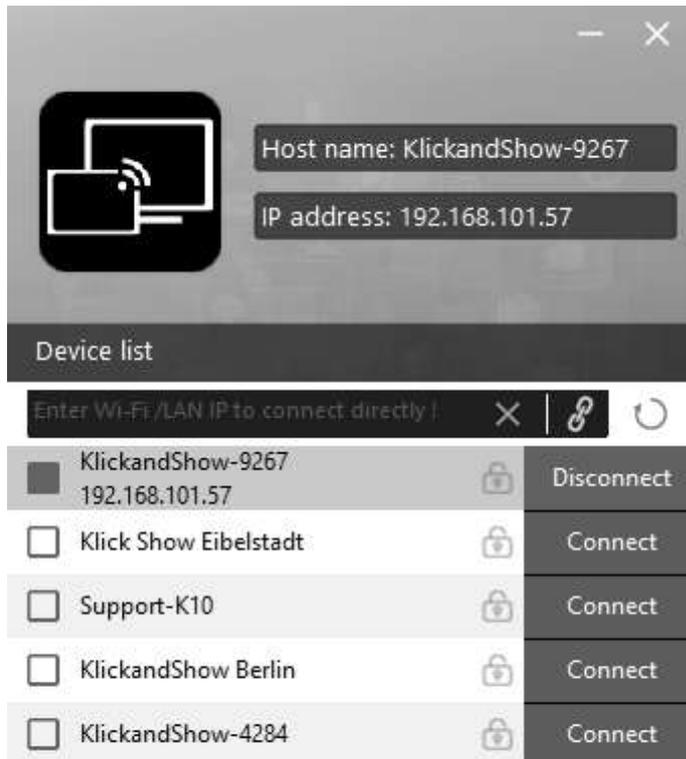
Connect your computer to the "GUEST" or "EMPLOYEE" Wi-Fi network that is displayed on the home screen.

English



< [https://kindermann-](https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_windows_large_grey.png)

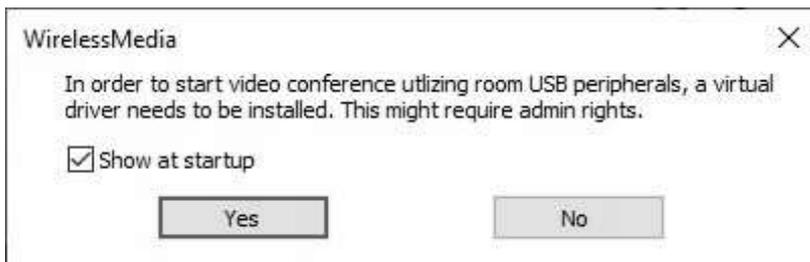
[manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_windows_large_grey.png](https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_windows_large_grey.png)
g>





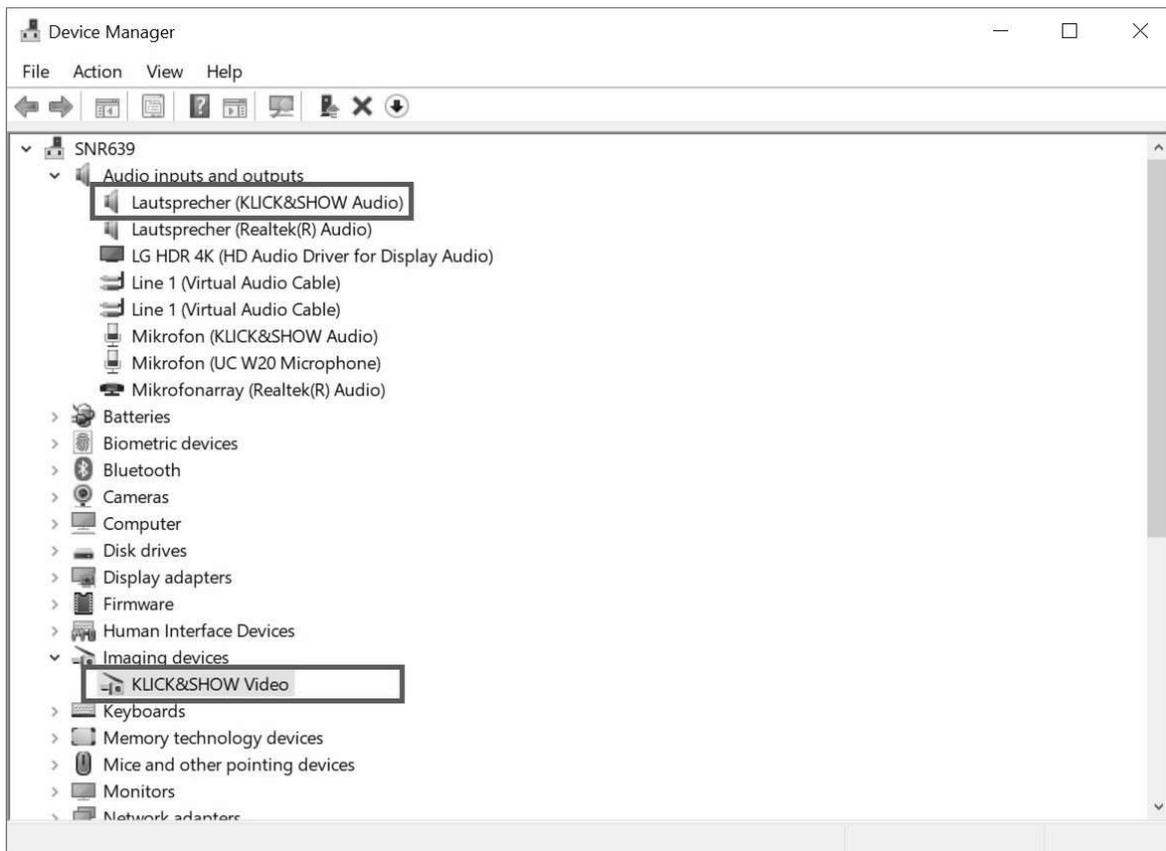
address directly in the black box and then click the  click.
In this case, your computer is either not connected to the same network (segment)
or there are network-side restrictions that block an automatic scan.
In this case, please contact your network administrator.

If a USB camera and/or a USB audio conferencing product has already been connected to the base, the software checks whether the necessary drivers are already installed on the system. The first time you use it, the WirelessMedia software will prompt you to install the drivers.





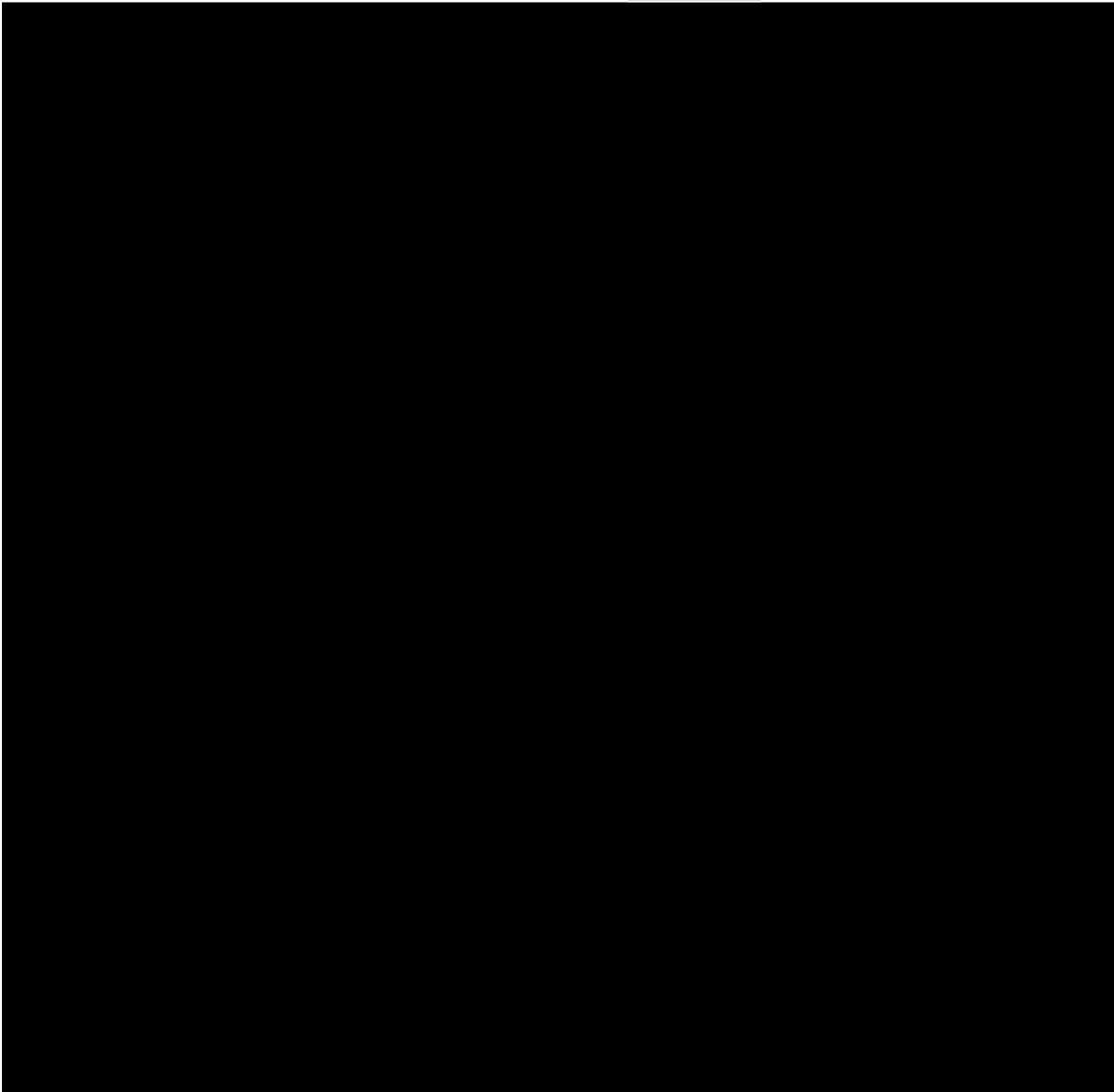
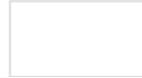
device "KLICK&SHOW Audio" as a microphone or playback device to choose from.



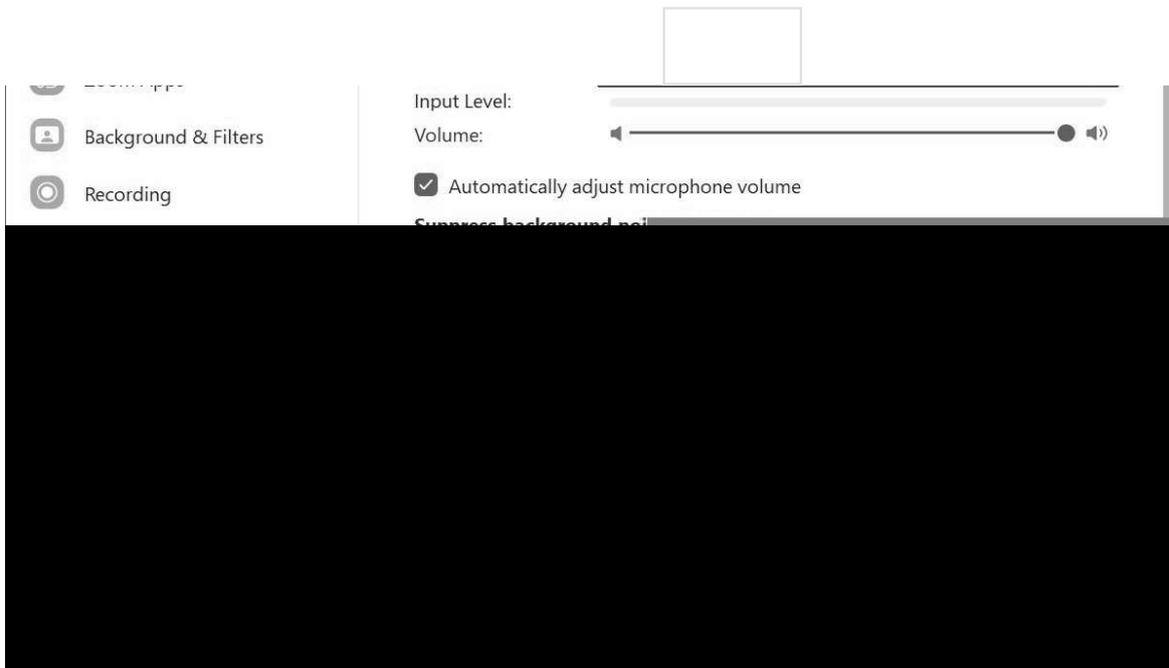
6.4.1 Wireless use of camera and audio conference

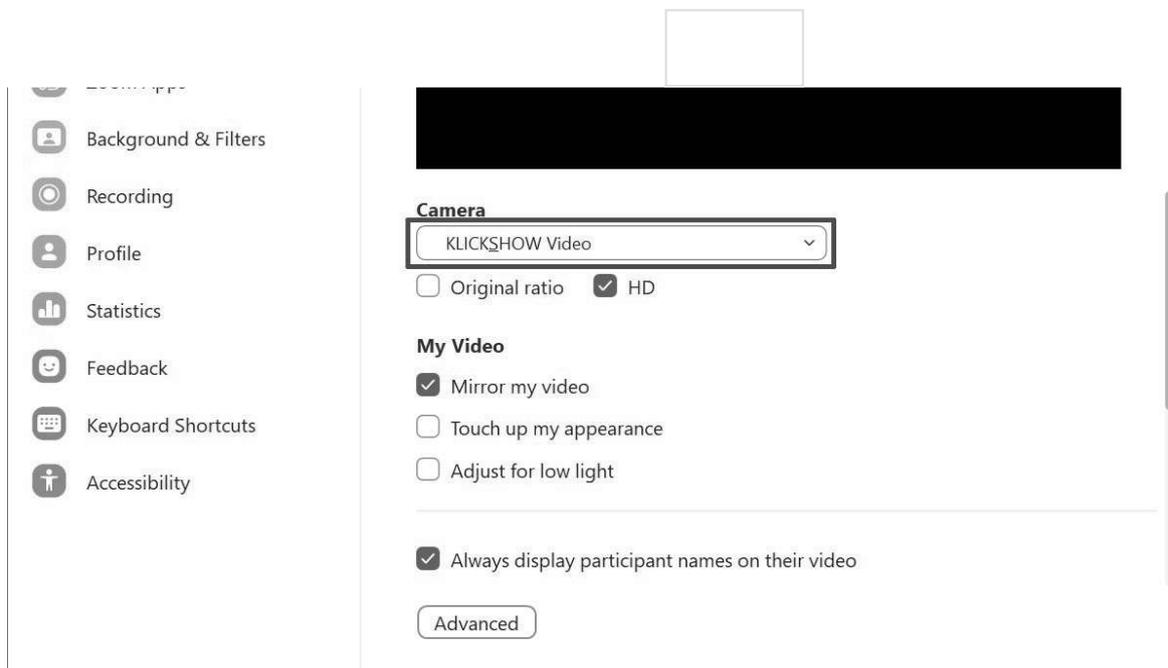
In order to be able to use the USB camera or the USB audio conferencing solution wirelessly, the last step is to change the device configuration in the software client of the UCC application.

Here in the example the settings menu of Microsoft Teams:



Here in the example, the settings menu of Zoom.





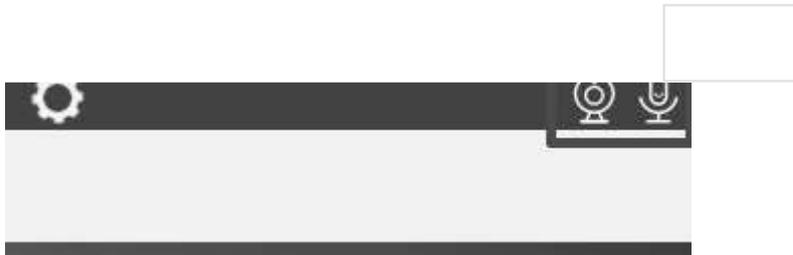
In other software clients, the setting must be implemented analogously.



Hint:

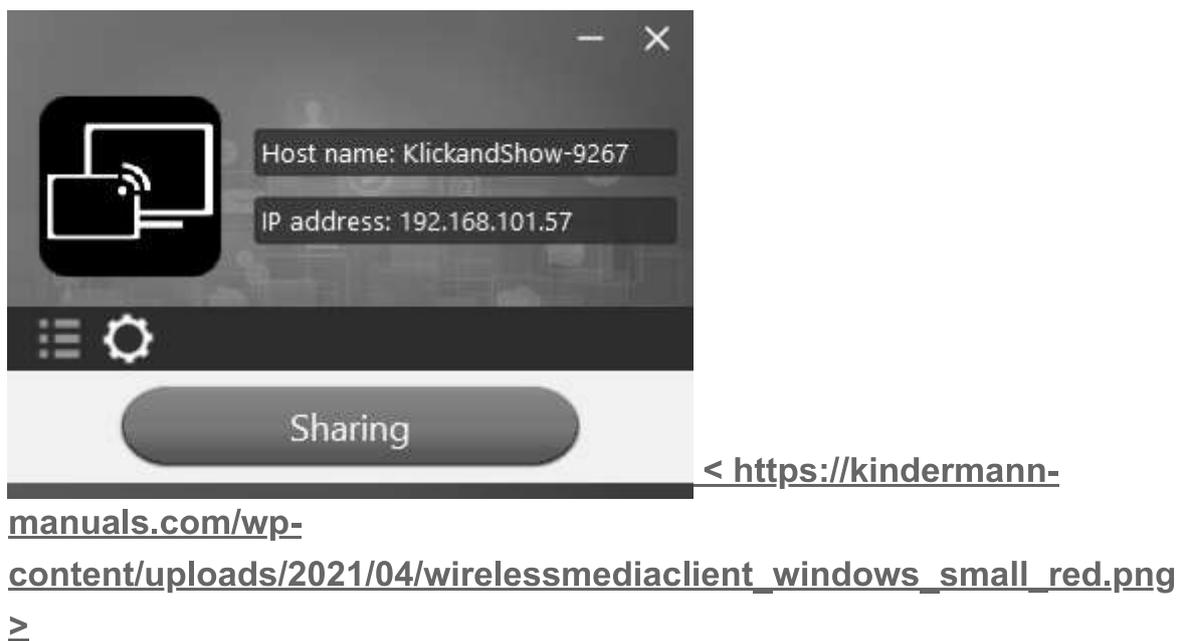
In all UCC software clients there is a test function for the audio and video setting. With this you can also ensure the correct functioning of Klick&Show test.

As soon as the camera or audio transmission is used, the color on the icons on the home screen and in the WirelessMedia Client changes to green.



6.4.2 Screen sharing via WirelessMedia Client

Connect to a Klick&Show Base as described at the beginning of the kaptiel. Then click on the **"Ready..." button** , the window color will change to red and the screen content will be transferred. The name of the logged-in user appears briefly.



You can minimize the app window. in the windows taskbar you can see if the screen content is transferred   or not .

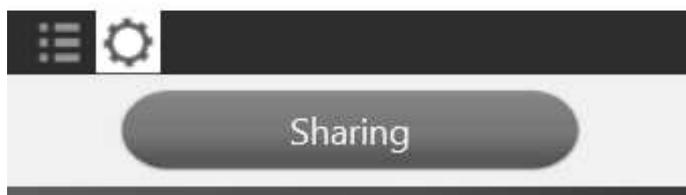
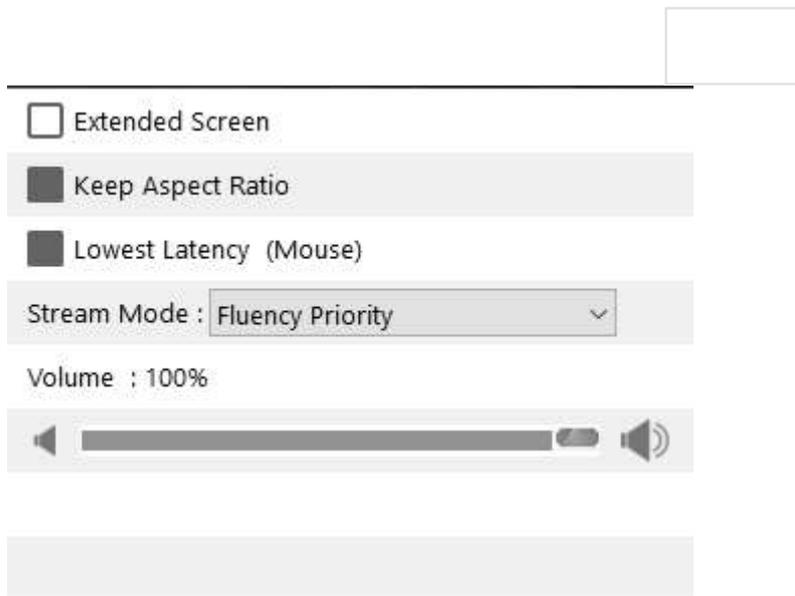
To stop the transfer, click on "... **transmits**", the window color is green again.



https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_windows_close.png

6.4.3 Advanced Features of the WirelessMedia Client for Windows

click the gear icon  in the app to use the "options" or close.



https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_windows_large_settings.png

Options:

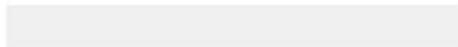
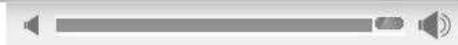
- **Extended screen:**

If this option is selected, the Klick & Show like an external monitor, i.e. a second "virtual" screen is set up and transmitted.

If you use the transfer with Klick & Show (pause), the extended desktop remains active until you either deselect the "Extended Screen" function in the APP or close the WirelessMedia app. Alternatively, you can use the key combination "Windows + P" in the Windows configuration to select "PC screen only" or "Duplicate".



When the Extended Screen feature is activated for the first time, a driver is installed. The installation process requires administrator privileges.



< <https://kindermann->

[manuals.com/wp-](https://kindermann-manuals.com/wp-)

[content/uploads/2021/04/WirelessMedia_Extended_Desktop_initial.jpg](https://kindermann-manuals.com/wp-content/uploads/2021/04/WirelessMedia_Extended_Desktop_initial.jpg)>

- **Keep aspect ratio:**

This option is active by default. This ensures that the image on the source device and on the display have the same proportions. If you deselect the function, the image is stretched to the overall width and thus possibly distorted.

- **Lowest latency (mouse):**

The option is active by default. The mouse pointer is displayed during movements **without perceptible delay** (~20 ms), which significantly improves ergonomics.

The mouse cursor is displayed the same in all applications, regardless of whether it changes its shape on the PC monitor.

Disabled: The shape of the mouse pointer on the display corresponds to the shape in the application. The movement of the pointer takes place with a small delay (100 – 150 ms).

- **Stream Mode:**

– **Flowing priority:** A variable (codec) is used here. For fast-mov

English >

transmission.



6.4.4 Additional Operating Instructions for the WirelessMedia Client for Windows

If the WirelessMedia version does not match the firmware of the base, you will be informed by a message after starting the APP:



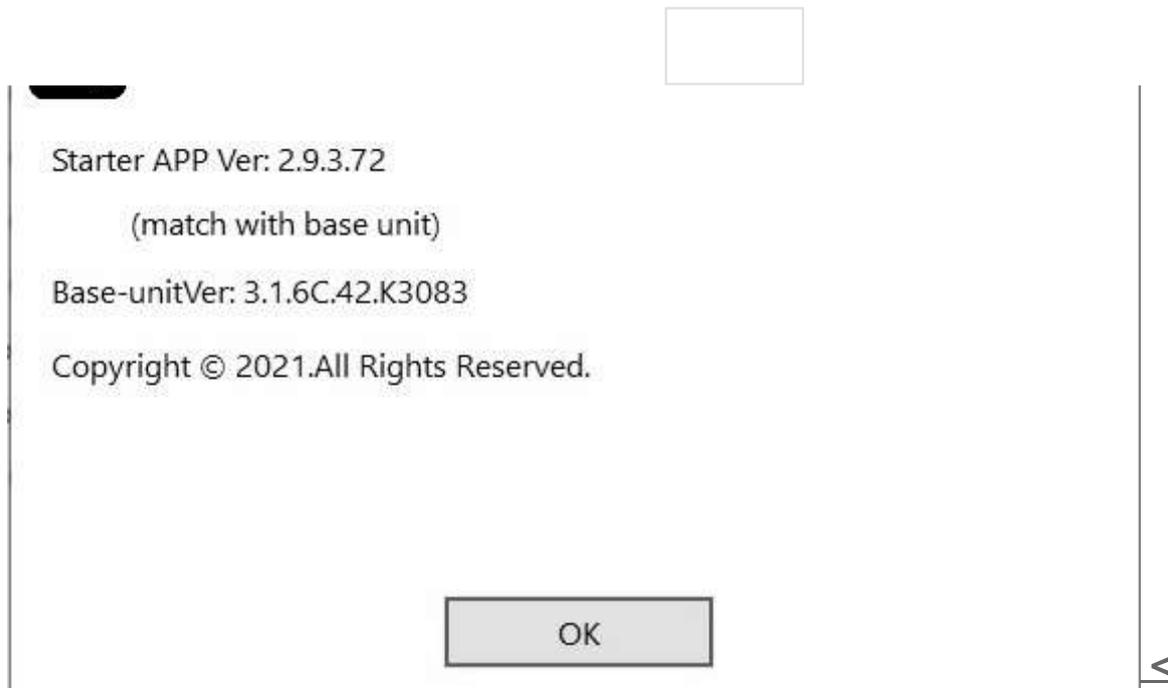
< https://kindermann-manuals.com/wp-content/uploads/2021/04/Wireless_Media_update_warning.jpg>

In this case, delete the previous version and install the current < <http://k40.klickandshow.com>> one.



A right-click on the icon  in the Windows taskbar, the Klick & Show

English



https://kindermann-manuals.com/wp-content/uploads/2022/04/wirelessmediaclient_windows_about.png.jpg

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6.5 Screen sharing with the WirelessMedia Client for MacOS

Connect your MacBook to the "GUEST" or "EMPLOYEE" Wi-Fi network that is displayed on the home screen.

Is the Klick & Show Basically connected to a network via CAT cable, all other computers in this network also have access to the Klick & Show Base.



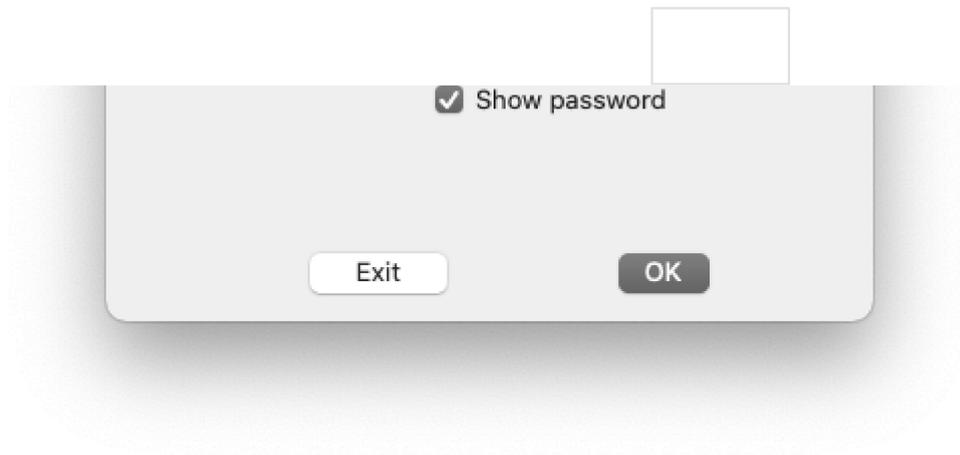
3. Run the "**WirelessMedia Client**" with a double click. A list of all available Klick & Show in **network** is displayed. Select the Klick & Show with which you want

English



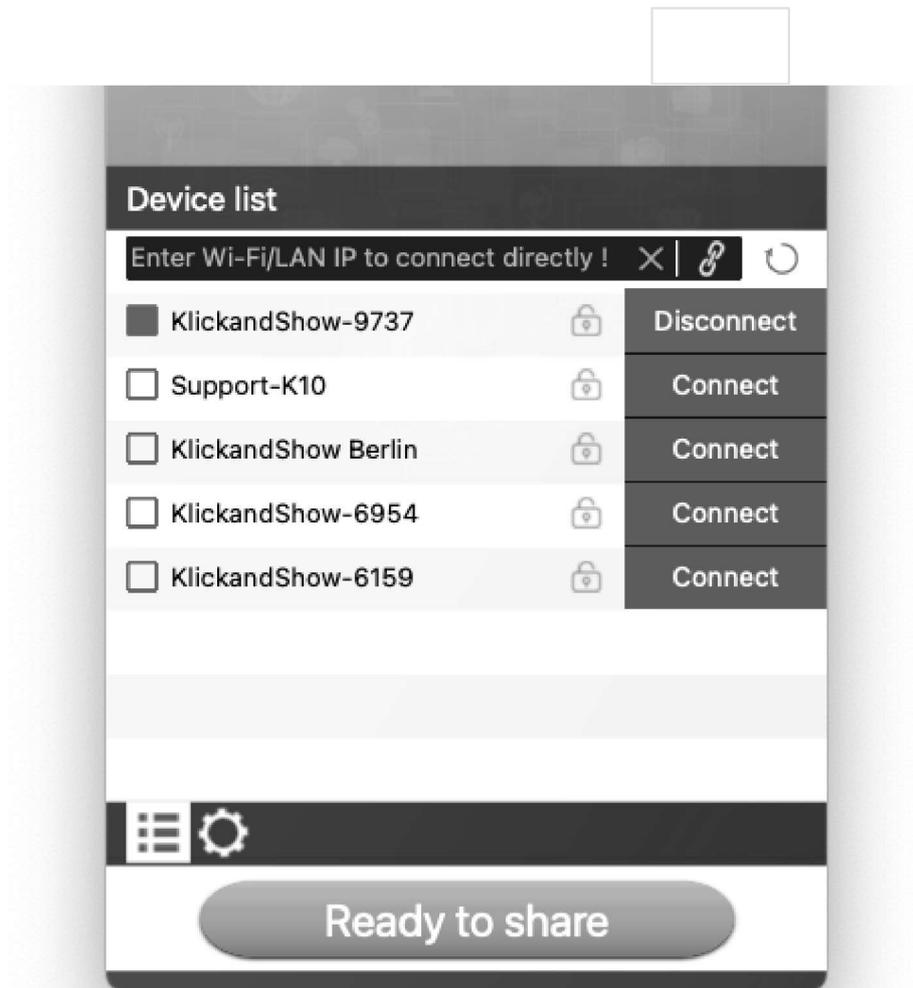
<

https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_large_grey.png



≤

https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_enter_pin.png

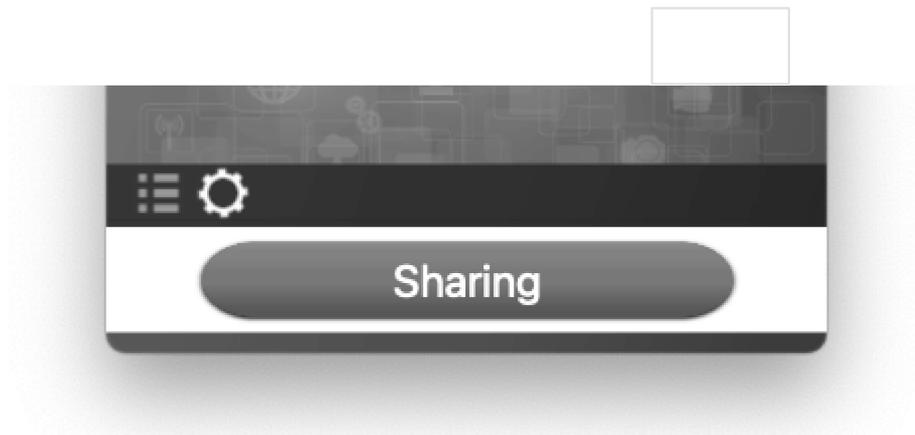


∨

https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_large_green.png

≥

Now click on the **button "Ready ..."**, the window color changes to red and the screen content is transferred. The name of the logged-in user appears briefly.



https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_small_red.png

You can minimize the app window. In the MacOS status bar shows an icon



the current connection status.

To stop the transfer, click on "... **transmits**", the window color changes back to green.



Hint:

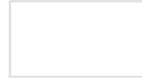
If the desired Klick & Show Base not displayed in the list, you can enter the IP

address directly in the black box and then click the  click.

In this case, your computer is either not connected to the same network (segment) or there are network-side restrictions that block an automatic search.

In this case, please contact your network administrator.

To exit the WirelessMedia Clients click on the Close icon (red dot) or in the system tray with the right mouse button on the  Icon and then click Exit. A confirmation dialog follows.

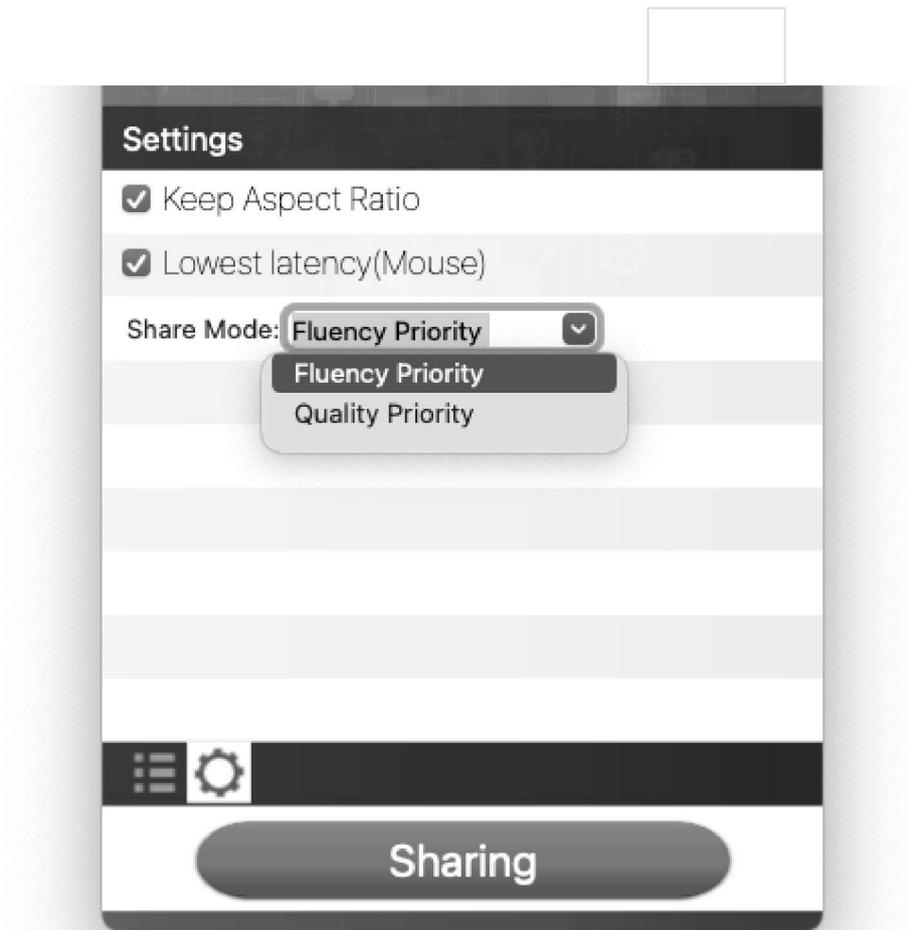


https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_close.png

Advanced features of the WirelessMedia Client for MacOS



click the gear icon  in the app to use the "**options**" or close.



[≤](#)

https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_red_options_streaming.png

Options:

- **Keep aspect ratio:**
This option is active by default. This ensures that the image on the source device

whether it changes its shape on the PC monitor.



Disabled: The shape of the mouse pointer on the display corresponds to the shape in the application. The movement of the pointer takes place with a small delay (100 – 150 ms).

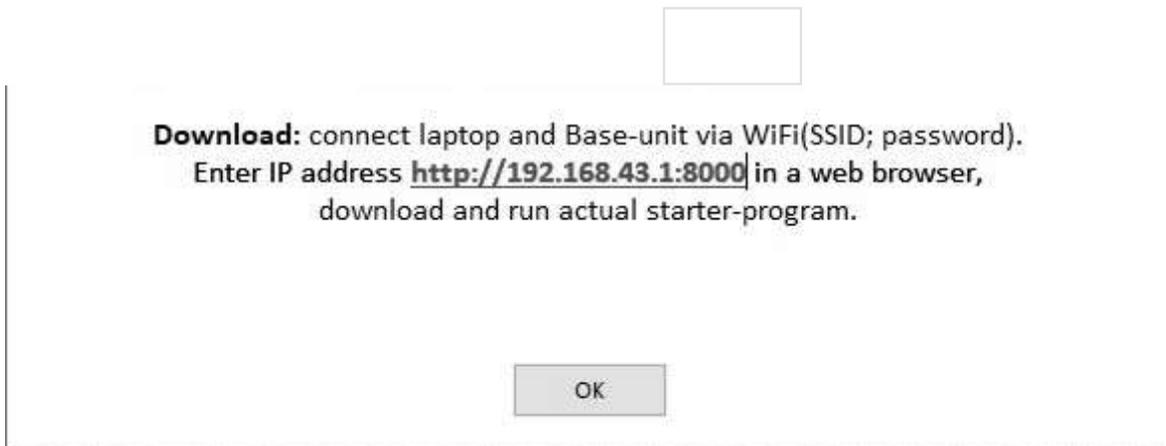
- **Share mode:**

- **Fluid priority:** A variable codec is used here. In the case of fast-moving images, the quality is somewhat reduced in favor of a smooth display.

- **Quality priority:** In order to ensure the highest possible playback quality, the data rate is increased for fast-changing images, such as something of a video transmission. This can lead to a slight but perceptible delay (latency).

Additional operating instructions for the WirelessMedia Client for MacOS

If the WirelessMedia version does not match the firmware of the base, you will be informed by a message after starting the app:

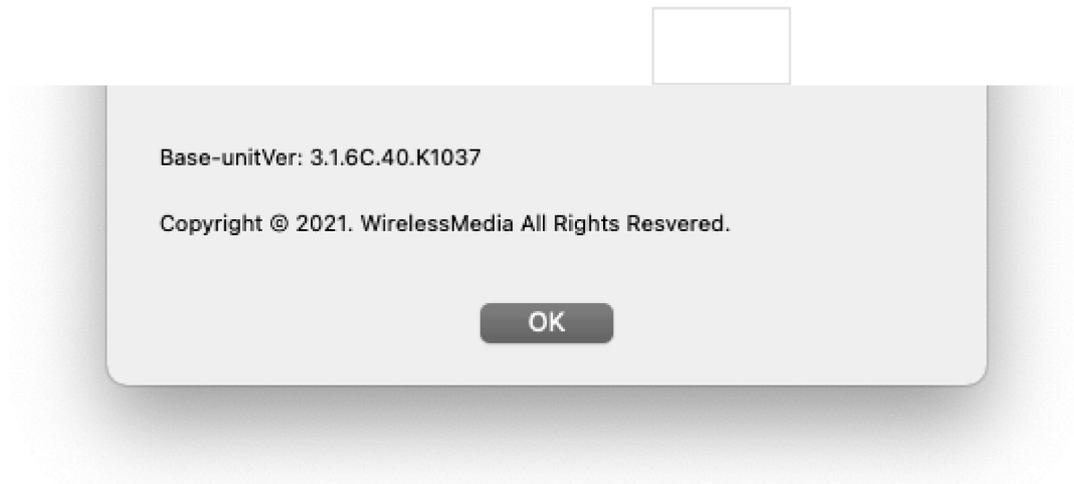


https://kindermann-manuals.com/wp-content/uploads/2021/04/Wireless_Media_update_warning.jpg

In this case, delete the previous version and install the **current** <http://k40.klickandshow.com/> one.



A right-click on the icon  in the Windows taskbar, the Klick & Show Context menu. **The** software tells you versions of the basic device, the transmitters and the WirelessMedia client.



https://kindermann-manuals.com/wp-content/uploads/2021/04/wirelessmediaclient_macos_about.png

6.6 WirelessMedia2 App for Android

How do I get the WMedia2 Android app?



<https://play.google.com/store/apps/details?id=com.wirelessmedia.wmedia2&hl=de&gl=US> <
<https://play.google.com/store/apps/details?id=com.wirelessmedia.wmedia2&hl=de&gl=US>>

Use of the WMedia2 Android App

Connect your Android device to the "GUEST" or "EMPLOYEE" Wi-Fi network displayed on the home screen.

Is the Klick & Show Basically connected to a network via CAT cable, all other computers in this network also have access to the Klick & Show Base.

Open the WirelessMedia app. The available Klick & Show Devices displayed.



[< https://kindermann-manuals.com/wp-content/uploads/2021/08/Wmedia2_Android_devicelist.png>](https://kindermann-manuals.com/wp-content/uploads/2021/08/Wmedia2_Android_devicelist.png)



Hint:

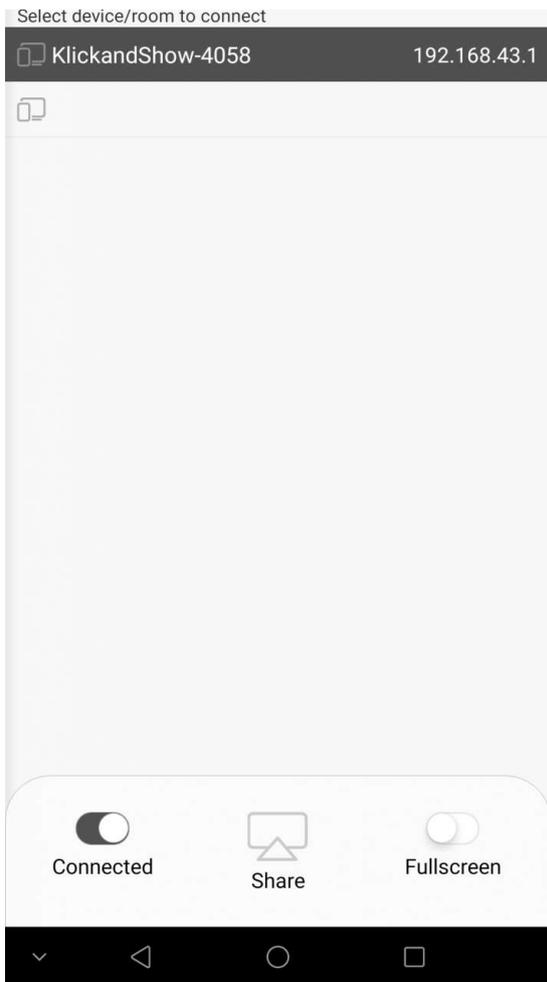
To update the available Klick & Show Devices drag the "Drop-down refresh" arrow down.

Via the list entry "Other device" you can enter the IP address directly in the black field and then click on the icon. If the desired Klick & Show Base not displayed in the list, your mobile device is either not connected to the same network (segment) or there are network-side restrictions that block an automatic search.

In this case, please contact your network administrator.

Select the desired device from the list and, if necessary, enter the 8-digit code that is displayed on the home screen.

English

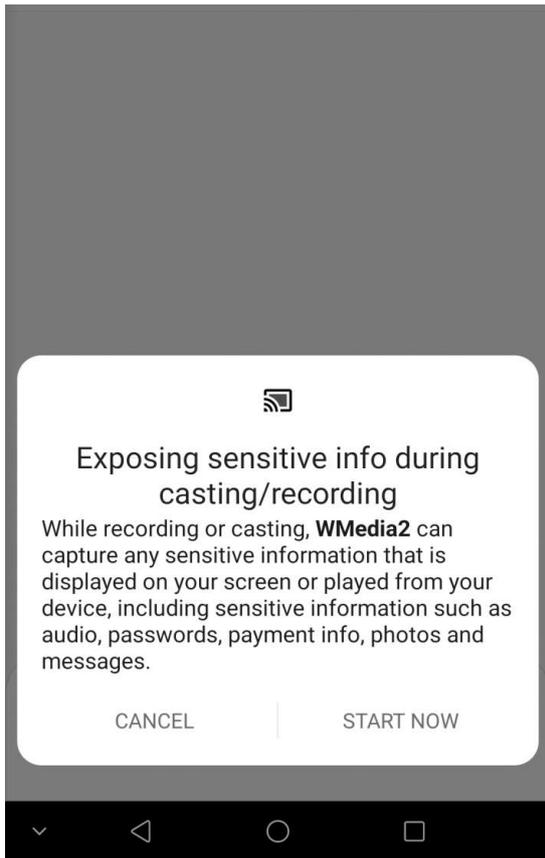


https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_Android_connected.png



[< https://kindermann-manuals.com/wp-content/uploads/2021/04/wmedia2_android_pin.png>](https://kindermann-manuals.com/wp-content/uploads/2021/04/wmedia2_android_pin.png)

Before you can transfer your screen, a security query from Android will appear, indicating that you are sharing your screen with everyone.



https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia_android_streaming_confirmation.png



< [https://kindermann-](https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_android_presentation.png)
[manuals.com/wp-](https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_android_presentation.png)
[content/uploads/2021/08/wmedia2_android_presentation.png](https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_android_presentation.png)>

To end the transfer, disable "Share screen".

The "Fullscreen" option is available if more than one participant presents at the same time and the Klick & Show displays a split image on the display. With the activation of this function, your Android device will be displayed in full screen and the other active transfers(s) will be terminated.



< [https://kindermann-
manuals.com/wp-
content/uploads/2021/08/wmedia2_android_details.png](https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_android_details.png) >



[< https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_android_disconnect.png>](https://kindermann-manuals.com/wp-content/uploads/2021/08/wmedia2_android_disconnect.png)

By clicking on the device name you get further detailed information about the selected Klick & Show.

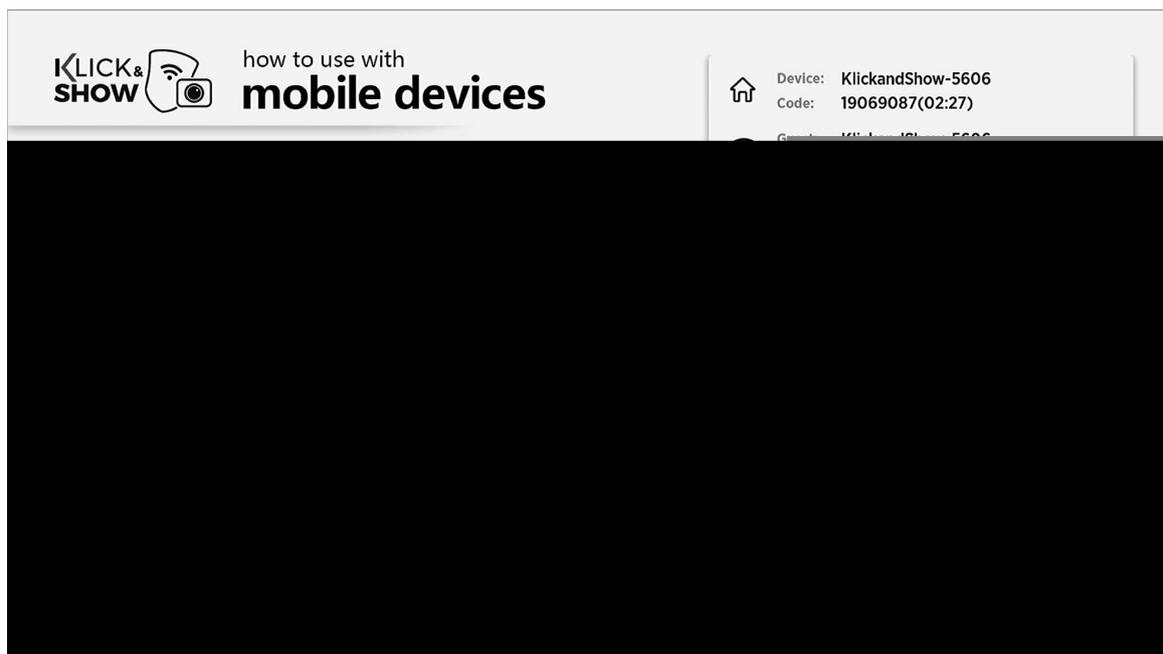
To disconnect, click on "Connected" and confirm the security question.



hint:

Details about the split screen function can be found in [chapter 7.1](#)

network also have access to the Klick & Show Base.



<https://kindermann-manuals.com/wp-content/uploads/2022/04/AirPlay-Nutzung-Screenshot.jpg>

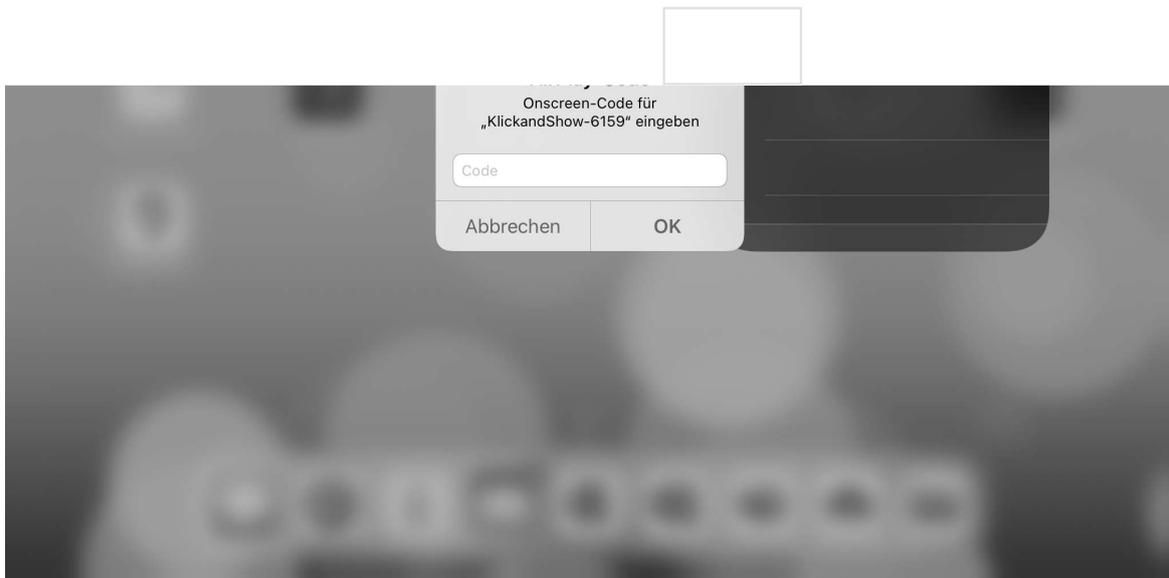
6.7.1 AirPlay on iPad or iPhone

On your Apple device, open Control Center and select Screen Mirroring. If your device is on the same network as the Klick & Show , it appears in the list. Select the desired Klick & Show to connect.



< https://kindermann-manuals.com/wp-content/uploads/2021/04/Airplay_ipad_cc_screen_mirroring.png >

You will be prompted to enter the 8-digit code that is displayed on the home screen.



https://kindermann-manuals.com/wp-content/uploads/2021/04/Airplay_ipad_code.png

Now your screen content will become Klick & Show mirrored and displayed on the connected display. You can recognize the active transfer by the AirPlay icon in the status bar:





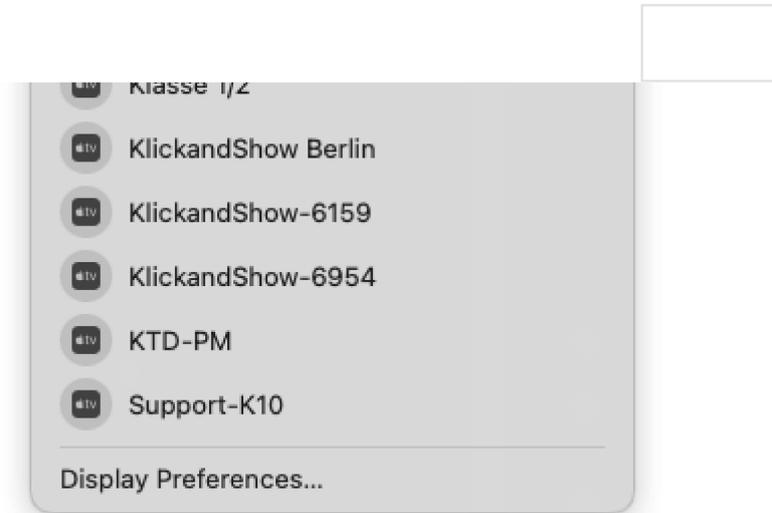
https://kindermann-manuals.com/wp-content/uploads/2021/04/Airplay_ipad_stop_transmission.png

To interrupt the transfer, open the Control Panel again with the appropriate gesture and select "Stop Mirroring".

6.7.2 AirPlay Options on macOS

On MacOS, AirPlay allows more options.

- Use as an "extended screen"
This means that the Klick & Show treated as an additional (extended) screen.
- Quality setting (scaling)
This allows you to choose between high display quality and improved performance.



< <https://kindermann-manuals.com/wp-content/uploads/2021/04/Screenshot-2021-04-08-at-09.40.05.png>>



<https://kindermann-manuals.com/wp->



English

displayed. These are the last 4 digits of the 8-digit code.



6.8 Use of Miracast

Supported from firmware version K1039 Klick & Show Miracast.



hint:

How to update the firmware of your Klick & Shows to the latest version can be read in [chapter 11.6](#).

Klick & Show K-FX supports both Miracast operating modes, the "Wifi direct mode" known from Consumer Electronic, in which a direct (peer to peer) connection between the transmitter and the receiver WLAN is established, and the professional infrastructure mode (**MS MICE** < https://docs.microsoft.com/en-us/openspecs/windows_protocols/ms-mice/9598ca72-d937-466c-95f6-70401bb10bdb >).

For MS MICE, Klick & Show are operating in one of the two **infrastructure modes** < <https://kindermann-manuals.com/en/klickandshow-manual-k-fx/#11.3> > and the computer or mobile device is connected to the corresponding network.

6.8.1 Using Miracast on Windows

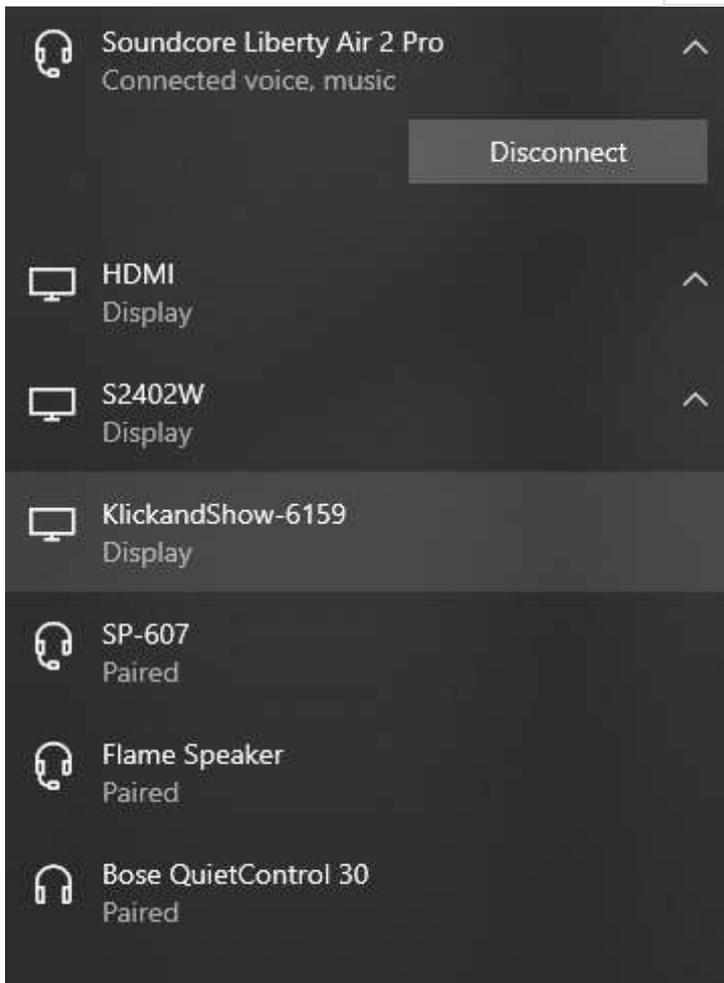
To connect via Miracast, you can optionally use the familiar keyboard shortcut Windows + P and then click on the link marked in red. This takes you to the connection menu, which you can also call up directly with the key combination Windows + K. Select Klick & Show and, if necessary, enter the code that appears on the home screen.



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[manuals.com/wp-](https://kindermann-manuals.com/wp-)

[content/uploads/2021/04/miracast_windows_connect_wireless_display.png](https://kindermann-manuals.com/wp-content/uploads/2021/04/miracast_windows_connect_wireless_display.png)>

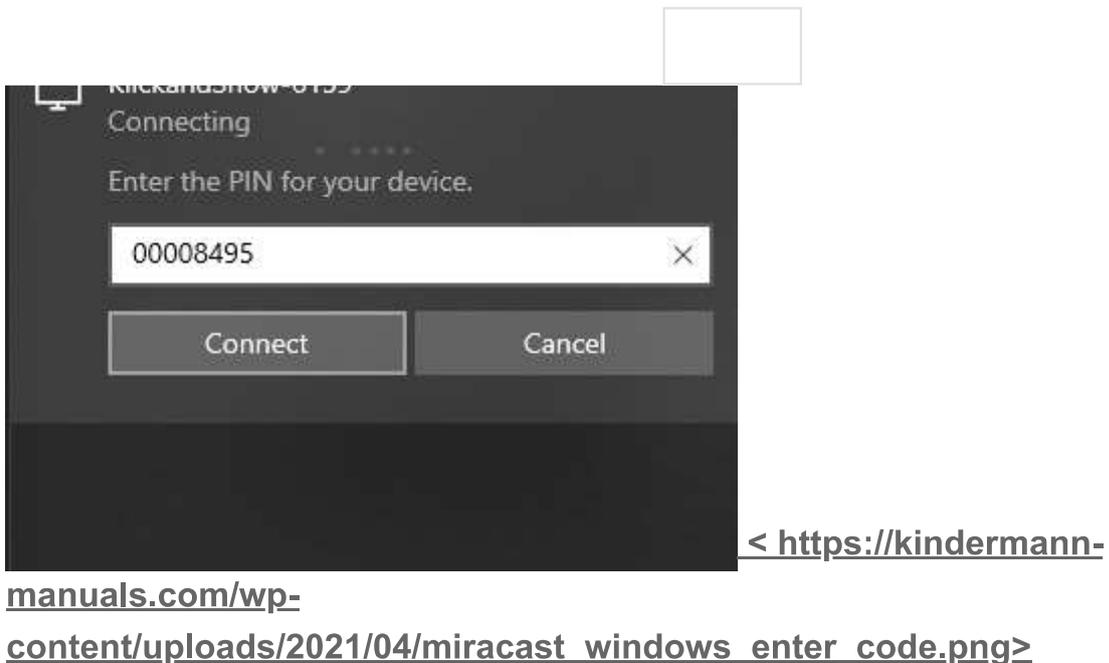


< <https://kindermann->

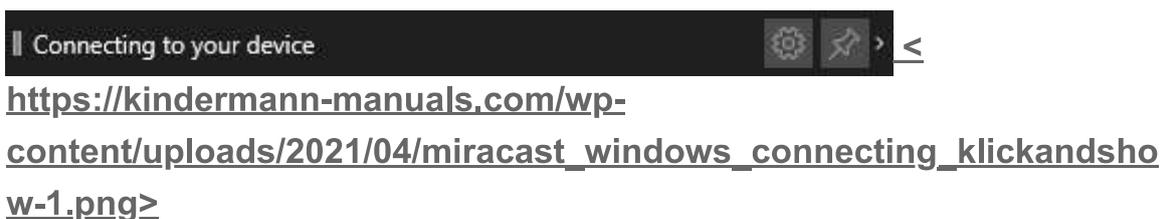
[manuals.com/wp-](https://kindermann-manuals.com/wp-)

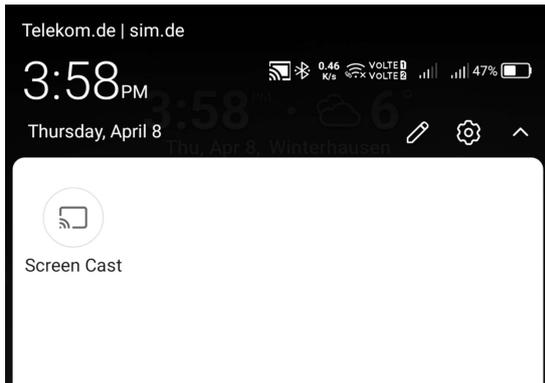
[content/uploads/2021/04/miracast_windows_chose_klickandshow.png](https://kindermann-manuals.com/wp-content/uploads/2021/04/miracast_windows_chose_klickandshow.png)

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A black bar appears at the top of the screen indicating the connection status. Here the transmission can also be disconnected again.





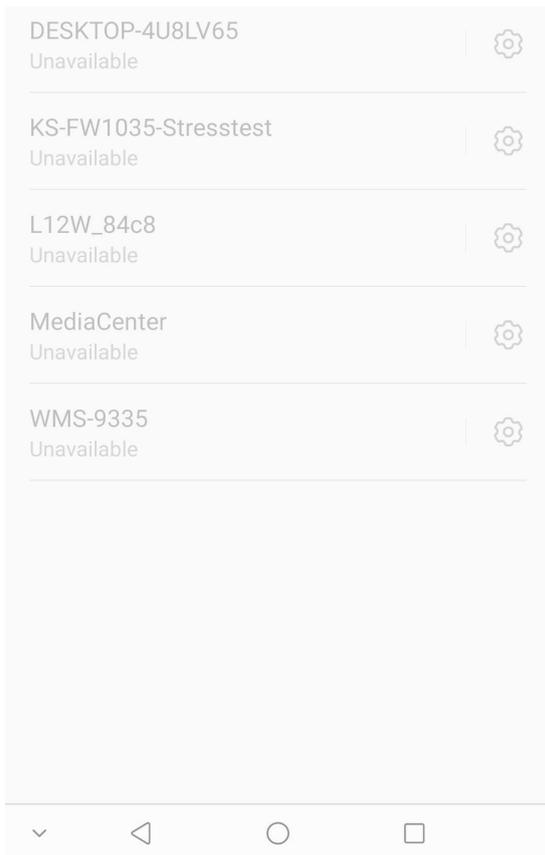
https://kindermann-manuals.com/wp-content/uploads/2021/04/miracast_android_select.png



Kindermann[®]
MANUALS



English



https://kindermann-manuals.com/wp-content/uploads/2021/04/miracast_android_device_selection.png



[< https://kindermann-manuals.com/wp-content/uploads/2021/04/miracast_android_active.png>](https://kindermann-manuals.com/wp-content/uploads/2021/04/miracast_android_active.png)

An active transfer will be in the status bar  displayed. To exit, disable the transfer.

6.9 Use of ChromeCast

Supported from firmware version K1048 Klick & Show ChromeCast.



hint: *How to update the firmware of your Klick & Shows to the latest version can be read*

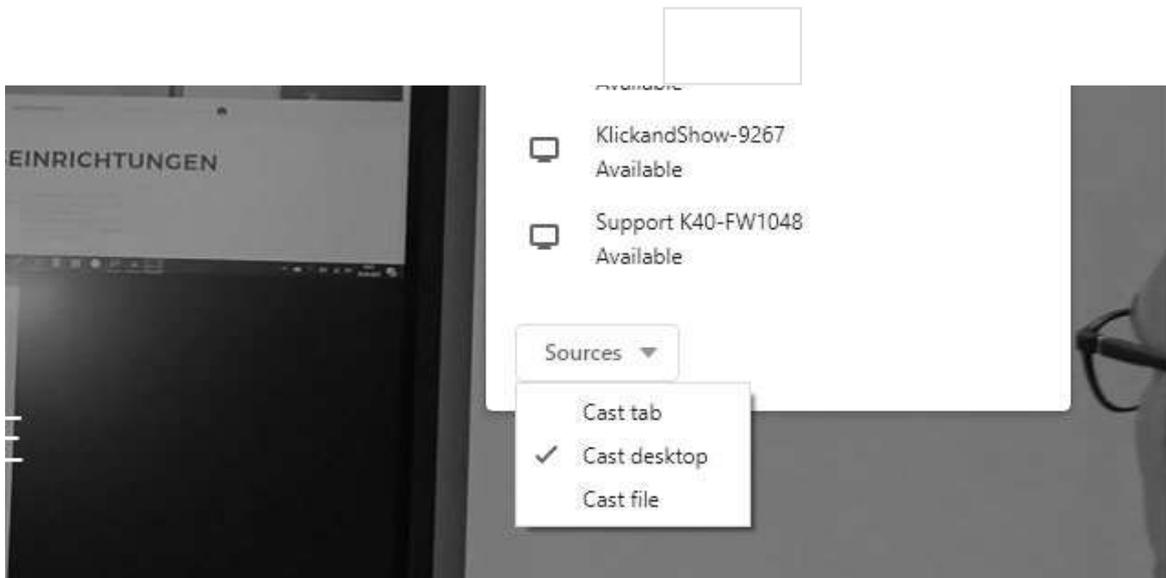
English



Is the Klick & Show Basically connected to a network via CAT cable, all other computers in this network also have access to the Klick & Show Base.

< https://kindermann-manuals.com/wp-content/uploads/2021/08/Chrome_select_cast.jpg >

Open the Chrome browser and select top right > Stream. Then click Sources. Here you can decide which part of your screen they want to share. You can choose between the current browser tab, the entire screen or a file. The selection cannot be changed during an ongoing transfer. If you want to change the source, you must first stop the transfer, select the new source, and start the transfer again.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/Chrome_select_device_tab_screen-2.jpg >

Then select the Klick & Show on which you want to show the content.

To exit, select the same menu or icon  and click Stop.



https://kindermann-manuals.com/wp-content/uploads/2021/08/Chrome_select_device_stop.jpg

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7. Splitscreen, Moderation & Tools

Klick & Show offers in addition to the basic function of screen sharing other helpful tools that can support users in the presentation and contribute to a productive meeting.

7.1 Splitscreen

In certain situations, it can be useful to display more than one screen, e.B. to compare different ideas or to show additional information that is difficult to combine on one screen.

English



<https://kindermann-manuals.com/wp-content/uploads/2022/04/Splitscreen.jpg>

Supported here Klick & Show the split-screen display of up to four sources simultaneously.
You can select the number and display in the WebUI.



https://kindermann-manuals.com/wp-content/uploads/2021/08/webui_moderator_screenlayout.jpg

The split-screen function is automatically activated as soon as more than one device simultaneously drives the image transmission. The assignment of the positions is done automatically depending on the order of the presentation.
As soon as a fifth source wants to be displayed, it "pushes" the first one out of the picture.



Hint:

To switch its screen from split screen to full screen, you can press and hold the dongle for 2 seconds.

In the WirelessMedia 2 app for Android, the "Full Screen" button performs the same function.

Airplay and Miracast do not support this feature, so all other devices must separate so that these devices can present in full screen.

7.2 Moderation



hint:

For the best possible user experience, we recommend using the follo

English



<https://kindermann-manuals.com/wp-content/uploads/2022/04/Touchscreens-Verwendung.jpg>

To enter the moderation menu, tap the arrow (1) that appears on the right side of the screen.

<https://kindermann-manuals.com/wp->

English



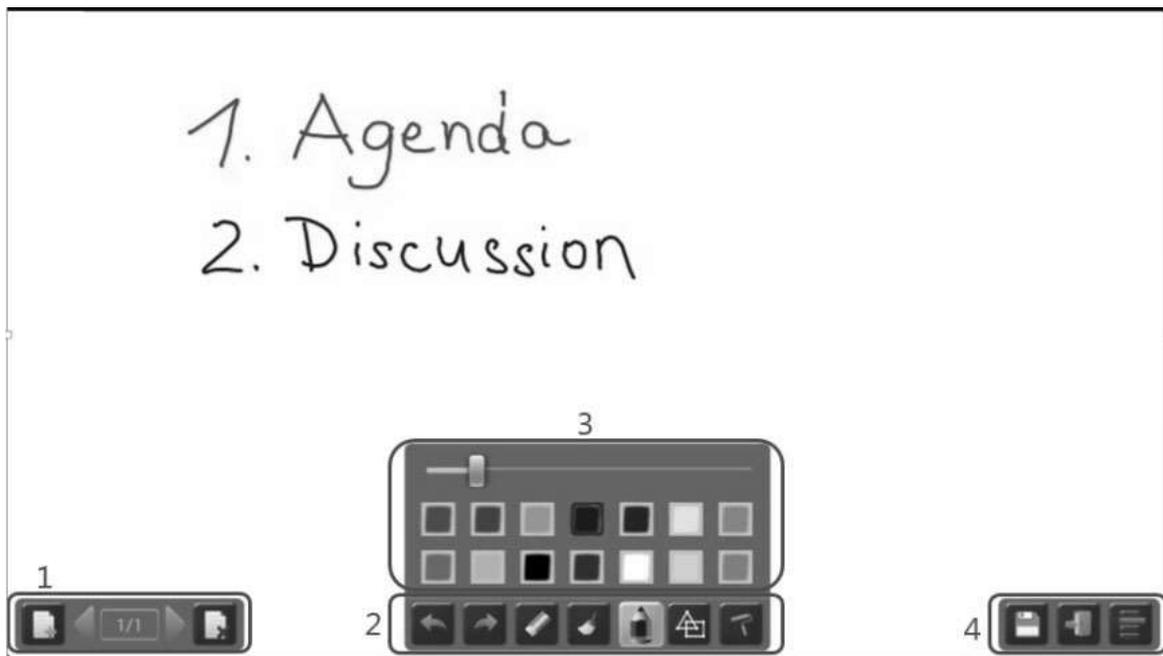
 **Note:**

This feature can be disabled via the [WebUI](#). In this case, no Pfeil or only a reduced menu is displayed, which allows access to the whiteboard and annotation function.

7.3 Whiteboard App



Tap the  Icon to open the "Whiteboard App" with a blank page.



<https://kindermann-manuals.com/wp-content/uploads/2021/06/screenshot-whiteboard-interface-neu.jpg>

Select a tool from the following table.



	<p>Show previous or next page</p>
Toolbar 2	<p>Undo the most recently performed action</p> <p>Restore the undone action</p> <p>Delete parts of the drawing (eraser); the width can be selected by long tapping</p> <p>Delete the entire drawing area</p> <p>pen for drawing or writing; the pen color can be selected by long tapping</p> <p>Draw a geometric shape; the color can be selected by long tapping</p> <p>Select/change background color (the previously created drawing is retained)</p>
Toolbar 3	<p>Appears when the blackboard color, shapes, or pen are pressed and held.</p>
Toolbar 4 file options	<p>Save as PNG and WMN (for further editing) The files can be downloaded from the base via a web address or QR code.</p> <p>Exit the whiteboard and return to the home</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;"> English </div>

(Attention: depending on the Security setting, the files are deleted regularly)

New Project – Opens a new whiteboard file

Save as: By entering a file name (as PNG and WMN, for further editing)

The files can be downloaded from the base via a web address or QR code.

Import from USB data carrier

Save as PDF file

The files can be downloaded from the base via a web address or QR code.

Clear history: – all previously created whiteboards and annotations in temporary memory will be deleted.

7.4 Annotation (notes)

In contrast to the whiteboard, the annotation function has no background, but works transparently on a "virtual layer" above the displayed video image. The original image remains unchanged.

Tap or click the  to open the function.



< <https://kindermann-manuals.com/wp-content/uploads/2021/06/screenshot-annotation-usage-neu.jpg> >

The following tools are available.



Toolbar1	<p>Delete parts of the drawing (eraser); the width can be selected by long tapping</p> <p>Delete all</p> <p>pen for drawing or writing; the pen color can be selected by long tapping</p> <p>Draw a geometric shape; the color can be selected by long tapping</p> <p>Stop annotation</p> <p>Save annotations (PNG format)</p>
-----------------	--

Saving Whiteboard/Annotation Files



Hint:

As soon as the last Wi-Fi connection to the Klick & Show For security reasons, the memory is automatically deleted so that subsequent users can no longer access the previously stored content.

You can configure this setting individually in the [security settings](#) of the WebUI.

When you save a file, you will be shown a QR code and a corresponding web address where the files can be downloaded.



<https://kindermann-manuals.com/wp-content/uploads/2020/09/whiteboard-download-qr.png>



Files on wmb:/

name	size	modify date	action
0.png	32.88 KB	19-03-05 nachm.12:31	download
1.png	22.71 KB	19-03-05 nachm.12:31	download
20190305123147.wmn	5.52 KB	19-03-05 nachm.12:31	download



Hint:

To access the stored files, your computer or mobile device must be connected to the same (Wi-Fi) network with the Klick & Show condition.

The number after the colon is the network port that must be shared to access the files.

English



8. Service functions

8.1 Coupling of transmitters (pairing)

When you purchase a set, the transmitters are factory-coupled to the respective base and ready for immediate use. However, as soon as you change the network configuration or, for example, if you purchase additional transmitters, you must recouple them.



Note: What does pairing mean?

*The base and transmitter communicate with each other via WLAN. As with a computer or mobile device, the transmitter must know which WLAN network (SSID) to connect to and which password it uses. This information is exchanged during pairing. A transmitter can only ever be attached to **one** Base to be coupled. The transmitter always connects to the last coupled base.*

Plug the USB port of the transmitter into one of the USB sockets on the Klick & Show Base. The transmitter is automatically detected and the process is started.



< https://kindermann-manuals.com/wp-content/uploads/2021/04/Screenshot_20210420-152024.png >

< https://kindermann-manuals.com/wp-content/uploads/2021/04/Screenshot_20210420-152033-1.png >

If you see the success message on the screen, you can simply pull off the transmitter. Proceed accordingly with all other transmitters.



< https://kindermann-manuals.com/wp-content/uploads/2021/04/Screenshot_20210420-152016.png >



< [English](https://kindermann-manuals.com/wp-</u></p></div><div data-bbox=)



< https://kindermann-manuals.com/wp-content/uploads/2021/04/Screenshot_20210421-154423.png >

< https://kindermann-manuals.com/wp-content/uploads/2021/04/Screenshot_20210421-154431.png >

If you see the success message on the screen, you can simply pull off the transmitter.

English



8.3 Delete older versions of WirelessMedia for Windows

If you receive an error message when you plug the USB-A transmitter into a laptop even though all programs have been updated, an older version is probably active on your computer.

The cleaning tool < <http://k40.klickandshow.com>> WindowsClear or MacClear can delete the traces of the old version. Run this file and start the current version of the starter program.

8.4 Restore factory settings (Reset)

A **hardware**reset is triggered by pressing the reset button on the Klick & Show Base. Alternatively, you can also initiate it via the administration interface. Both paths lead to the same result.



hint:

You can save the current configuration and read it back in after the reset.

- Turn on the base device.
- Once the home screen is visible, press the Reset button with a pointed object, e.B a bent paper clip. Press and hold the button for at least 2 seconds until the "Factory Reset" message appears. Klick & Show will restart after another 3 seconds with the factory settings.



<https://kindermann-manuals.com/wp-content/uploads/2020/09/screen-factory-reset.jpg>

- If you have no display connected, hold down the reset button until the **LED display** on the top lights up red to perform the reset.



Note:

All settings are lost and Klick & Show needs to be re-set up.

After resetting to factory settings, all transmitters must be paired (paired) again with the base device.

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9. Introduction to Network Configuration

9.1 Basic rules for WLAN

To ensure that the radio signals do not interfere with each other, "WLAN hygiene" is essential, i.e. You must ensure that only one access point broadcasts on each WLAN channel and, if necessary, on the directly adjacent channels. Otherwise, the signals overlap each other. In the best case, the data rate decreases, in the worst case, data

English



Difference between 2.4 GHz and 5 GHz frequency band

Two frequency bands are available worldwide for the use of WLAN. Both have advantages and disadvantages.

• 2.4 GHz

- Oldest standard – highest distribution and compatibility
- For technical reasons, longer range or better penetration due to the lower radio frequency
- Few, heavily frequented channels
- Lower bandwidth per channel

• 5 GHz

- More or less frequented channels
- More bandwidth per channel
- Due to technical reasons, short range and poorer radio penetration
- Compatible with modern, Wi-Fi-enabled devices



We recommend using the channel in the 5 GHz band.

To achieve the best transmission quality, we propose a "line of sight" between the Klick & Show Base and the transmitter or mobile device, so that the radio



Klick & Show supports three network modes:

1. [Access Point Mode](#)
2. [WLAN Infrastructures Fashion](#)
3. [LAN Infrastructures Fashion](#)

We recommend the Klick & Show Basis in LAN infrastructure mode and integrated into the network infrastructure. This is particularly recommended if several devices are installed in close proximity, e.B. in neighboring rooms or floors. This has several advantages:

- The built-in access point is disabled. There is no other Wi-Fi channel occupied and you do not have to worry about the design of the Wi-Fi landscape.
- Klick&Show can be reached via the existing infrastructure and can be administered centrally. This is more convenient and secure, as enterprise networks are usually actively managed and achieve a higher level of security.
- Users connect to the Klick&Show, there is no need to change the network connection several times.
- For hybrid access from the guest network, Klick&Show for example, can be integrated into a separate network segment that can be reached from both the internal and the guest network.



Hint:

In this context, please remember to provide sufficient bandwidth for the network! You can expect a data rate of 2 – 10 Mbit/s per active screen transfer. A data stream of 10 – 100 MBits/s is generated per active video transmission from the USB camera.



hint:

The instructions for configuring the different modes can be found from [Chapter 11](#).



hint:

In AccessPoint mode, the 8-digit code displayed on the home screen is also the WLAN password.

<https://kindermann-manuals.com/wp-content/uploads/2022/04/Access-Point-Modus.jpg>

Access Point Mode – Stand-Alone



hint:

In stand-alone mode, no meaningful use of the BYOM function is possible because

English



In this configuration, the Klick & Show additionally wired (CAT cable) connected to another network. This network connection can be used internally in the Klick & Show are forwarded (bridging) and is thus also available to users who are directly involved in the Klick & Show Dial in the access point.



<https://kindermann-manuals.com/wp-content/uploads/2022/04/Access-Point-Modus-with-wired-Bridging.jpg>



ATTENTION:

It depends on the configuration of the wired network whether only the Internet access or the complete access to the company and/or campus network is shared in this way.

Therefore, please check this step very carefully and close the Klick&Show not without prior approval of the IT department to a network cable.

In this configuration, the WLAN password and thus possibly the complete access to your network is in plain text on the home screen!

When bridging is active, the icon



for "Connected network (LAN + WLAN)" on the home screen.

You can also operate both network accesses separately, then this is Klick & Show still accessible from the wired network. Devices connected to Wi-Fi cannot communicate with those on the wired network and vice versa.



The icon

for "separate networks (LAN + WLAN)" is displayed on the home screen.



<https://kindermann-manuals.com/wp-content/uploads/2022/04/Access-Point-Modus-with-wired-Bridging-disconnected.jpg>

For example, a separation between guest and company network can be realized. Guests and transmitters connect directly to the Wi-Fi of the Klick & Show Basis, where employees use the internal network infrastructure and thus retain their access to network drives, etc.

9.3 Infrastructure modes

The infrastructure modes allow Klick & Show into a structured network. This can be done via WLAN or cable. The access point function is deactivated in both cases.



hint:

We recommend the use of infrastructure modes if the following criteria are met:

1. Existing, powerful, administered WLAN network
2. Client devices are operated and administered over the same network
3. Use of many clicks & shows (in the immediate vicinity)
4. Permanent installation of Klick & Show

*Please coordinate details as well as the necessary access permissions and **port shares** with the responsible network administrator.*



9.3.2 LAN infrastructure mode

In LAN infrastructure mode, the base is connected to a network via network cable. The communication of the transmitters and the software clients must also take place over this network. Prerequisite for the use of the transmitters is a WLAN network that is connected to the wired network. Pairing provides the transmitters with the necessary information.



< https://kindermann-manuals.com/wp-content/uploads/2022/04/K-FX-Anwendungsbeispiel_infrastruktur_mode.jpg >

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10. WebUI

10.1 Home – Software Download

The Klick & Show K-40 Series has an extensive user interface, hereinafter referred to as WebUI, which can be accessed via browser.

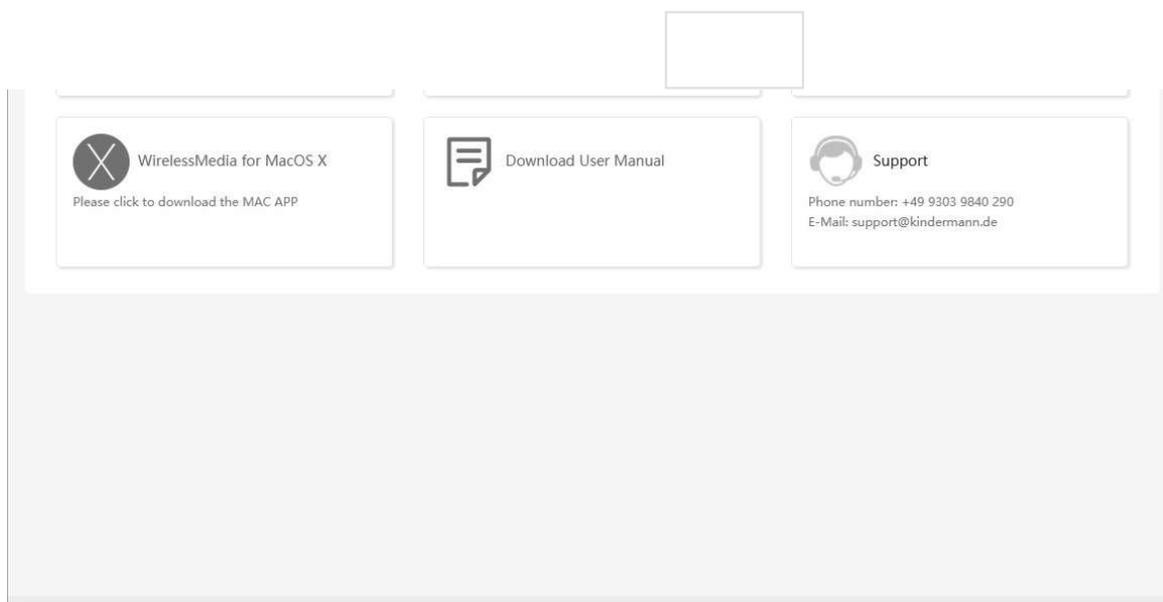
English



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Netzwerk-Screenshot.jpg> >

On the "start page", which is accessible to everyone, users can download the latest software and access the online help.

Integrators or the internal IT department can enter the contact details of the [User Helpdesk](#) here. The contact details of Kindermann are entered in the delivery state and as the default setting.



https://kindermann-manuals.com/wp-content/uploads/2021/04/WebUI_landing.jpg

10.2 Go to the administration menu

Call up the WebUI of the respective Click & Shows via its IP address in the browser. A click on

the gear icon
password here.

In the upper right corner, the login window opens. Enter the login



< https://kindermann-manuals.com/wp-content/uploads/2021/04/WebUI_admin_login.jpg >

The default password on delivery or after a reset is **"admin"**.



hint:

You can change the admin password or deactivate the password query in the menu item **Security Settings**. If you forget the password, you must reset the base to factory settings via **reset**.

After logging in, you have access to all configuration options of the system.

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English



hint:

*Changes to the network configuration can only be made via a **wired** network connection!*

In the menu Network Settings -> WLAN configuration, select the button "Edit" to set up the WLAN connection.

https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_landing_admin_mode.jpg



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step1.jpg

Now you can set the device name of your Klick & Show Change base. We recommend using a name that **speaks for itself**, e.B. based on the room name. The default name is KlickandShow-xxxx.

In Access Point Mode, the device name is also the WLAN id (SSID)!



hint:

*The name can only contain letters "a-z", "A-Z", digits "0-9" and the characters "-_".
National special characters can lead to problems e.B. with Apple AirPlay.*



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step2-1.jpg

In the next step, select the network operating mode "Access Point Mode", so that works Klick & Show as an access point. Transmitters and mobile devices connect directly to the Klick & Show Base.



hint:

*An explanation of the different modes can be found in **Chapter 9**. The two infrastructure modes are described in the following chapters.*

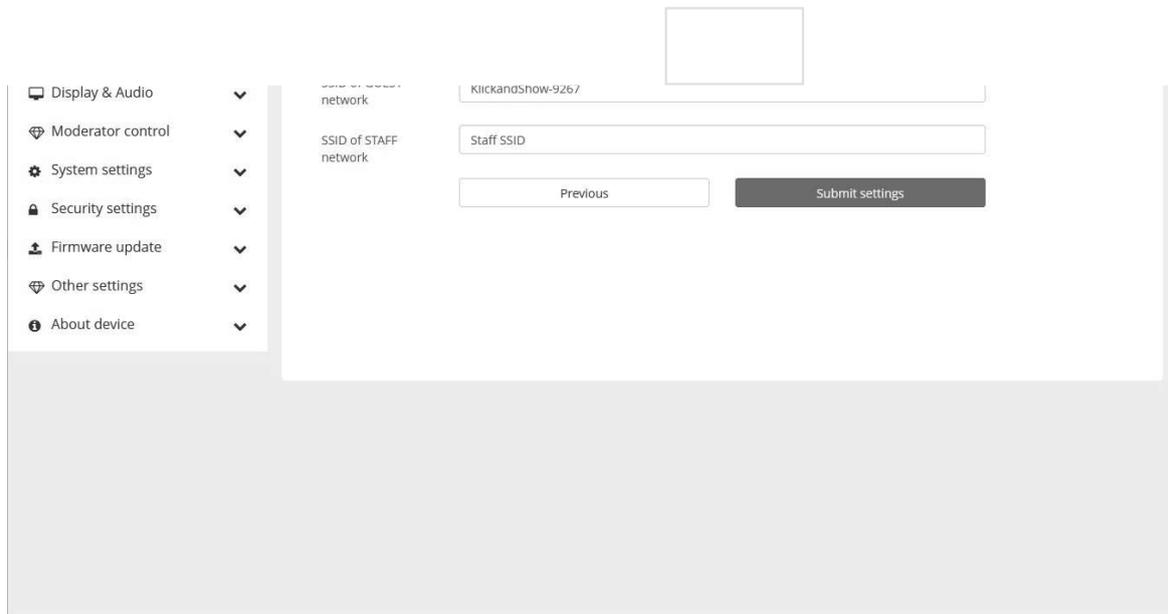


https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step3_wireless_direct.jpg

In step 3, you perform the actual network configuration. Select whether the wired network connection on LAN port 1 or 2 should be accessible via WLAN via the access point (**bridging**) or not.

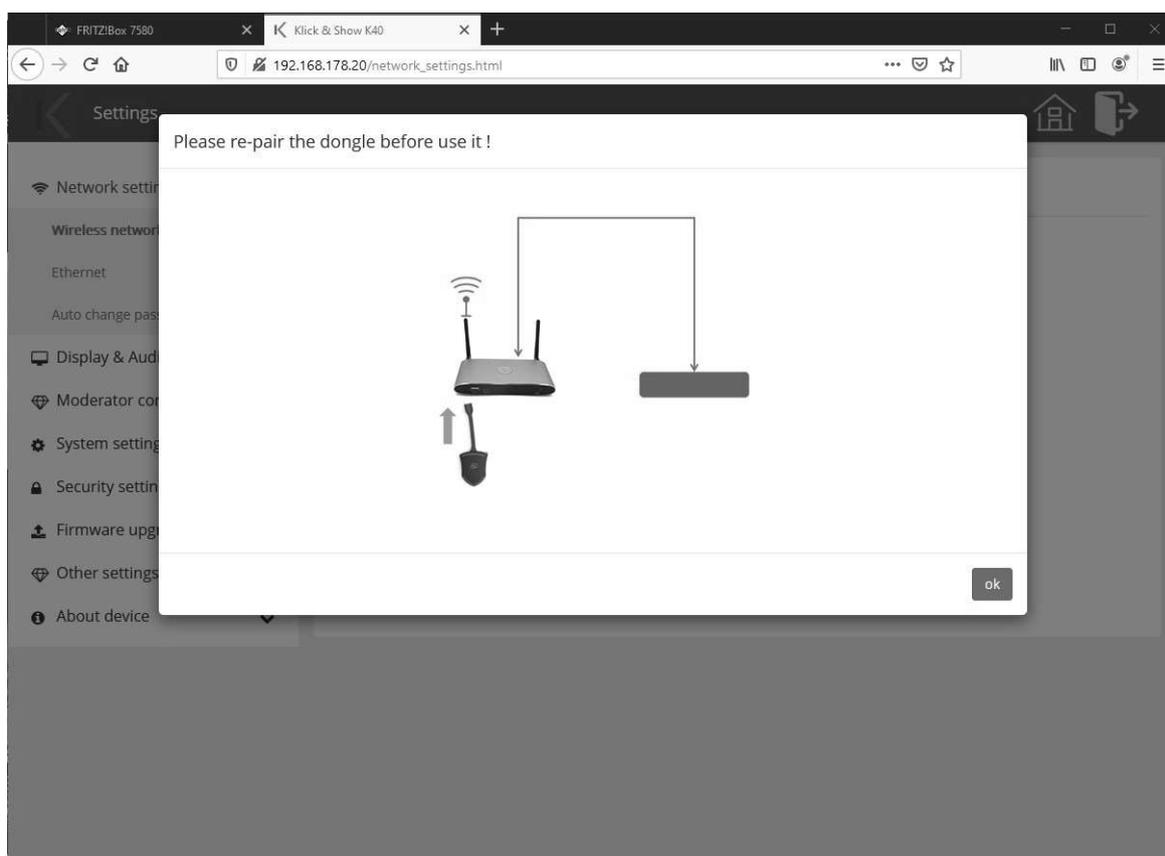
Furthermore, you can carry out the WLAN configuration of the access point at this point.

- **Show SSID: Yes/No**
The default is Yes. If you select "No", the Wi-Fi network ID is hidden, i.e. it is not displayed in the list of available networks. However, if you know the SSID, you can manually connect to the Wi-Fi network.
- **Frequency band: 2.4 or 5 GHz**
- **Channel: Choose a free Wi-Fi channel**
- **Password: The WLAN password is automatically assigned in the standard configuration and updated at specified intervals, so the field can remain empty. If you want to work with your own permanent password, you have the option to assign one at this point.**
In this case, the **change interval** must also be defined as "Never"!



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step4_wireless_direct.jpg

Here you can enter the WLAN SSID information for a guest or company or campus network. These are displayed on the home screen (3 and 4).



< https://kindermann-manuals.com/wp-content/uploads/2021/04/WebUI_Wireless_network_step4_wireless_direct_dongle_pairing_reminder.jpg >

Finally, you will be reminded to re-pair (pair) the dongles after the changes to the network configuration.

11.1.2 Wireless Infrastructure Mode

In this operating mode, the Klick & Show System is integrated into an existing WLAN network.

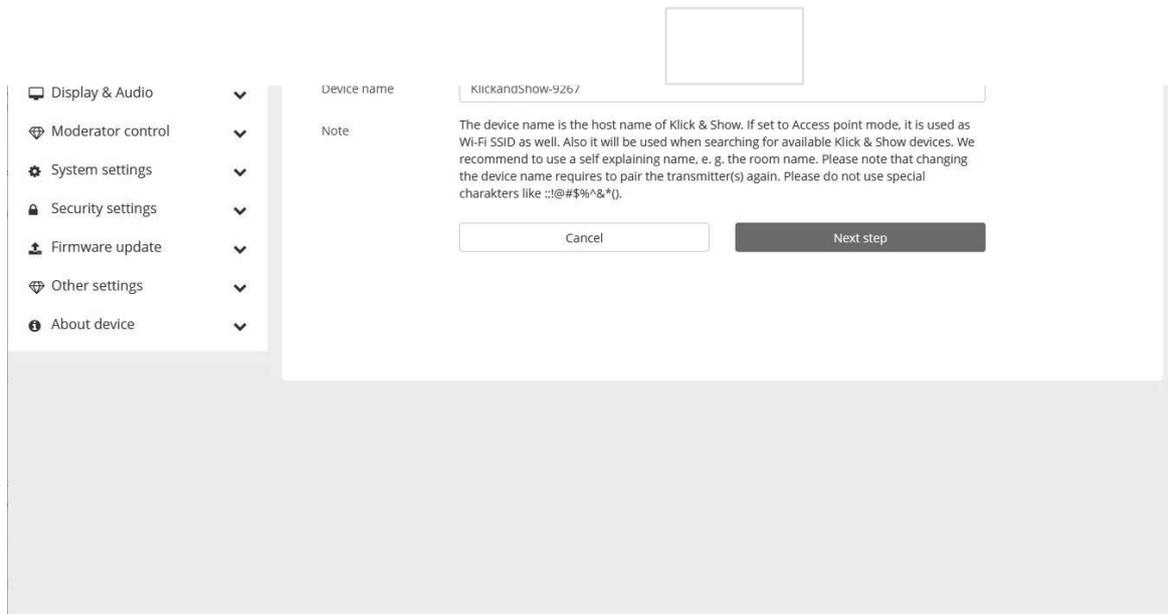


Changes to the network configuration can only be made via a **wired** network.

English



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_landing_admin_mode-1.jpg >



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step1-1.jpg

Now you can set the device name of your Klick & Show Change base. We recommend using a name that **speaks for itself**, e.B. based on the room name. The default name is KlickandShow-xxxx.

The device name is displayed both on the home screen and in the list of available clicks & shows on a network, e.B. in the WirelessMedia Software Client.



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_infrastruktur_step2.jpg

In the next step, select the network operating mode "Wireless Infrastructure Mode".



hint:

*An explanation of the different modes can be found in **Chapter 9**. The two infrastructure modes are described in the following chapters.*



https://kindermann-manuals.com/wp-content/uploads/2022/04/WebUI_Wireless_infrastructure_step3-1.jpg

In step 3 select the WLAN network with which the Klick & Shows basis and the transmitters want to connect. If you want to use separate WLAN networks, you have to configure them accordingly so that the transmitter can communicate with the base.

Decide whether you want to use the Klick & Show with a 2.4 or 5 GHz WLAN network. Depending on this, please activate or deactivate the checkbox "ONLY 5GHz".

Now select the SSID from the list of found networks in which you Klick & Show and enter the WLAN password in the field below. Klick & Show will try to log in to the WLAN immediately after entering the password. The status icon gives you feedback whether the registration was successful or not.



hint:

If the desired SSID does not appear in the list of found networks, repeat the scan operation or verify that you have selected the correct frequency range.

When choosing, make sure that the level is as high as possible to ensure a stable and high-performance connection.



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step4_wireless_direct-1.jpg

Here you can manually enter the WLAN SSID information for a guest or company or campus network. These are displayed on the home screen (3 and 4).

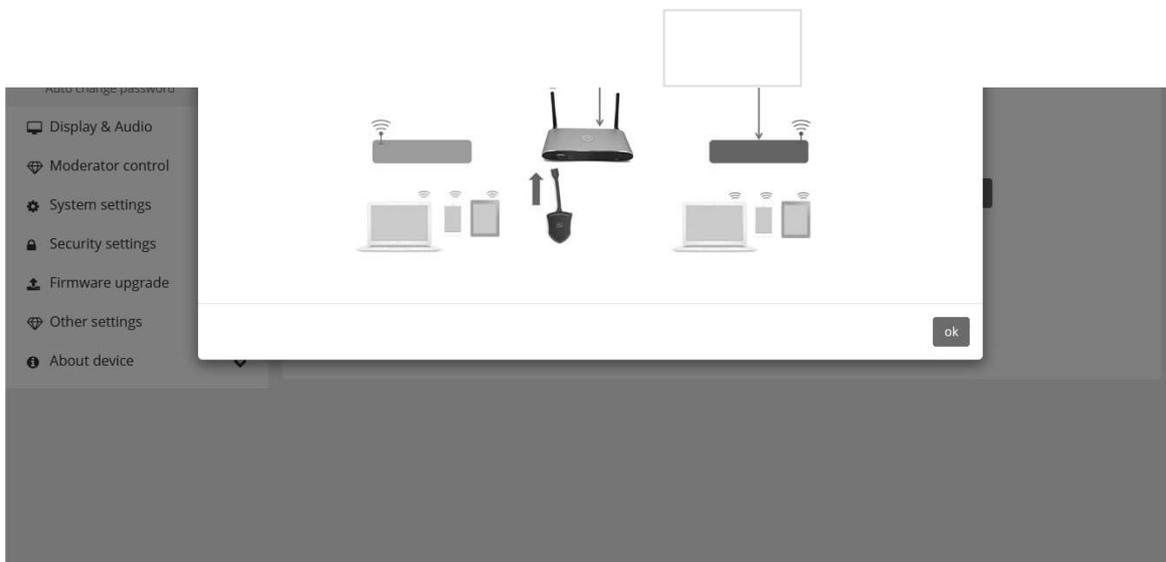


< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Wireless-Infrastruktur-Modus-Homescreens-1.jpg> >



hint:

This is a pure information field. You do not make any network configurations at this point.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_Wireless_infrastructure_step5.jpg >

Finally, you will be reminded to recoup (pair) the dongles after the changes to the network configuration.

11.1.3 LAN infrastructure mode

In this operating mode, the Klick & Show Connected to a structured network via a wired network connection (LAN). Configuring the Ethernet settings can be found in the next [chapter 11.1.4](#).



hint:

*Changes to the network configuration can only be made via a **wired** network connection!*

In the menu Network Settings -> WLAN configuration, select the button "Edit".



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_landing_admin_mode-2.jpg >

STEP 1:

< [English](https://kindermann-manuals.com/wp-</u></p></div><div data-bbox=)



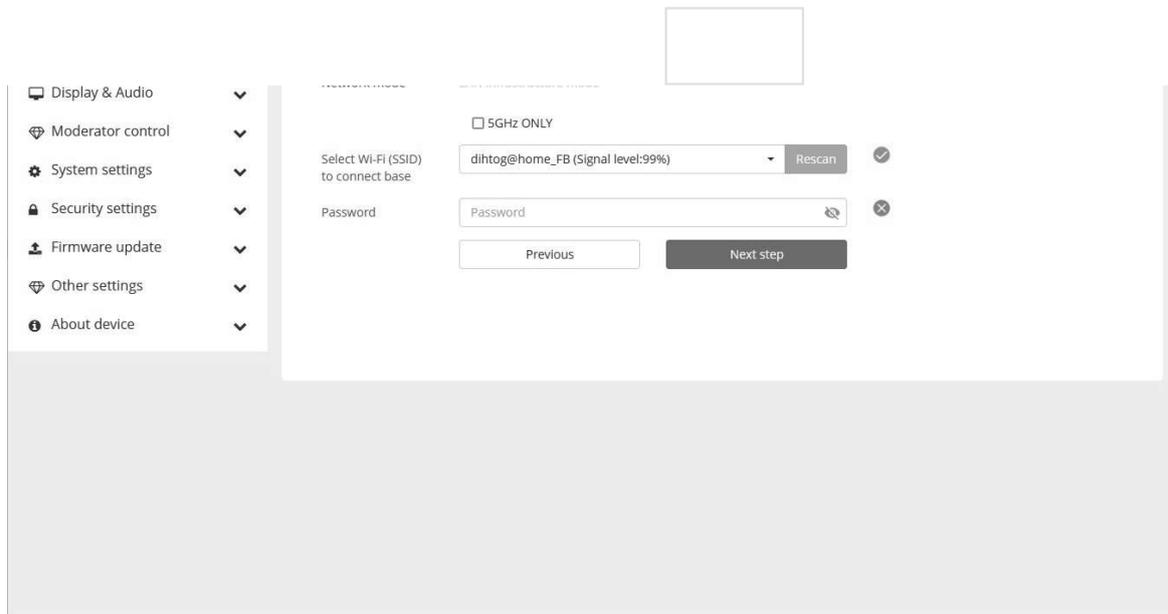
STEP 2:

[< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_LAN_infrastructure_step2-1.jpg >](https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_LAN_infrastructure_step2-1.jpg)

In the next step, select the operating mode "LAN Infrastructure Mode".



An explanation of the different modes can be found in [Chapter 9](#). The two infrastructure modes are described in the following chapters.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_LAN_infrastructure_step3.jpg >



In LAN infrastructure mode, the internal WLAN access point is switched off. In order to be able to use the transmitters anyway, they must connect to a WLAN network via which a communication with the Klick & Show is possible. You can select this network at this point. The access data is transmitted to the transmitters by pairing.

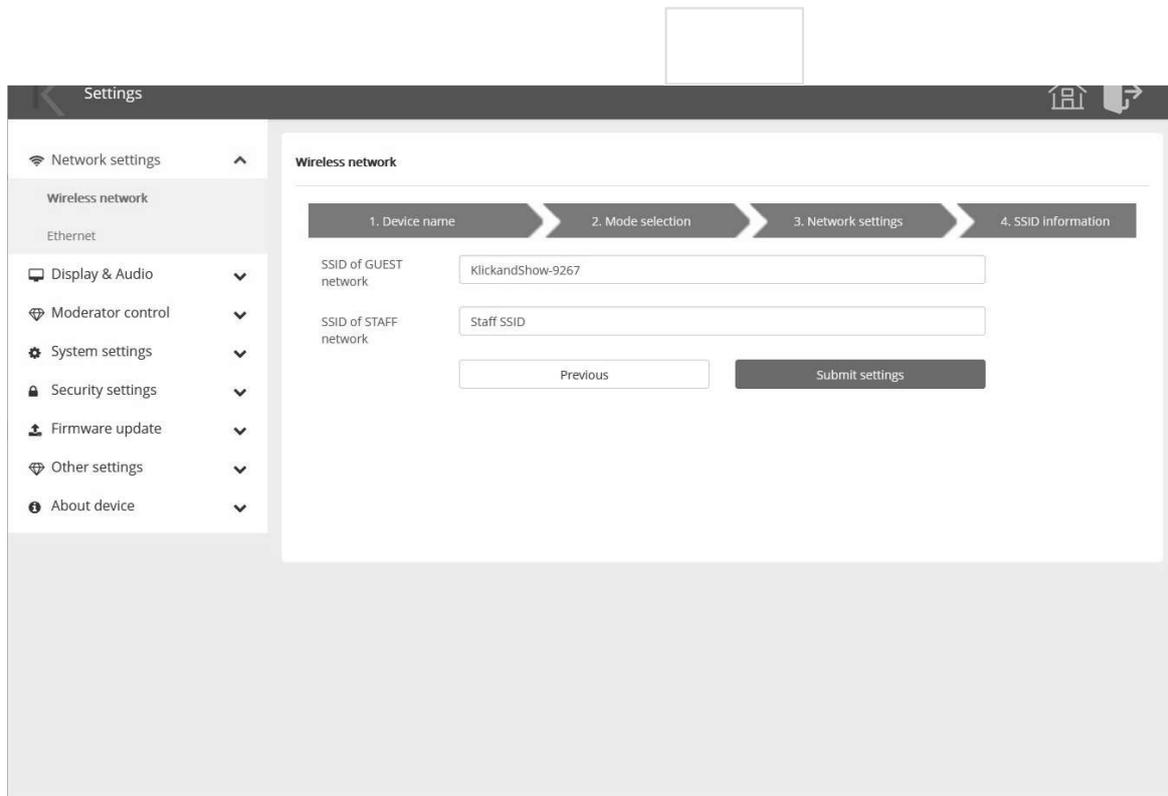
Decide whether you want to use the Klick & Show with a 2.4 or 5 GHz WLAN network. Depending on this, please activate or deactivate the checkbox "ONLY 5 GHz".

Now select the SSID from the list of found networks in which you Klick & Show Transmitter and enter the WLAN password in the field below. Klick & Show will try to log in to the WLAN immediately after entering the password. The status icon gives you feedback whether the registration was successful or not.



If the desired SSID does not appear in the list of found networks, repeat the scan operation or verify that you have selected the correct frequency range.

English



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Wireless_network_step4_wireless_direct-2.jpg

At this point you can manually enter the WLAN SSID information for a guest or company or campus network. These are displayed on the home screen (3 and 4).

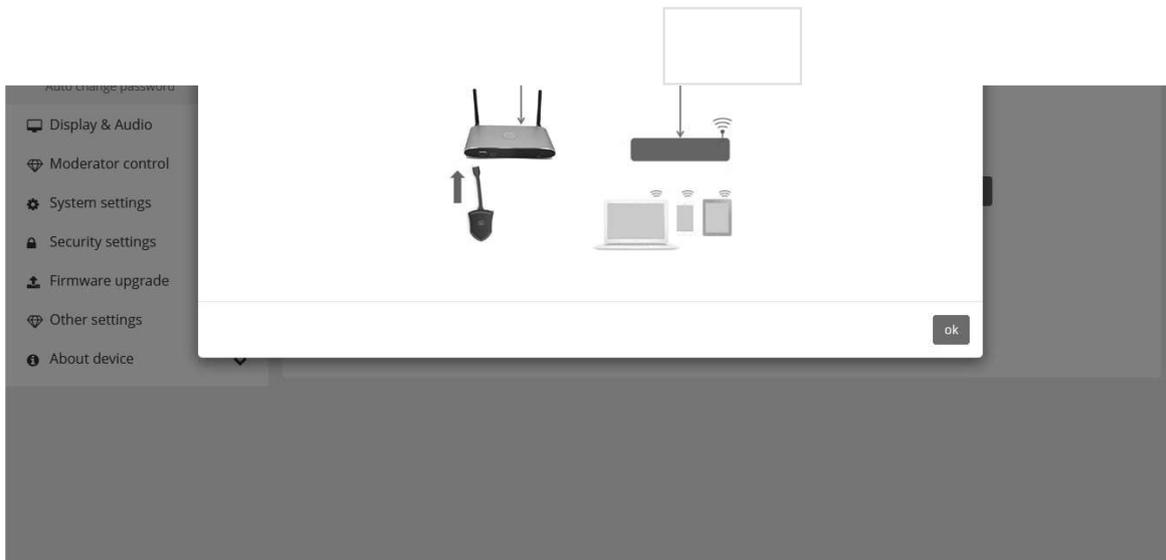


< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Wireless-Infrastruktur-Modus-Homescreens-1.jpg> >



hint:

This is a pure information field. You do not make any network configurations at this point.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_LAN_infrastructure_step5.jpg >

Finally, you will be reminded to recoup (pair) the dongles after the changes to the network configuration.

11.1.4 Network – Ethernet

From the Network Settings menu, select -> Ethernet



Hint:

Klick & Show has two LAN ports. These are separate, so both LAN networks remain segmented.

LAN2 also supports the power supply of the device via PoE and is Gigabit capable.

Thus, the Klick & Show e.B be connected to an in-house network and a guest network without establishing a direct connection between the two networks.

To configure, select the tab for the desired LAN port:



https://kindermann-manuals.com/wp-content/uploads/2023/03/11-1-4_Network-Ethernet.png

Proxy & IP Settings

- **DHCP (Enable):** Klick & Show receives its IP address dynamically from a DHCP server on the network.
If DHCP has been enabled, the following points cannot/must not be configured.
DHCP (Disable): Klick & Show is manually assigned a fixed IP address. A static IP can facilitate administration and increase reliability.
- **IP address:** Enter the IP address that the Klick & Show should be accessible in the network.
- **Mask:** Enter the network filter mask here.
- **Gateway:** Enter the IP address of the gateway here – if necessary.
- **DNS1:** Enter the primary DNS server.
- **DNS2:** Enter secondary DNS server (optional).
- **MAC:** Displays the MAC address of the LAN port. This cannot be changed.

To save the settings you have made, click on "Confirm Settings".

The second LAN port can be configured separately according to the above pattern and has its own MAC address.

Set up wired authentication

English



A wizard guides you through entering the required parameters:

Authentication: Selection of EAP-TLS, EAP-TTLS, PEAP and "No authentication"

Domain: Enter the domain listed in the server certificate here

Identity: Enter the "Identity" (e-mail address) associated with the user profile

Password: Enter the password assigned to this user profile here.

For EAP-TLS only, the following section is relevant:

Deploy certificate: Manually deploy client and CA certificates

Upload client certificate (**PEM**): **Provide the client certificate** in PEM format here

Upload client certificate key: Provide the certificate key of the client certificate here

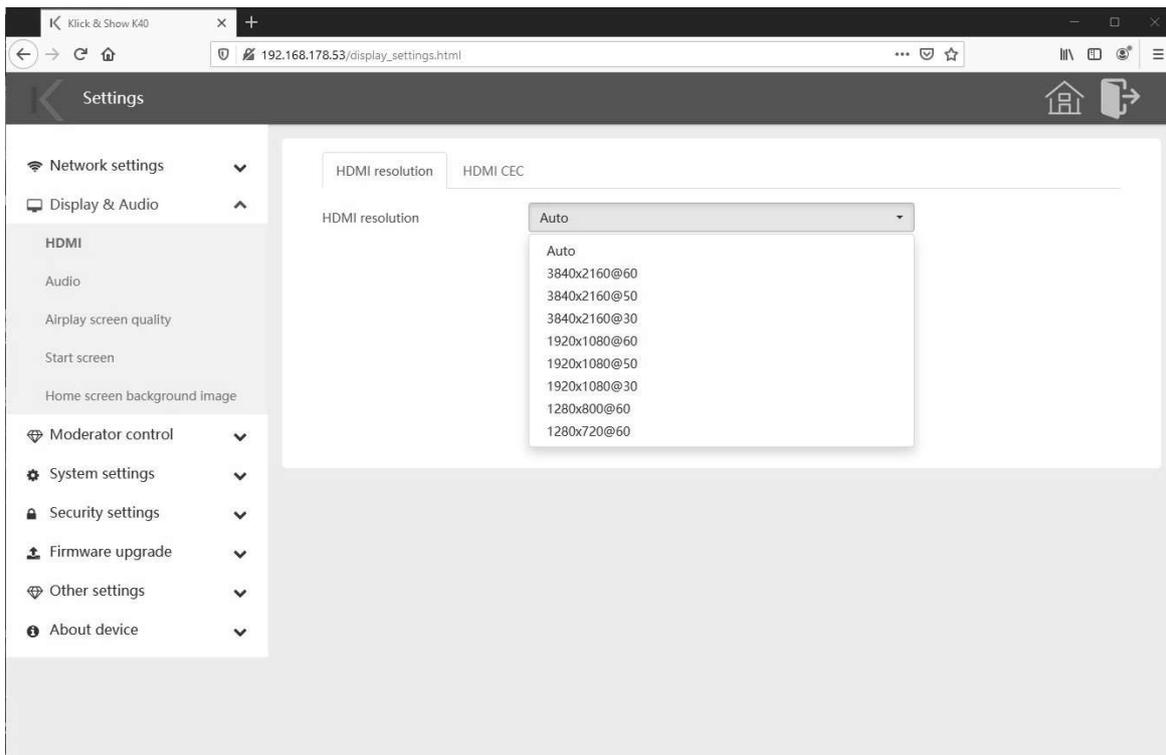
Client Certificate Password: Enter the password associated with the client certificate here

Upload CA certificate: Provide the CA certificate here

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English

(e.g. display) and select the best available setting. If you are not satisfied with the image quality, you can choose a suitable one from the list of available resolutions.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_HDMI.jpg >



If the newly selected resolution cannot be displayed, the previously active resolution is displayed again after approx. 15 s.

11.2.2 CEC

CEC is the Consumer Electronics Control (protocol) standardized by the HDMI organization. Klick & Show supports the command sets for power on and off. If your playback device (e.g. display) is also compatible with this, it is possible to switch the display (e.g. display) via the Klick & Show Automate the basis via it.

English



< https://kindermann-manuals.com/wp-content/uploads/2022/04/WebUI_HDMI_CEC.jpg >



Hint:

Please check if the display or projector supports CEC. Sometimes only certain inputs on the device support CEC.

11.2.3 Audio output

The audio output can be done either via the analog jack output and/or via the digital HDMI output.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Audio-1.jpg >

11.2.4 Volume

You can limit the playback volume, e.B. to avoid exceeding a certain level.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Audio_volume.jpg >

11.2.5 AirPlay image quality

Set the image quality of the [AirPlay](#) transmission here.
You can choose from:

- High: 1920×1080 (default)
- Medium: 1600×900
- Low: 1280×720



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Airplay.jpg >



hint:

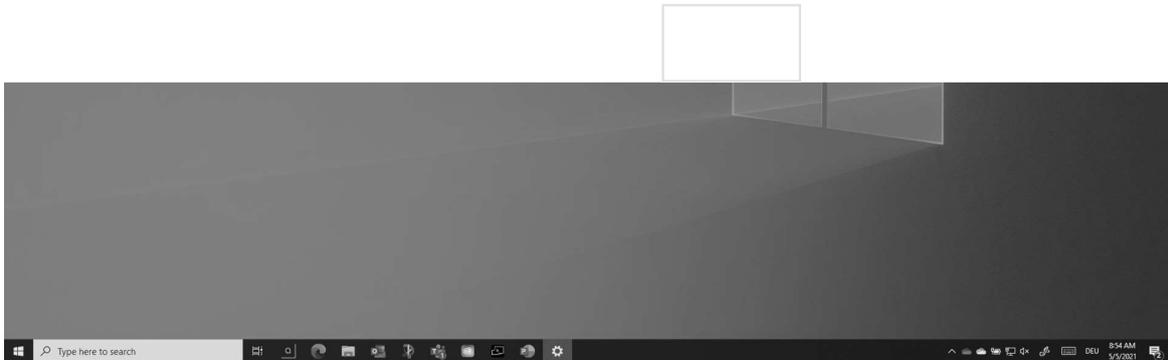
The higher the quality the more data is transferred, a lower quality can mean a smoother transmission.



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Startscreen.jpg

Here you can decide which information from the Klick & Show on the home screen or during the presentation.

- **Display the device name and password of the base when mirroring**
Displays the guest SSID and code in a small semi-transparent window during transmission.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/Floating_Window-1.png >

- **When mirroring, show the user name of the PC**
At the beginning of a transfer, briefly displays the user or device name of the presenter.
- **Hide connection information**
Hides all connection information (SSIDs, code, IP addresses) on the home screen.
- **Set a change interval for the home screen**
Defines the time interval in which the individual pages of the home screen are changed.

11.2.7 Home Screen Wallpaper

You can customize the home screen. To do this, click on the "+" and select the desired file. The individual background image is automatically activated. You can delete the individual home screen wallpapers and/or reactivate the default wallpaper at any time.

English



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_homescreen_background.jpg

If you choose an individual background, you have three additional settings available.

- Move the position of the watch – if this option is activated, the watch can be moved freely from its default position in the lower right corner of the screen.
- Move the position of the infobox – if this option is activated, the infobox (SSIDs, code, etc.) can be moved freely on the screen from its default position in the upper right corner.
- Hide clock – hides the time and date display on the home screen.



Hint:

To be able to move the elements, you must use the Klick & Show Operate the base on a touch screen or temporarily connect it to a mouse.

English

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11.3 Moderator control

11.3.1 Moderator Control

[< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Moderator_control-1.jpg >](https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Moderator_control-1.jpg)

- **Disable moderator control**
The menu cannot be accessed.

- **Small menu**

A gray arrow appears on the right side of the display. By tapping

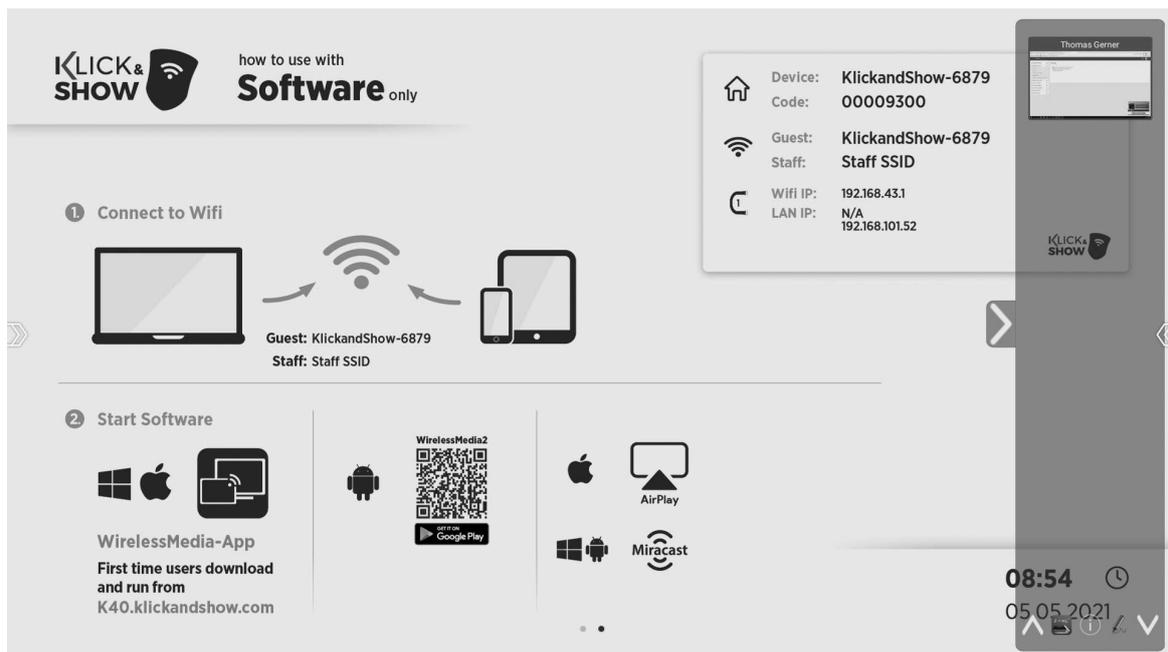
English



< https://kindermann-manuals.com/wp-content/uploads/2021/05/Moderator_Mode_deactivated-1.png >

- **Large menu**

If you activate this function, all connected devices including live preview are displayed and can be selected by tapping and brought to the presentation by the moderator. (Preview available when using the transmitters, wireless media clients for Windows or MacOS.)



< <https://kindermann-manuals.com/wp->

English



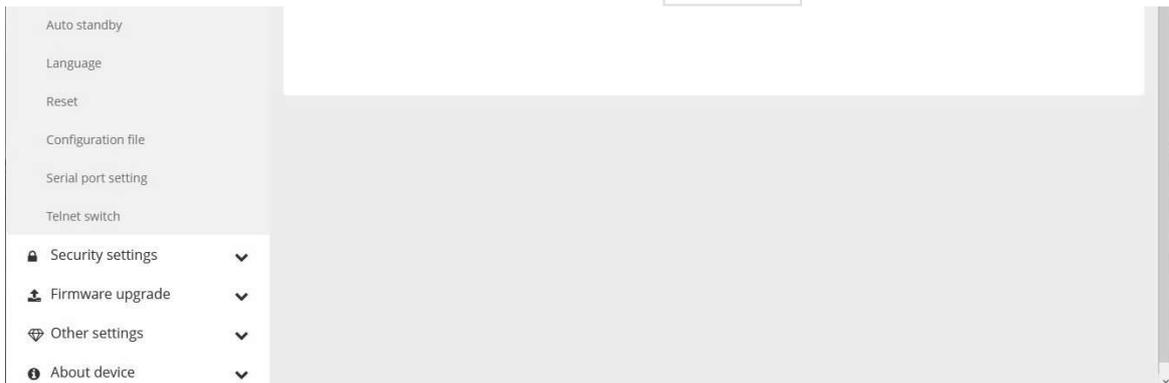
[≤ https://kindermann-manuals.com/wp-content/uploads/2021/08/webui_moderator_screenlayout.jpg ≥](https://kindermann-manuals.com/wp-content/uploads/2021/08/webui_moderator_screenlayout.jpg)

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11.4 System Settings

11.4.1 Transmitters

The tab "Transmitter" shows an overview of all connected, send-ready and sending transmitters and software clients that are connected to the base.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_system_transmitter.jpg >

Displays the type, Mac address, serial number, software version, device status, and recent activity. The transfer can be started or interrupted via the "Operate" function. With the "Columns" button at the top right, this information can be shown or hidden individually as required.



hint:

Connections or transmissions from AirPlay, Miracast and ChromeCast do not support this feature and are therefore not displayed.

Under the "Paired" tab, all transmitters that have ever been connected to this channel are listed. Klick & Show On the other hand, there is a need for a more flexible approach to the problem

The name of the HDMI and USB-C transmitters can be changed at this point, for example, the room assignment can be made.

With the "Remove" button (garbage can) individual or all devices can be selected and decoupled (separated). Before the next use at this base, these must then be retrained. In this way, abusive transmissions of stolen transmitters can be prevented.



< https://kindermann-manuals.com/wp-content/uploads/2022/04/WebUI_system_paired.jpg >

11.4.2 Date and time

Under the "Date & Time" tab, the display format can be selected and the time setting can be automatically obtained from a time server from the Internet or assigned manually (e.B. if there is no connection to the base and the Internet).

Optionally, the default time server on the Internet, e.B. can also be replaced by a local server.

Under the "Time Zone" tab, this can be selected accordingly.



< https://kindermann-manuals.com/wp-content/uploads/2022/04/WebUI_system_time.jpg >

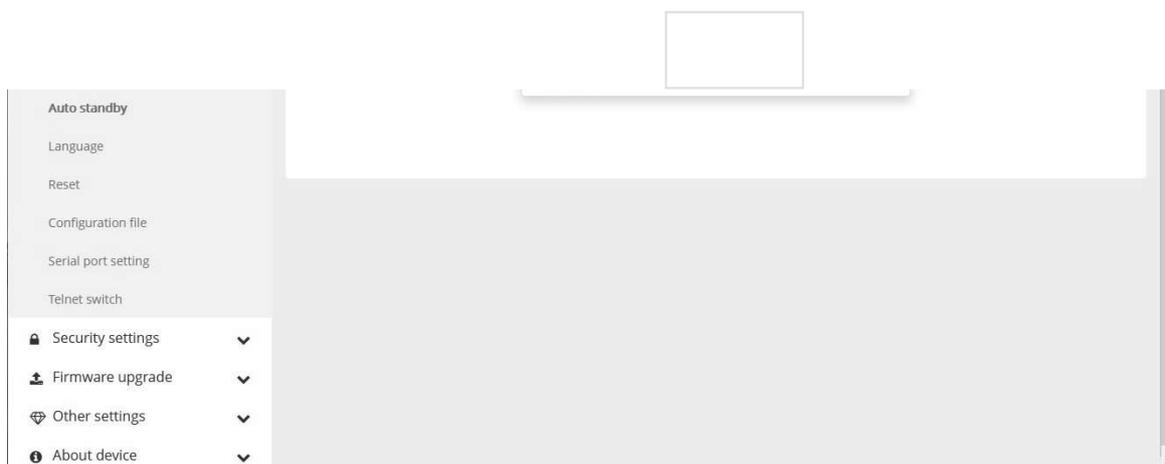


Hint:

In the factory setting, the Klick & Show Basic access to a time server, otherwise no time and date information is displayed on the home screen.

11.4.3 Car stand-by

Auto Stand-by offsets the Klick & Show Base automatically enters the power saving mode if there is no connection or use of the device within the selected time.



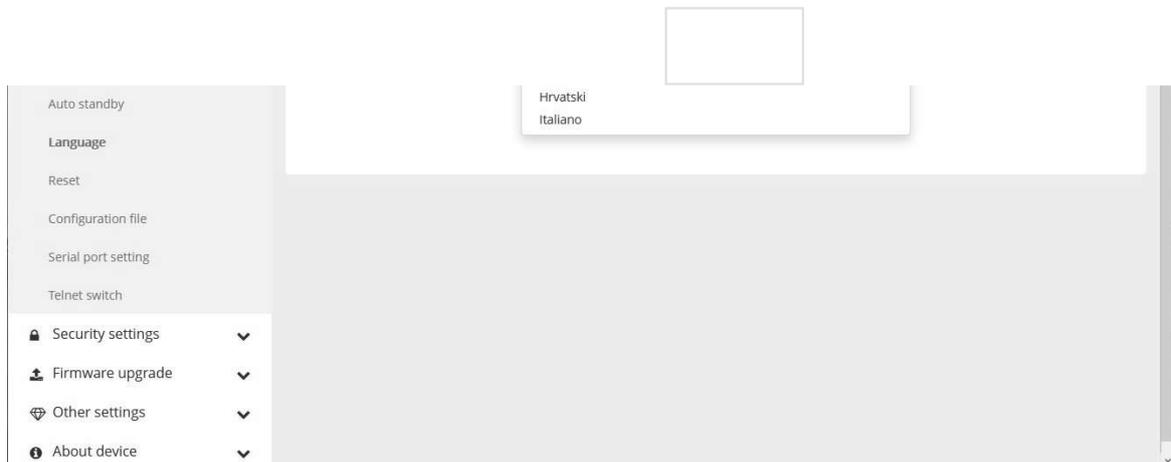
< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_system_standby.jpg >

In stand-by, the LED ring of the base flashes and the HDMI output is switched off. However, the network connection remains active. As soon as a device with the Klick & Show is connected, the power saving mode is terminated.

Pressing the POWER button on the front of the device or entering it on the connected touch screen also ends the energy-saving mode.

11.4.4 Language

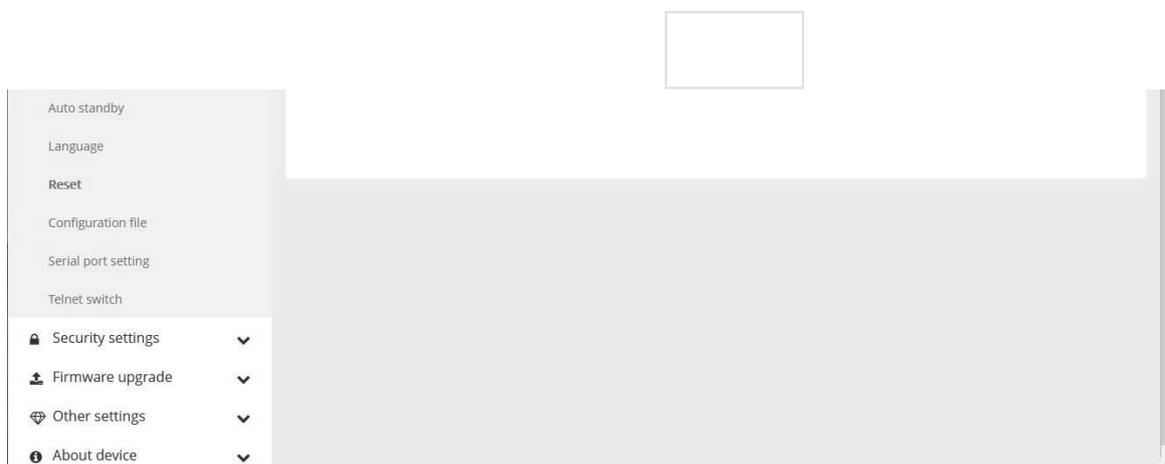
You can change the desired language of the Klick & Show Select home screens and the WebUI (Administration) independently of each other.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_system_language.jpg >

11.4.5 Resetting

The "Confirm Settings" button and the re-confirmation of the security prompt will reset the device to factory settings. Alternatively, you can use the Klick & Show also reset via the [reset button](#) on the back of the device.

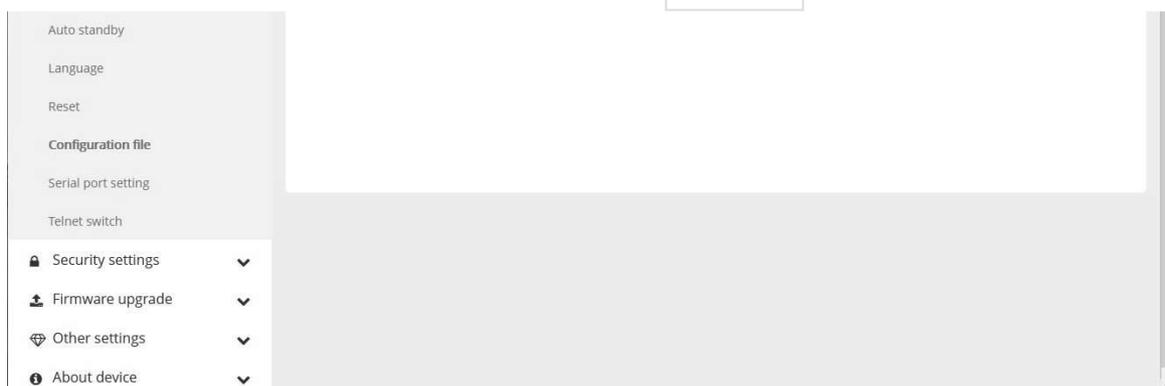


< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_system_reset.jpg >

11.4.6 Save/install configuration

Under the Download Configuration File tab, you can save the current system configurations as a local config .dat.

Under the tab "Upload configuration file" you can then upload it again (e.B. after a reset) or to another Klick & Show so that the configuration effort is minimized.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_system_configuration_save_upload.jpg

11.4.7 Serial interface (RS232)

The RS232 interface can be activated or deactivated in this menu. Via RS232, the Klick & Show Basis e.B be remotely controlled by a media controller. Alternatively, the interface can also be used to control other devices.

Remote control of the Klick & Show Basis via RS232:

To do this, configure the serial port function to "Klick & Show control ". The control commands are identical to the [Telnet commands](#).

You can apply the other settings (baud rate, etc.) or adapt them to the capabilities of the media control.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_system_rs232.jpg >

Remote control of external devices via RS232 by Klick & Show:

To do this, set the serial port function to "Klick & Show and adapt the communication parameters to the technical requirements specified by the device to be controlled.

These can usually be found in the manual as a preliminary remark to the RS232 commands.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_system_rs232_control.jpg >

Commands can be stored for the following functions:

- Turn on
(as soon as the power supply of Klick & Show was manufactured)
- Going to sleep (If Klick & Show goes into stand-by)
- Wake up (If Klick & Show the stand-by ended)

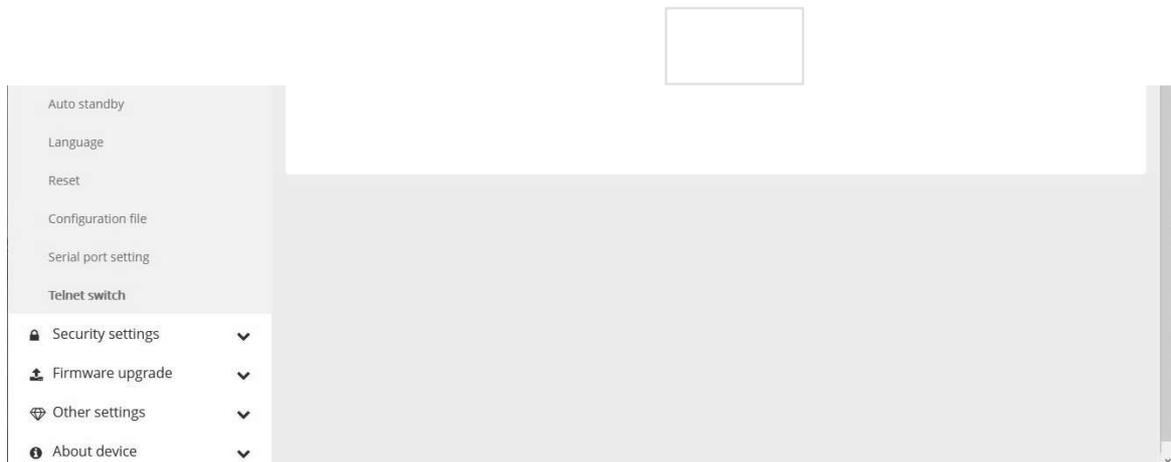
The delay can be entered separately.

With ON/OFF, the stored command can be set active or inactive. The commands must be entered in ASCII.

11.4.8 Taxes with Telnet

Here the control can be activated or deactivated via Telnet.

The control commands can be found [here](#).



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_system_telnet.jpg >

11.4.9 Restarting

Here a restart of the Klick & Show Basis directly initiated or carried out automatically on certain days of the week at a predefined time.



< https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_system_reboot.jpg >

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11.5 Security settings

11.5.1 Security levels

You can use four different security levels for the Klick & Show choose. Security levels 1 through 3 are predefined and cannot be changed. The security level "Custom" allows you to select the individual security features individually according to your needs. The first two security features are enabled at each level and cannot be disabled. In the factory settings, security level 2 is enabled.



https://kindermann-manuals.com/wp-content/uploads/2021/08/WebUI_Security_levels.jpg

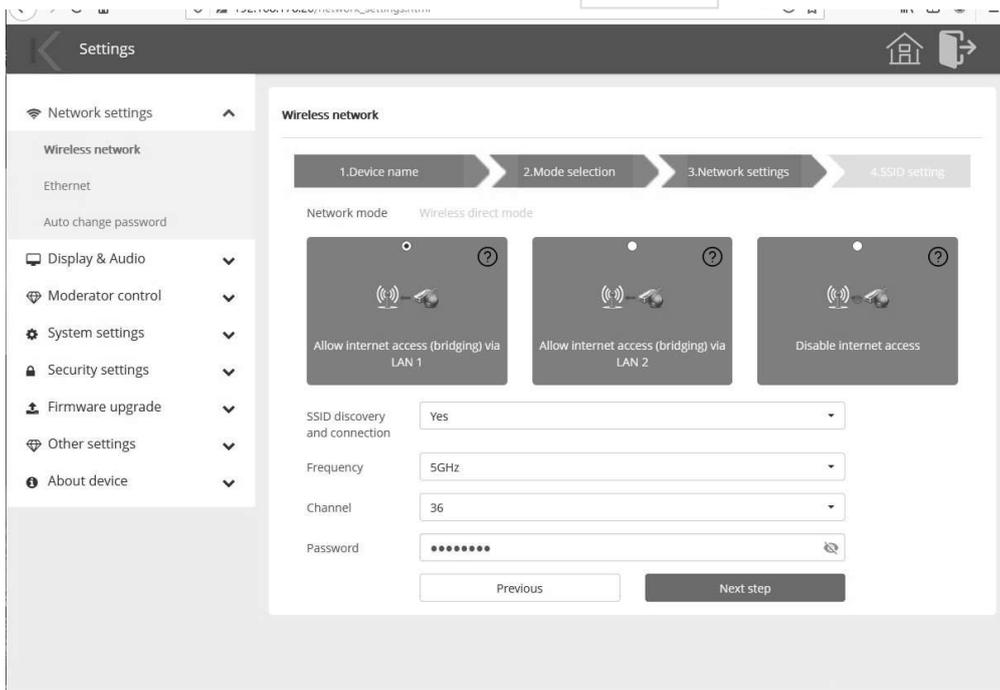
Change code/WLAN password automatically

The code secures the use of Klick & Show against unauthorized use. Depending on the network configuration, this is also the WLAN password (in Access Point Mode) or only serves to protect against interference by outsiders, e.B. accidental connection.

Changing the code regularly prevents a previous user from still being presenting after leaving the room.

The code remains unchanged as long as a device with the Klick & Show is connected. After the last device has disconnected, the set timer expires. Fifteen seconds before expiration, there is a warning message that the code will change shortly. The timer can be changed to different times:

- **Never** (= requires the individual configuration of the security levels)
- **5 / 30 minutes**
- **1 / 2 / 4 / 24 hours**



< https://kindermann-manuals.com/wp-content/uploads/2021/04/WebUI_Wireless_network_step3_wireless_direct.jpg >



tip:

If the password timer is not displayed, at least one device is still connected. Mobile devices can also maintain a Wi-Fi connection in the background and prevent automatic password changes and the STANDBY function!

*If the code changes, it will only affect all manual Wi-Fi connections. The transmitter must: **not** be newly paired with the base device.*

seconds without input the data is automatically deleted)

- Always

Encryption of data: Proprietary

The communication between the Klick & Show The base and the transmitters or software clients are secured with proprietary encryption.

Encrypt video/audio data with AES-256 bit + RSA-1024 bit (screen sharing)

The video and audio data are backed up twice using the encryption methods mentioned above.

11.5.2 Login password

The password protects access to the administration menu.

The default password in the delivery state and after a reset is "**admin**".

Please change the password to a secure one during commissioning.

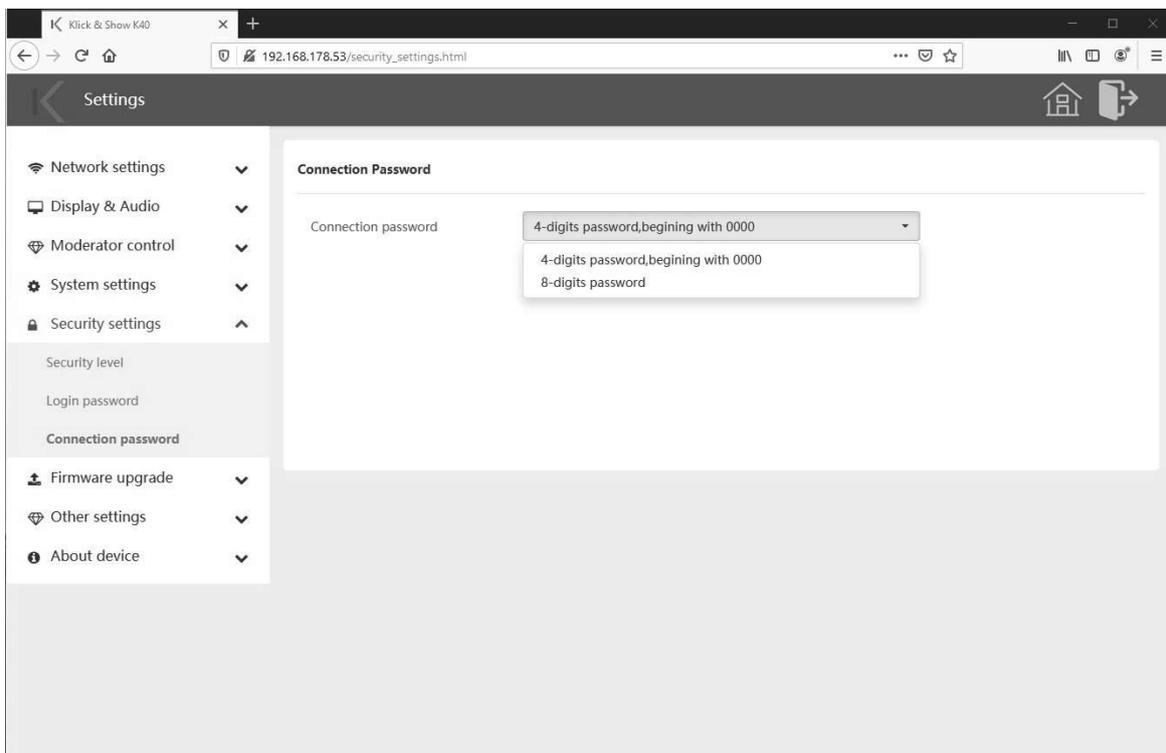
However, you can also disable password prompting for the administrator menu. To do this, tick "Disable password request".



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_security_admin_pwd.jpg >

11.5.3 Connection password

Define whether the code should be 4-digit (with four leading zeros) or 8-digit.



< <https://kindermann-manuals.com/wp->

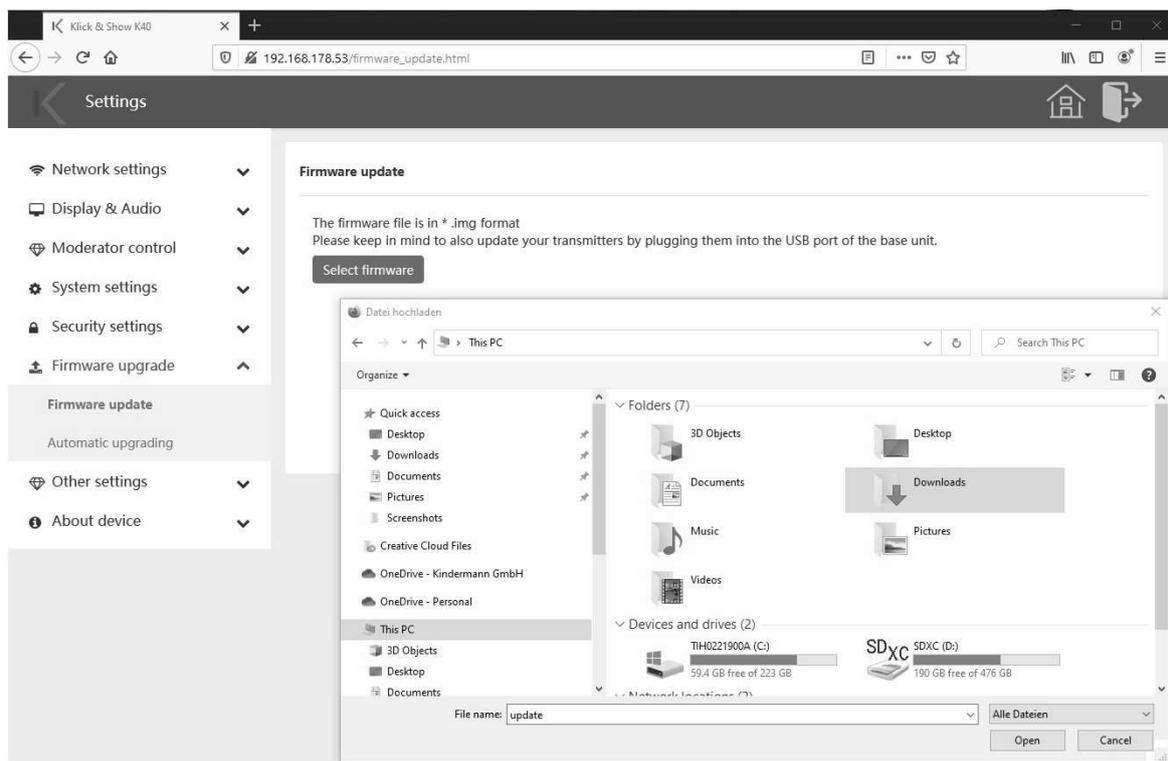
English



11.6.1 Update firmware manually

Download the latest firmware from <http://kfx.www.klickandshow.com> <
<http://kfx.klickandshow.com>> .

Unzip and save the "update.img" file on your computer. Via "Select Firmware" you can search for and select the file on your computer. Start the update process by pressing the "Start upload" button.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_FW_update_select.jpg>



Attention:

During the update, the device must not be switched off or disconnected from power. There is a risk that your device will become unusable.

English



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_FW_update_upload.jpg >

That Klick & Show automatically reboots and displays the update status on the connected display.

After restarting, the update process is complete and Klick & Show displays the home screen again in the usual way.



hint:

Please remember to update the transmitters and the client software after an update.

11.6.2 Automatically Update Firmware (OTA)

Alternatively, you can also have the firmware update carried out automatically via OTA (Over the Air). To do this, the Klick & Show communicate with the update server on the Internet. The base checks daily between 0 and 7 o'clock whether an update is available, which is then loaded and installed independently.

Of course, you can also trigger the search for an update manually.



hint:

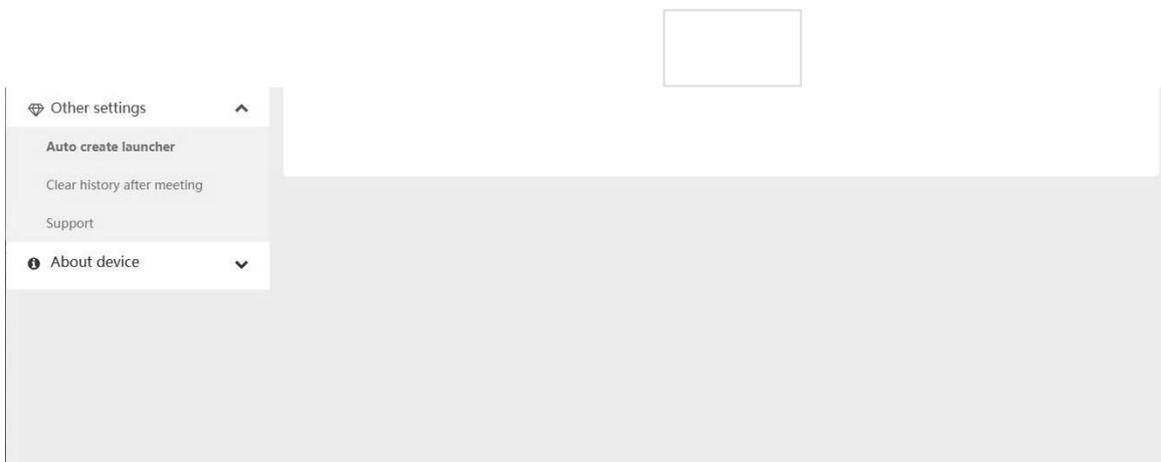
Please remember to update the transmitters and the client software after an update.

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11.7 Other settings

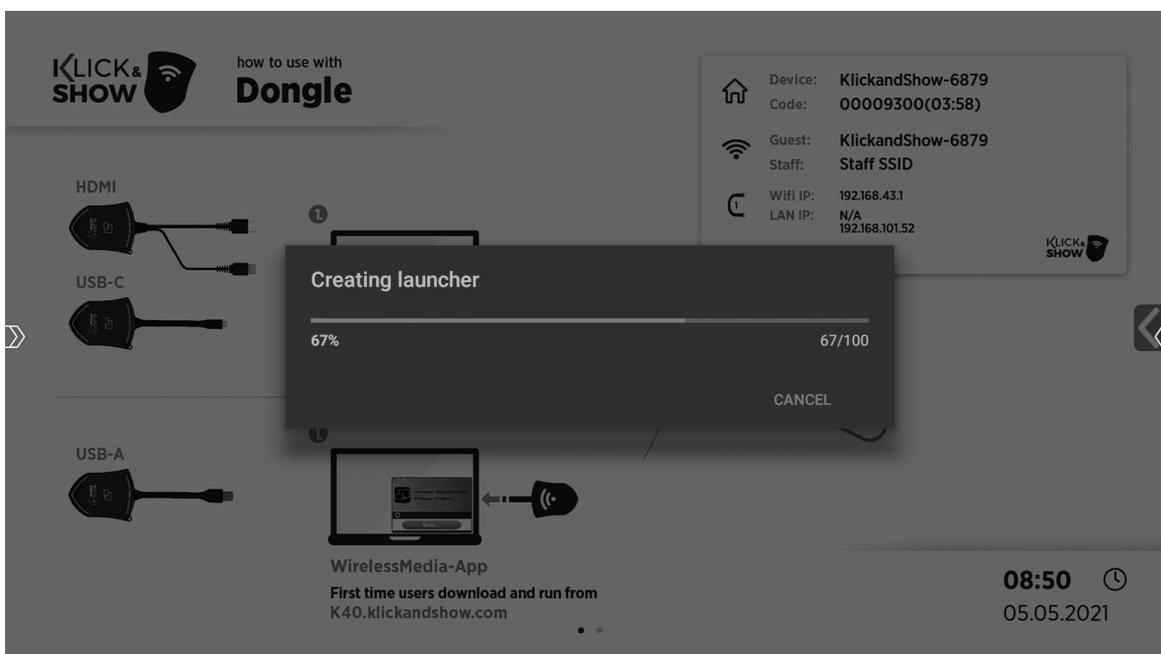
11.7.1 Create the startup program automatically

When this feature is enabled, each USB disk that is in the Klick & Show is plugged in, copies the WirelessMedia clients.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_launcher.jpg >

The following message is then displayed on the display:



< https://kindermann-manuals.com/wp-content/uploads/2021/05/Token_creation-1.png >

At the end you can untrace the USB stick.



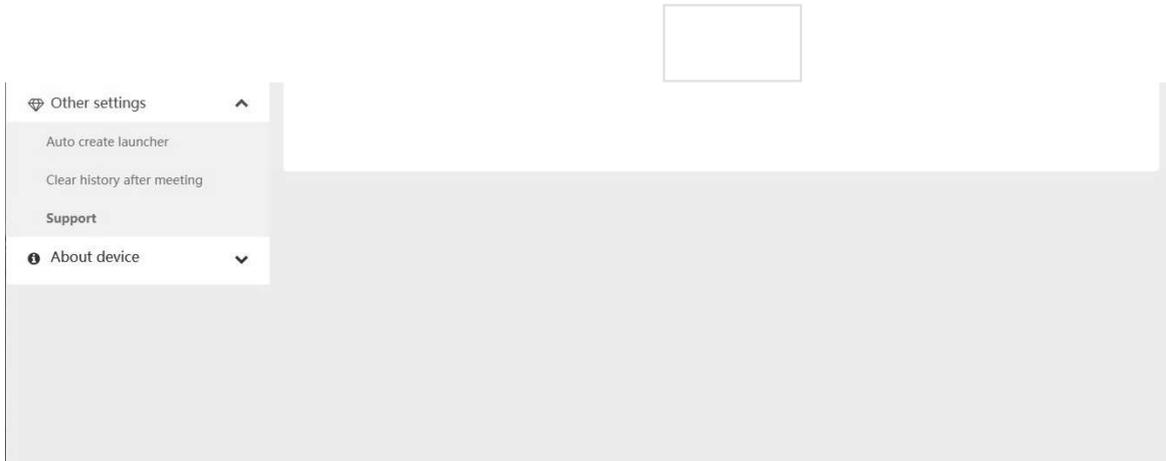
< https://kindermann-manuals.com/wp-content/uploads/2021/05/token_creation_done-1.png >

11.7.2 Support

At this point, the e-mail address and telephone number of your in-house helpdesk or a service provider can be entered.

This information is then displayed on the [home page](#) .

In the factory setting, the support information of Kindermann is entered.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_support.jpg >

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The function of the connected USB camera can be checked via the USB Camera menu.



The USB Audio menu can be used to check the function of the connected USB audio device.



Hint:

If the playback of the video image or the audio signal does not work specifically, please first check whether the USB connection is correct. The camera and audio device must be connected to the USB 3.0 ports on the back of the device.

*Please use a USB cable that is as short and high-quality as possible for the test. Please continue to check if your hardware **is compatible with** Klick&Show K-FX. If necessary, please contact our [support](#) <*

<https://www.klickandshow.com/support/>> for further support during commissioning.

11.9 Screen Link

The exclusive Screen Link function allows 2 Klick & Show Base devices, so that the now duplicate HDMI outputs and processors form a more powerful base system with dual monitor output and extended functionality.

To use the Screen Link, the two base devices must be connected to exchange video/audio and control data via LAN port 1 via a (crossed) Ethernet cable and the desired settings must be made in the Screen Link menu after activating the Screen Link mode. One of the base devices is defined as "master" and the other base device as "slave". The sla

English



With the Screen Link function, a double monitor output for up to 5 participant content (4+1) takes place. The mode setting can be used to predefine whether either:

- The first source always remains in full screen display (Master 1 / Slave 4)
or
- The last source always remains in full screen display (Master 4 / Slave 1)

The following table gives an overview of how the image outputs are carried out depending on the mode setting on master or slave monitor, with an increasing number of displayed participant content:

Master 1 / Slave 4	First Source always remains in full-screen display	2 sources: both content in full screen display 3-5 sources: Slave shows sources 2-5 as PiP
Master 4 / Slave 1	1 Source: same content on master and slave 2 sources: both content in full screen display 3-5 sources: Master shows sources 2-5 as PiP	Last Source always remains in full-screen display

To set up a screen link:

1. Decide whether you want a particular source to have special meaning in your scenario (for example, a presenter's image content).
2. In this case, set the base unit assigned to the preferred screen (left/right) as "Master" and select the mode setting "Master 1 / Slave 4", so that the first mirrored source always appears in full screen mode on the master display, while subsequent content is displayed on the slave display.
3. In the other case, if the content in your scenario has more of the same relevance, then set the base device assigned to the screen (left/right) that is to show the last mirrored content in full screen size as your "slave" and select the mode setting "Master 4 / Slave 1".

Tip:

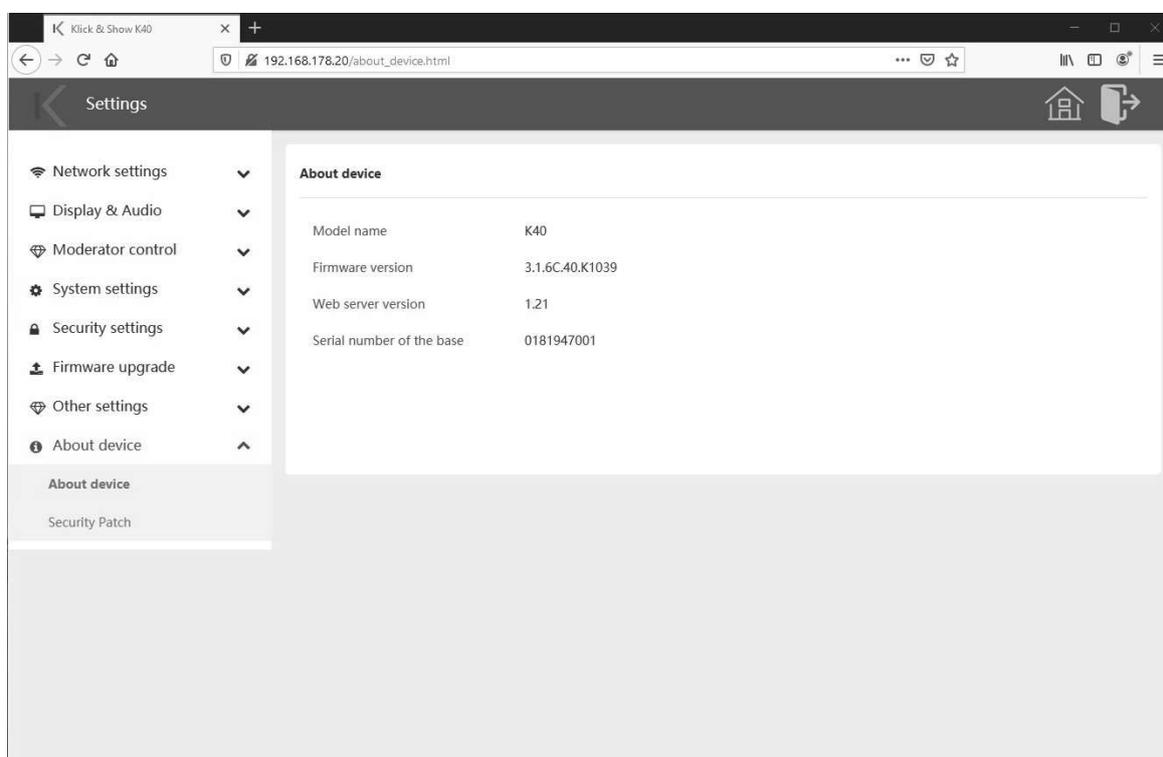
The Screen Link function is particularly advantageous for applications that benefit from the output of various image contents, for example:

- Presentations that often compare different content
- Web conferencing in companies, with visualization of remote participants and local content



11.10.1 About the Device

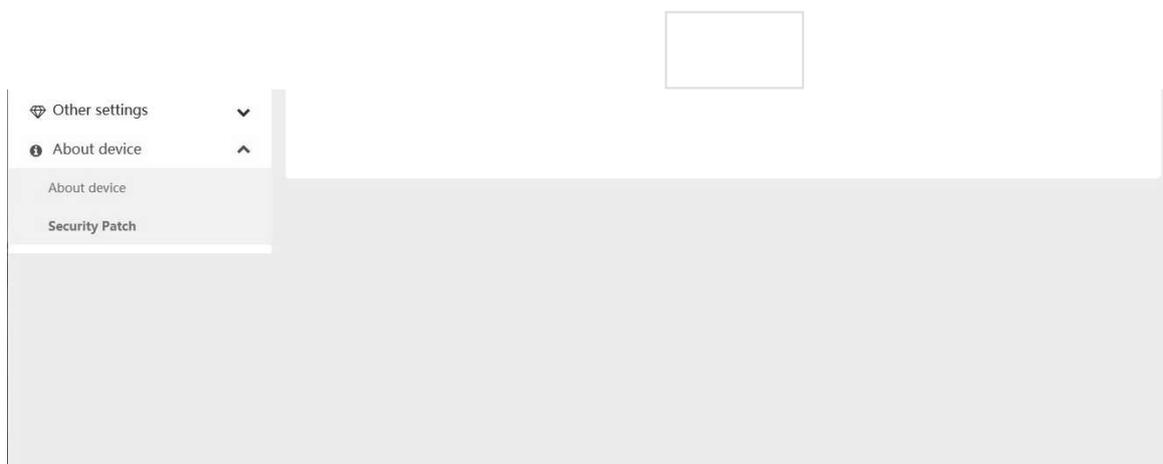
Here you will find the information on the model number, firmware version and the serial number of the base.



https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_about.jpg

11.10.2 Security Patch

Here you will find information about the status of the Android security patches. These will be updated together with the firmware update if necessary.



< https://kindermann-manuals.com/wp-content/uploads/2021/05/WebUI_security_patches.jpg >

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12. Port shares for use in THE LAN/WLAN

The following ports must be used for the correct functioning of Klick & Show be shared on the network:

windows /MAC WMT:Port is assigned by system	port is 20000	TCP		Command	command between WMT/PC software and WMS
PC:Port is assigned by windows /MAC WMT:Port is assigned by system	WMS, port is 20002	TCP		video	Transfer video from WMT/PC software to WMS
PC:Port is assigned by windows /MAC WMT:Port is assigned by system	WMS, port is 20003	TCP		audio	Transfer audio from WMT/PC software to WMS
PC:Port is assigned by	WMS, port is	UDP		Preview window Fast cursor	Transfer preview video from WMT/PC to WMS Transfer

system					
PC:Port is assigned by windows /MAC WMT:Port is assigned by system	WMS, port is 20006	TCP		Command	Transfer control command between WMT/PC software and WMS
	WMS, port is 20007				
PC:Port is assigned by windows /MAC WMT:Port is assigned by system	WMS, port is 8887	Multicast		Discovery	Used by WMT/ PC software to send multicast message to network to search WMS. The group ip is "239.1.1.1"
PC:Port is assigned	WMS, port	Broadcast		Discovery	Used by WMT/ PC software to send broadcast

by system					
PC:Port is assigned by windows /MAC WMT:Port is assigned by system	WMS, port is 6667	UDP		Discovery	After search, authentication message is transferred through this port
Manage Tool	WMS, port is 2006	TCP		Manage Tool	transfer cmd/data between wmb and ManageTool
WMB:Port is 80/8080	remote OTA server Web port is 8080/80	HTTP		OTA	communication between WMS and remote OTA server. Such as query firmware info, download new firmware OTA server: http://www.fw-service.com



Any client	WMS, port is 5656	TCP		Telnet Command	the same as telnet
Apple device	WMS, port is 5353	Multicast		Airplay	For apple device to search WMS
From apple device	WMS, port is 51010	TCP		Airplay	Apple device push URL to WMS
From apple device	WMS, port is 51020	TCP		Airplay	Airply protocol event port
From apple device	WMS, port is 7100/7011/	TCP		Airplay	

device	port				device to transfer audio
From apple device/ Mobile app(ios/ Android)	WMS, port is 51030	TCP		Airplay/ Mobile APP	Transfer video data, for screen mirror
From Mobile app(ios/ Android)	WMS, port is 51040	TCP		Mobile app (ios/ Android)	RTSP control protocol, transfer control command
From Mobile app(ios/ Android)	WMS, port is 52020	TCP		Mobile app (ios/ Android)	Remote control
From Mobile app(ios/ Android)	WMS, port is 52030	TCP		Mobile app (ios/ Android)	When sharing, sync status between Mobile app and WMS
From Mobile app(ios/ Android)	WMS, port is	TCP		Mobile app (ios/ Android)	Mobile app transfer photo, audio, video to WMS

Android)	486 89			roid)	
browser	WM S, port is 800 0	HTTP		web page	download app/user manual from web page
usb over wifi	200 08	UDP		transfer audio/vi deo data	
usb over wifi	200 09	TCP		transfer audio/vi deo data	
miracast	155 50/ 155 60	RTP			
miracast	155 51/ 155 61	RTCP			
chrome cast	166 60- 166 63	UDP		transfer audio/vi deo data	

cast	y				
chrome cast	190 0	UDP multi cast		to discover y chrome device	

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13. Telnet/RS232 commands

That Klick & Show can be controlled by the commands below via RS232 or Telnet.
The ports :23 and :5656 are used for control via Telnet.



hint:

The possibility of control via Telnet depends on the set security level.

Command table:

			details	
Home		OK		Home
Home	?	#home on OK	force go to home screen	Home?
wifi	on	OK	turn on wifi hotspot	
wifi	Off	OK	turn off wifi hotspot	
wifi	Channel	OK	set wifi hotspot channel	wifi channel 40
wifi	ssid	OK	set wifi hotspot ssid	wifi ssid room506
wifi	pass	OK	set wifi hotspot password	wifi ssid romt34 pass 12345678
wifi	stratagem	#wifi 08:d4:0c:d1:1e:92 192.168.43.180 #wifi 08:ea:40:5d:24:66 192.168.43.152 OK	list all clients which are connected to wifi hotspot param1: mac param2: ip	wifi list
wifi	amount	#wifi 2 OK	return how many wifi device which are connected to wifi hotspot	wifi amount
wifi	?	#wifi ap-on 10 ty56rytt 234324rtyuu OK	query wifi hotspot settings param param1: ap-on means wifi	wifi ?



Mute	on	OK	mute volume	mute on
Mute	Off	OK	unmute volume	mute off
Mute	?	#mute on OK	query mute status	Mute?
Standby	set	OK	set auto standby timeout time, as menu general setting->auto standby	standby set off standby set 1min standby set 5min standby set 10min standby set 15min standby set 30min
Standby	Wakeup	OK	force system wake up from standby	standby wakeup
Standby	?	,	param1: auto standby timeout setting param2: standby status, wakeup means system now is working, sleep means system is dreaming	Standby?
button	listconnect ed	#button 1513849033 c0a82b98,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,en	list connected button info	
button	Lc	#button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5	the same as listconnected	



button	ldc	#button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,0,LYCAN	the same as listdisconnected	
button	listsharing	#button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,LYCAN	list button info which is sharing his screen	
button	Ls	#button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,LYCAN	the same as listsharing	
button	listall	#button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,LYCAN	list all buttons connected/disconnecte d	
button	La	#button 1513849033 c0a82b98,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,en #button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,LYCAN	the same as listall	
button	?	#button 1513849033 c0a82b85,ec3dfd3a9c2c,V2.0.5 C.A1009,1,1,0,1,LYCAN	the same as listall	
button	Share	c0a82b85	request a button to start share, the param can be ip or name	button share LYCN button share c0a82b85
button	stop	c0a82b85	request a button to stop share, the param can be ip or name	button stop LYCN button stop



pass	?	#pass : 12345678	query password	pass?
Volume	volume xxx	volume 30 OK	set audio volume level	volume 30
Volume	Volume?	Volume? #volume unmute 90 OK	read audio volume level	
login	login xxx	login 12345678 OK	login to telnet system	
refresh	refresh pass	refresh pass OK	refresh password	
Security	security x	security 2 OK	set security level	
Security	Security?	Security? #security 2 OK	read security level	
pair	pair ?	pair ? #pair 1–ec3dfd3a9cf0 OK	read paired dongle info	
pair	pair remove xxx	pair remove ec3dfd3a9cf0 OK	remove paired dongle	
forshare	forshare 3	forshare 3 OK	force share xxx, xxx can be ip, name, or 1,2,3,4 make some one full screen share	



< <https://kindermann-manuals.com/wp-content/uploads/2022/04/Technische-Daten.jpg> >

English



In the data sheet for the KLICK & SHOW Kits you will find all relevant technical data.

https://shop.kindermann.de/erp/KCO/avs/7/7488/7488000340/01_Anleitungen+Doku/7488000340-342-343_KlickandShow-K-FX_D.pdf <

https://shop.kindermann.de/erp/KCO/avs/7/7488/7488000340/01_Anleitungen+Doku/7488000340-342-343_KlickandShow-K-FX_D.pdf >

https://shop.kindermann.de/erp/KCO/avs/7/7488/7488000340/01_Anleitungen+Doku/7488000340-342-343_KlickandShow-K-FX_GB.pdf <

https://shop.kindermann.de/erp/KCO/avs/7/7488/7488000340/01_Anleitungen+Doku/7488000340-342-343_KlickandShow-K-FX_GB.pdf >

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This product also includes software components that have been released under an open source license. A list of third-party open source components used can be found [here < https://www.klickandshow.com/license-matters/>](https://www.klickandshow.com/license-matters/).

English

EG – Konformitätserklärung
EG – Declaration of conformity

Hersteller/Bevollmächtigter:
Manufacturer/Authorized representative: Kindermann GmbH
Mainparkring 3
D-97246 Eibelstadt

Erklärt hiermit, dass das Produkt:
Hereby declares that the product: Klick & Show K-FX
Klick & Show K-FX HDMI Kit
Klick & Show K-FX USB C Kit

mit der Modellnummer/den Modellnummern:
with the model number(s): 7488000340/42/43

in seiner Konzeption und Bauart in der von uns in Verkehr gebrachten Ausführung den grundlegenden Sicherheits- und Gesundheitsanforderungen der betreffenden, u. a. Richtlinien entspricht.
in its design and type of construction in the version marketed by us complies with the basic safety and health requirements of the relevant directives, among others

Bei einer mit uns nicht abgestimmten Änderung des Produktes verliert diese Erklärung ihre Gültigkeit.
In the event of a modification of the product not agreed with us, this declaration loses its validity.

Das Produkt ist in Übereinstimmung mit folgenden Richtlinien/Bestimmungen:
The product is in compliance with the following directives/regulations:

NV-Richtlinie 2014/35/EU, EMV-Richtlinie 2014/30/EU und RoHS 2011/65/EU, Funk 2014/53/EU und zusätzliche Normen
LVD 2014/35/EU, EMC-Directive 2014/30/EU and RoHS 2011/65/EU, RED 2014/53/EU and additional standards

Angewandte (vornehmlich harmonisierte) Normen und zusätzliche Normen sind insbesondere:
Applied (mainly harmonized) standards and additional standards are in particular:

Sicherheit/Safety: EN 62368-1: 2014+A11: 2017
Health/Gesundheit: EN IEC 62311: 2020
EMV/EMC: ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.2.4 (2020-09)
ETSI EN 301 489-3 V2.1.1 (2019-03)
EN 55032: 2015+A11: 2020; EN 55035: 2017+A11: 2020
EN IEC 61000-3-2: 2019; EN 61000-3-3: 2013+A1: 2019
Funk/RED: ETSI EN 300 328 V2.2.2 (2019-07)
ETSI EN 301 893 V2.1.1 (2017-05)
ETSI EN 300 440 V2.2.1 (2018-07)
RoHS 2.0: EN 50581:2012

Eibelstadt, 24.11.2021


CE Beauftragter Arnel Ugljesa



<https://kindermann-manuals.com/wp-content/uploads/2020/09/screen-eu-konformitaetserklaerung.jpg>

2.4 GHz band: channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11;

5 GHz band: Channels: 36, 40, 44, 48;

Bandwidth: 20MHz

Transmission power: max. 20 dBm (100mW), dynamically controlled

15.3 Diagnostic data

During the use of Klick & Show diagnostic information is transmitted to Kindermann. Kindermann uses the diagnostic data to: Klick & Show Keep safe and up-to-date, troubleshoot issues, and make product improvements.

The diagnostic data collected is limited to a minimum of necessary data and includes information about your device, its settings and functions, and its proper functioning. No personal data is collected.

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<p>permanently green, the "WirelessMedia" software does not start and no connection is established.</p>	<p>Windows or MacOS has not yet been run on the computer, or no longer exists.</p>	<p><u>Chapter 6.4 describes</u> how to load the software.</p>
	<p>You have decided to use WirelessMedia-Pro for Windows.</p>	<p>This program must be started manually before each use.</p>
	<p>Due to administrative restrictions on your computer, entries cannot be made in the Startup menu.</p>	<p>Please contact your administrator to remove these restrictions. Alternatively, you can run the "WirelessMedia-Pro for Windows" client without installation. However, the program must be used before any use of Klick & Show can be started manually.</p>
	<p>Windows: The execution of .exe files is blocked by the administrator.</p> <p>An active antivirus program may block the</p>	<p>Please contact your administrator to remove these restrictions or use an HDMI or USB-C transmitter. These behave like an external monitor and therefore do not require any software on the computer.</p> <p>We regularly check the WirelessMedia clients for viruses. Configure your antivirus program to allow the execution of the program.</p>

	The use of USB ports is blocked due to a company policy.	administrator to remove these restrictions or use an HDMI or USB-C transmitter. These behave like an external monitor and therefore do not require any software on the computer.
	The transmitter is defective.	Test another transmitter to confirm the conjecture. Please contact support.
When plugging the USB-A transmitter into the computer, the "WirelessMedia Client" starts, but the message appears: "Connection failed" .	The network settings of the Click & Show have been changed. The transmitter does not yet know the new parameters.	Pair the transmitter again , see chapter 8.1 .
	The USB port did not recognize the transmitter correctly.	Reconnect the transmitter or use a different USB port on the computer. It may help to restart your computer.
Error message: "The version of the WirelessMedia Client does not match the firmware of the Click & Shows.	A newer version of the WirelessMedia Client is available or the firmware of the Click & Shows has not been updated yet.	You can ignore this message. The basic function is still given, but newer features may not be usable. Download the new software and run it or ask the administrator to update the firmware.

<p>The Wi-Fi connection between the transmitter or computer and the Klick & Show is not stable and breaks off again and again.</p>	<p>The WLAN connection is disturbed, e.B by other devices that use the same channel.</p>	<p>Use a WLAN scanner app (e.B. Wifi Analyser) to find a suitable WLAN channel and change the WLAN configuration of Klick & Show manual. Repeat the process regularly if Wi-Fi networks in the area are frequently changed.</p>
	<p>The signal strength is too low. Walls made of plasterboard or reinforced concrete can dampen the signal and cause reflections that interfere with the WLAN signal.</p>	<p>Reduce the distance between the computer and the access point or place Klick & Show or the access point in a more suitable position in the room. Change the antenna orientation. If possible, remove obstacles in the line of sight between the two devices. Avoid it Klick & Show in (metal) cabinets, suspended ceilings, under tables or in neighboring rooms.</p>
<p>Poor video quality (image sharpness, image and sound dropouts, video stream stutters,...) when using the WirelessMedia client.</p>	<p>The video quality also depends on the computing power and processor utilization by other, running software applications. A laptop can be</p>	<p>Reduce CPU usage by other applications.Reduce playback resolution on the computer. Exit the power saving mode. Use an HDMI or USB-C transmitter, these work regardless of the performance of the computer.</p>

A video does not appear on the main screen.	The content is HDCP protected.	Klick & Show does not support HDCP encoded source signals.
The transmission stops and the transmitter's LED flashes.	The WLAN connection was interrupted.	Klick & Show tries to reconnect automatically. If this does not work, the transmitter's LED will flash green. Unplg and reconnect the transmitter. If the connection cannot be re-established, check the WLAN environment.
Nothing is displayed on the main screen or the image quality of the home screen is poor.	The display is turned off or an incorrect input has been selected.	Turn it on or select the correct input.
	The HDMI cable is not plugged in correctly, damaged or the quality of the cable is too poor.	Establish a working connection between the HDMI output and the display.
	The display detects the resolution of the Klick & Show cannot, or cannot represent them.	Change the resolution in the "Display & Audio" menu. It is best to set them to auto or manually to the native resolution of the display, which you can see in the data sheet.

	the power supply is missing.	stand-by.
The touch function of the display does not work in conjunction with the Klick & Show.	The touch function requires a separate USB cable between the display and Klick & Show.	Connect the touch display via USB cable to the Klick & Show.
No LAN connection to the base.	The network cable is not plugged in. Klick & Show has not received an IP address.	Plug in the network cable and contact your network administrator to verify the correct network integration.
You don't hear any sound on the display.	There are no speakers or the volume control has been adjusted to zero.	Connect speakers or increase the volume.
	The volume level in the Klick & Show was limited.	Customize the audio output in the menu of Klick & Show at.
	The volume level is set too low in the options of the "WirelessMedia Client".	Adjust the volume in the "WirelessMedia" starter program.
	The audio output on the computer has been disabled. (Mute)	Enable audio output.

<p>You don't hear any video sound with the MacBook.</p>	<p>The "Soundflower" app integrated in the WirelessMedia Client is not installed.</p>	<p>You need the "Admin Password" for MacOS: open system settings\Security Run/install the soundflower "Matt Ingels" ⇒ "allow" WirelessMedia.app driver again.</p>
<p>When you insert the USB-A transmitter into a MacBook, you will be prompted for a password.</p>	<p>The "Soundflower" app in the WirelessMedia Client requires a local installation.</p>	<p>You need the "Admin Password" for MacOS: open system settings\Security Run/install the soundflower "Matt Ingels" ⇒ "allow" WirelessMedia.app driver again.</p>
<p>You cannot use the firmware via USB flash drive on the Klick & Show update.</p>	<p>The USB flash drive is formatted with the NTFS file system.</p>	<p>Use a USB disk with FAT32 formatting for the update.</p>
<p>AirPlay does not work.</p>	<p>The use of AirPlay has been updated in the security settings of Klick & Show deactivated.</p> <p>Klick & Show operates in infrastructure mode. Certain <u>network</u> ports</p>	<p>Contact your administrator to enable this feature or to perform the necessary network configurations.</p>



<p>The image quality when playing video via AirPlay is poor.</p> <p>"WirelessMedia2" for Android does not transmit sound.</p>	<p>Streaming: Videos (Internet, youtube; the image is not displayed on the iOS device. ⇒ image is jerking</p> <p>Android does not allow apps to access the audio signal.</p>	<p>Reduce "quality" in the video, e.B. from "automatic" to 720p.</p> <p>Most Android devices support Miracast, which also allows the transfer of audio.</p>
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<p>Integration into a company network</p>		
<p>Mobile devices do not find the base device.</p>	<p>Certain network ports must be shared for data transfer.</p>	
	<p>Klick & Show and mobile devices are not on the same subnet.</p>	<p>Contact the administrator to make the necessary network configurations.</p>
<p>Poor transmission quality</p>	<p>Poor Wi-Fi connection</p>	<p>Contact the Administrator to improve the WLAN supply or to optimize the network configuration.</p>
	<p>The available bandwidth is occupied by other network participants. Klick & Show requires a</p>	<p style="text-align: right;">English</p>


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Kindermann GmbH
Mainparkring 3
D-97246 Eibelstadt, Germany

manager:
Paulinus Hohmann, Timo Meissner

privacy

We store data of the customer necessary for our business processes, a transfer to third parties does not take place.



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English