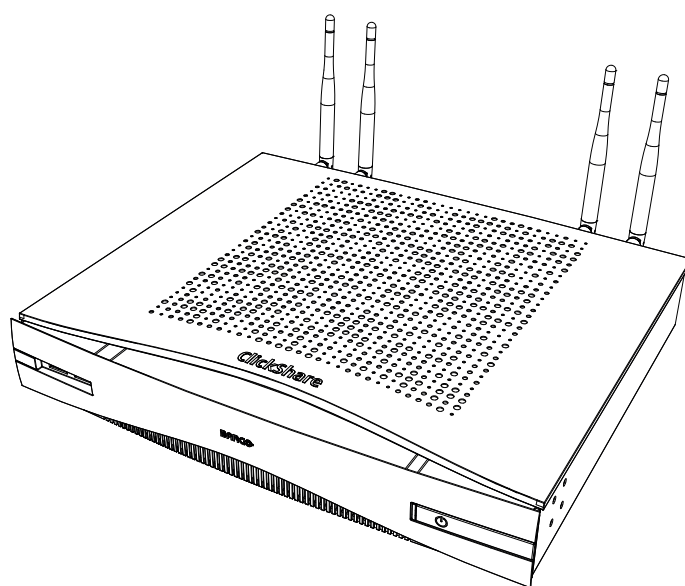


# ClickShare CSE-800



## Installation manual

## **Product revision**

Software Revision: 1.9.x

**Registered office: Barco NV**  
President Kennedypark 35, 8500 Kortrijk, Belgium  
[www.barco.com/en/support](http://www.barco.com/en/support)  
[www.barco.com](http://www.barco.com)

**Barco NV**  
Beneluxpark 21, 8500 Kortrijk, Belgium  
[www.barco.com/en/support](http://www.barco.com/en/support)  
[www.barco.com](http://www.barco.com)

## Barco ClickShare Product Specific End User License Agreement<sup>1</sup>

THIS PRODUCT SPECIFIC USER LICENSE AGREEMENT (EULA) TOGETHER WITH THE BARCO GENERAL EULA ATTACHED HERETO SET OUT THE TERMS OF USE OF THE SOFTWARE.

PLEASE READ THIS DOCUMENT CAREFULLY BEFORE OPENING OR DOWNLOADING AND USING THE SOFTWARE.

DO NOT ACCEPT THE LICENSE, AND DO NOT INSTALL, DOWNLOAD, ACCESS, OR OTHERWISE COPY OR USE ALL OR ANY PORTION OF THE SOFTWARE UNLESS YOU CAN AGREE WITH ITS TERMS AS SET OUT IN THIS LICENSE AGREEMENT.

### 1. Entitlement

Barco ClickShare (the "Software") offered as a wireless presentation solution that includes the respective software components as further detailed in the applicable Documentation.

The Software can be used upon purchase from, and subject to payment of the relating purchase price to, a Barco authorized distributor or reseller of the ClickShare base unit and button or download of the authorized ClickShare applications (each a "Barco ClickShare Product").

- **Term**

The Software can be used under the terms of this EULA from the date of first use of the Barco ClickShare Product, for as long as you operate such Barco ClickShare Product.

- **Deployment and Use**

The Software shall be used solely in association with a Barco ClickShare Product in accordance with the Documentation issued by Barco for such Product.

### 2. Support

The Software is subject to the warranty conditions outlined in the Barco warranty rider. Maintenance, including the provision of upgrades and updates to the Software, and helpdesk support are available at your option on the terms of Barco's then current warranty rider.

Higher maintenance and support levels can be obtained at the moment of product sale or during the Barco ClickShare Product and/or Software warranty term.

Higher maintenance and support levels may be included in the initial transaction if ordered and paid for additionally. It is strongly suggested to maintain the maintenance and support agreement without interruption. Barco reserves the right not to restart maintenance following an interruption by the customer.

### 3. Terms of Use

The Software can be used as set out in the Barco EULA attached hereto.

The provisions of this Product Specific EULA override the Barco generic EULA in case of conflicts or inconsistencies.

In case of (inadvertent or other) non-compliance (e.g. where the actual use overshoots the use authorized hereunder), Barco shall have the option to suspend access to the Software until the non-compliance is remedied, failing of which Barco may terminate the License Agreement as set out herein.

### 4. Privacy

You are controller for personal data which are being processed via the Software. Therefore, you remain solely responsible for complying with all applicable data protection laws and for implementing and maintaining privacy protection and security measures (especially for components that you provide or control). Barco disclaims any liability in this regard.

Barco created a specific privacy policy for the ClickShare software application for mobile devices, which describes the processing of personal data via this application (

<http://www.barco.com/en/about-barco/legal/privacy-policy/clickshare-app>).

### 5. Other Terms

- **Open Source components**

The Software contains software components released under an Open Source license.

A list of the third party components used is available in the Software's README files, through the "My Barco" section of the Barco website or through other (online) means. The applicable license terms,

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1: In the event of any differences or inconsistencies between translations of the EULA and the English text of the EULA, the English text will prevail.

copyright notices and, as relevant, source code access conditions apply as set out in the Barco EULA attached hereto.

- **Retention of data**

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"Affiliate" means any corporation or other entity directly or indirectly, controlling, controlled by or under common control with such corporation or entity. For the purpose of the above, "control" shall mean (i) the ownership or control, directly or indirectly, of fifty percent (50%) or more of the equity capital or the shares or voting rights in the corporation or other entity in question or (ii) the control of the composition of the board of directors of the corporation or other entity in question.

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"Documentation" means all technical, reference and installation manuals, user guides, published performance specifications and other written documentation provided by Barco generally to its licensees with respect to the Software, along with any modifications and updates thereto;

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"Product Specific EULA" means the supplemental software terms applicable

"Software" means the computer software, released in object code only, which is being licensed hereunder, as described in the applicable purchase order and related Product Specific EULA.

"Term" means the period set out in article 9.1 hereof, as well as any agreed renewal period.

"you" means the entity on behalf of which these terms are accepted, and any of its representatives having access to the Software.

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**YOU HEREBY ACKNOWLEDGE TO HAVE READ, UNDERSTOOD AND ACCEPTED TO BE BOUND BY ALL THE TERMS AND CONDITIONS OF THIS LICENCE AGREEMENT AS INDICATED ABOVE**

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Via the Software, Barco may gather technical information about (i) the functioning and the functionality of the products which are connected through the Software, and/or (ii) as provided by you or generated by your use of the Software ("Functional Information"). Barco may make use of such Functional Information for purposes of analytics, for developing and improving products and services, offering products and services to your organization and/or allowing third parties to access such Functional Information; based on the legitimate interest of Barco of evaluating the market, assessing and improving its products and conducting research and development. All knowhow, inventions and works derived by Barco from the Functional Information will be exclusively owned by Barco.

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

PACKAGE	VERSION	SOURCE SITE
alsa-lib	1.1.3	<a href="ftp://ftp.alsa-project.org/pub/lib">ftp://ftp.alsa-project.org/pub/lib</a>
alsa-utils	1.1.3	<a href="ftp://ftp.alsa-project.org/pub/utils">ftp://ftp.alsa-project.org/pub/utils</a>
libsamplerate	0.1.9	<a href="http://www.mega-nerd.com/SRC">http://www.mega-nerd.com/SRC</a>
libsndfile	1.0.28	<a href="http://www.mega-nerd.com/libsndfile/files">http://www.mega-nerd.com/libsndfile/files</a>
ncurses	5.9	<a href="http://ftpmirror.gnu.org/ncurses">http://ftpmirror.gnu.org/ncurses</a>
avahi	0.7	<a href="https://github.com/lathiat/avahi/releases/download/v0.7">https://github.com/lathiat/avahi/releases/download/v0.7</a>
dbus	1.10.16	<a href="http://dbus.freedesktop.org/releases/dbus">http://dbus.freedesktop.org/releases/dbus</a>
expat	2.2.2	<a href="http://downloads.sourceforge.net/project/expat/expat/2.2.2">http://downloads.sourceforge.net/project/expat/expat/2.2.2</a>
libselinux	2.6	<a href="https://raw.githubusercontent.com/SELinuxProject/selinux/files/releases/20161014">https://raw.githubusercontent.com/SELinuxProject/selinux/files/releases/20161014</a>
libsepol	2.6	<a href="https://raw.githubusercontent.com/SELinuxProject/selinux/files/releases/20161014">https://raw.githubusercontent.com/SELinuxProject/selinux/files/releases/20161014</a>
pcre	8.41	<a href="https://ftp.pcre.org/pub/pcre">https://ftp.pcre.org/pub/pcre</a>
xlib_libSM	1.2.2	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>

PACKAGE	VERSION	SOURCE SITE
xlib_libICE	1.0.9	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_xtrans	1.3.5	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_xproto	7.0.31	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libX11	1.6.4	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
libxcb	1.12	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
libpthread-stubs	0.3	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
xcb-proto	1.12	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
xlib_libXau	1.0.8	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xutil_util-macros	1.19.1	<a href="http://xorg.freedesktop.org/releases/individual/util">http://xorg.freedesktop.org/releases/individual/util</a>
xlib_libXdmcpc	1.1.2	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_inputproto	2.3.2	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_kbproto	1.0.7	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_xextproto	7.3.0	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_xf86bigfontproto	1.2.0	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
libdaemon	0.14	<a href="http://0pointer.de/lennart/projects/libdaemon">http://0pointer.de/lennart/projects/libdaemon</a>
glib2	2.50.2	<a href="http://ftp.gnome.org/pub/gnome/sources/glib/2.50">http://ftp.gnome.org/pub/gnome/sources/glib/2.50</a>
elfutils	0.169	<a href="https://sourceware.org/elfutils/ftp/0.169">https://sourceware.org/elfutils/ftp/0.169</a>
bzip2	1.0.6	<a href="http://www.bzip.org/1.0.6">http://www.bzip.org/1.0.6</a>
zlib	1.2.11	<a href="http://www.zlib.net">http://www.zlib.net</a>
libffi	3.2.1	<a href="ftp://sourceware.org/pub/libffi">ftp://sourceware.org/pub/libffi</a>
util-linux	2.29.2	<a href="https://cdn.kernel.org/pub/linux/utils/util-linux/v2.29">https://cdn.kernel.org/pub/linux/utils/util-linux/v2.29</a>
busybox	1.26.2	<a href="http://www.busybox.net/downloads">http://www.busybox.net/downloads</a>
linux-pam	1.3.0	<a href="http://linux-pam.org/library">http://linux-pam.org/library</a>
flex	2.5.37	<a href="http://download.sourceforge.net/project/flex">http://download.sourceforge.net/project/flex</a>
python3	3.5.2	<a href="http://python.org/ftp/python/3.5.2">http://python.org/ftp/python/3.5.2</a>
readline	7.0	<a href="http://ftpmirror.gnu.org/readline">http://ftpmirror.gnu.org/readline</a>
bellagio	0.9.3	<a href="http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3">http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3</a>
bitstream	1.1	<a href="https://get.videolan.org/bitstream/1.1">https://get.videolan.org/bitstream/1.1</a>
bluez5_utils	5.43	<a href="https://cdn.kernel.org/pub/linux/bluetooth">https://cdn.kernel.org/pub/linux/bluetooth</a>
libical	1.0.1	<a href="https://github.com/libical/libical/releases/download/v1.0.1">https://github.com/libical/libical/releases/download/v1.0.1</a>
eudev	3.2.1	<a href="http://dev.gentoo.org/~blueness/eudev">http://dev.gentoo.org/~blueness/eudev</a>
kmod	23	<a href="https://cdn.kernel.org/pub/linux/utils/kernel/kmod">https://cdn.kernel.org/pub/linux/utils/kernel/kmod</a>
bridge-utils	1.6	<a href="https://cdn.kernel.org/pub/linux/utils/net/bridge-utils">https://cdn.kernel.org/pub/linux/utils/net/bridge-utils</a>

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ca-certificates	20161130	<a href="http://snapshot.debian.org/archive/debian/20161205T153846Z/pool/main/c/ca-certificates">http://snapshot.debian.org/archive/debian/20161205T153846Z/pool/main/c/ca-certificates</a>
collectd	5.7.1	<a href="http://collectd.org/files">http://collectd.org/files</a>
libgcrypt	1.7.9	<a href="https://gnupg.org/ftp/gcrypt/libgcrypt">https://gnupg.org/ftp/gcrypt/libgcrypt</a>
libgpg-error	1.26	<a href="ftp://ftp.gnupg.org/gcrypt/libgpg-error">ftp://ftp.gnupg.org/gcrypt/libgpg-error</a>
lm-sensors	3.4.0	<a href="http://snapshot.debian.org/archive/debian/20170208T211941Z/pool/main/l/lm-sensors">http://snapshot.debian.org/archive/debian/20170208T211941Z/pool/main/l/lm-sensors</a>
crda	3.18	<a href="https://cdn.kernel.org/pub/software/network/crda">https://cdn.kernel.org/pub/software/network/crda</a>
libnl	3.2.27	<a href="https://github.com/thom311/libnl/releases/download/libnl3_2_27">https://github.com/thom311/libnl/releases/download/libnl3_2_27</a>
cryptodev-linux	1.8	<a href="https://github.com/cryptodev-linux/cryptodev-linux/archive/2b29be8ac41414ed19cb4f5d5626d9bd0d7b11a8">https://github.com/cryptodev-linux/cryptodev-linux/archive/2b29be8ac41414ed19cb4f5d5626d9bd0d7b11a8</a>
linux	4.4.11	<a href="https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/">https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/</a>
cryptsetup	1.7.3	<a href="https://cdn.kernel.org/pub/linux/utils/cryptsetup/v1.7">https://cdn.kernel.org/pub/linux/utils/cryptsetup/v1.7</a>
lvm2	2.02.168	<a href="ftp://sources.redhat.com/pub/lvm2/releases">ftp://sources.redhat.com/pub/lvm2/releases</a>
popt	1.16	<a href="http://rpm5.org/files/popt">http://rpm5.org/files/popt</a>
dhcp	4.3.5	<a href="http://ftp.isc.org/isc/dhcp/4.3.5">http://ftp.isc.org/isc/dhcp/4.3.5</a>
dmidecode	3.0	<a href="http://download.savannah.gnu.org/releases/dmidecode">http://download.savannah.gnu.org/releases/dmidecode</a>
dnsmasq	2.78	<a href="http://thekelleys.org.uk/dnsmasq">http://thekelleys.org.uk/dnsmasq</a>
dosfstools	4.0	<a href="https://github.com/dosfstools/dosfstools/releases/download/v4.0">https://github.com/dosfstools/dosfstools/releases/download/v4.0</a>
dropbear	2017.75	<a href="http://matt.ucc.asn.au/dropbear/releases">http://matt.ucc.asn.au/dropbear/releases</a>
dvblast	3.0	<a href="https://get.videolan.org/dvblast/3.0">https://get.videolan.org/dvblast/3.0</a>
libev	4.22	<a href="http://dist.schmorp.de/libev/Attic">http://dist.schmorp.de/libev/Attic</a>
e2fsprogs	1.43.3	<a href="https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.43.3">https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.43.3</a>
faad2	2.8.1	<a href="http://downloads.sourceforge.net/project/faac/faad2-src/faad2-2.8.0">http://downloads.sourceforge.net/project/faac/faad2-src/faad2-2.8.0</a>
fbv	1.0b	<a href="http://s-tech.elsat.net.pl/fbv">http://s-tech.elsat.net.pl/fbv</a>
giflib	5.1.4	<a href="http://downloads.sourceforge.net/project/giflib">http://downloads.sourceforge.net/project/giflib</a>
jpeg-turbo	1.5.1	<a href="http://downloads.sourceforge.net/project/libjpeg-turbo/1.5.1">http://downloads.sourceforge.net/project/libjpeg-turbo/1.5.1</a>
libpng	1.6.28	<a href="http://downloads.sourceforge.net/project/libpng/libpng16/1.6.28">http://downloads.sourceforge.net/project/libpng/libpng16/1.6.28</a>
ffmpeg	2.8.6	<a href="http://ffmpeg.org/releases">http://ffmpeg.org/releases</a>
fontconfig	2.12.1	<a href="http://fontconfig.org/release">http://fontconfig.org/release</a>
freetype	2.7.1	<a href="http://download.savannah.gnu.org/releases/freetype">http://download.savannah.gnu.org/releases/freetype</a>
libva	1.8.3	<a href="https://github.com/01org/libva/releases/download/1.8.3">https://github.com/01org/libva/releases/download/1.8.3</a>
libdrm	2.4.82	<a href="http://dri.freedesktop.org/libdrm">http://dri.freedesktop.org/libdrm</a>
mesa3d	11.2.2	<a href="ftp://ftp.freedesktop.org/pub/mesa/11.2.2">ftp://ftp.freedesktop.org/pub/mesa/11.2.2</a>
libva-dummy	1.8.3	<a href="https://github.com/01org/libva/releases/download/1.8.3">https://github.com/01org/libva/releases/download/1.8.3</a>

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xlib_libXext	1.3.3	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_libXfixes	5.0.3	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_fixesproto	5.0	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
libvdpau	1.1.1	<a href="http://people.freedesktop.org/~aplattner/vdpau">http://people.freedesktop.org/~aplattner/vdpau</a>
xproto_dri2proto	2.8	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
openssl	1.0.2m	<a href="http://www.openssl.org/source">http://www.openssl.org/source</a>
xlib_libXdamage	1.1.4	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_damageproto	1.2.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libxshmfence	1.2	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_dri3proto	1.0	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_glxproto	1.4.17	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_presentproto	1.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_xf86driproto	2.1.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
libvorbis	1.3.5	<a href="http://downloads.xiph.org/releases/vorbis">http://downloads.xiph.org/releases/vorbis</a>
libogg	1.3.2	<a href="http://downloads.xiph.org/releases/ogg">http://downloads.xiph.org/releases/ogg</a>
opus	1.1.4	<a href="http://downloads.xiph.org/releases/opus">http://downloads.xiph.org/releases/opus</a>
speex	1.2rc1	<a href="http://downloads.us.xiph.org/releases/speex">http://downloads.us.xiph.org/releases/speex</a>
file	5.32	<a href="ftp://ftp.astron.com/pub/file">ftp://ftp.astron.com/pub/file</a>
flashrom	0.9.8	<a href="http://download.flashrom.org/releases">http://download.flashrom.org/releases</a>
libftdi	0.20	<a href="http://www.intra2net.com/en/developer/libftdi/download">http://www.intra2net.com/en/developer/libftdi/download</a>
libusb	1.0.20	<a href="https://github.com/libusb/libusb/releases/download/v1.0.20">https://github.com/libusb/libusb/releases/download/v1.0.20</a>
libusb-compat	0.1.5	<a href="http://downloads.sourceforge.net/project/libusb/libusb-compat-0.1/libusb-compat-0.1.5">http://downloads.sourceforge.net/project/libusb/libusb-compat-0.1/libusb-compat-0.1.5</a>
pciutils	3.5.2	<a href="https://cdn.kernel.org/pub/software/utils/pciutils">https://cdn.kernel.org/pub/software/utils/pciutils</a>
gdb	7.11.1	<a href="http://ftpmirror.gnu.org/gdb">http://ftpmirror.gnu.org/gdb</a>
gnu-efi	3.0.1	<a href="http://downloads.sourceforge.net/project/gnu-efi">http://downloads.sourceforge.net/project/gnu-efi</a>
gnupg2	2.0.30	<a href="ftp://ftp.gnupg.org/gcrypt/gnupg">ftp://ftp.gnupg.org/gcrypt/gnupg</a>
libassuan	2.4.3	<a href="ftp://ftp.gnupg.org/gcrypt/libassuan">ftp://ftp.gnupg.org/gcrypt/libassuan</a>
libksba	1.3.5	<a href="ftp://ftp.gnupg.org/gcrypt/libksba">ftp://ftp.gnupg.org/gcrypt/libksba</a>
libpthsem	2.0.8	<a href="http://www.auto.tuwien.ac.at/~mkoegler/pth">http://www.auto.tuwien.ac.at/~mkoegler/pth</a>
gst1-libav	1.12.5	<a href="http://gstreamer.freedesktop.org/src/gst-libav">http://gstreamer.freedesktop.org/src/gst-libav</a>
gst1-plugins-base	1.12.5	<a href="https://gstreamer.freedesktop.org/src/gst-plugins-base">https://gstreamer.freedesktop.org/src/gst-plugins-base</a>
gstreamer1	1.12.5	<a href="https://gstreamer.freedesktop.org/src/gstreamer">https://gstreamer.freedesktop.org/src/gstreamer</a>
xlib_libXv	1.0.11	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>

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xproto_videoproto	2.3.3	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
gst1-plugins-bad	1.12.5	<a href="https://gstreamer.freedesktop.org/src/gst-plugins-bad">https://gstreamer.freedesktop.org/src/gst-plugins-bad</a>
libglu	9.0.0	<a href="http://cgit.freedesktop.org/mesa/glu/snapshot">http://cgit.freedesktop.org/mesa/glu/snapshot</a>
xlib_libXrender	0.9.10	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_renderproto	0.11.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
gst1-plugins-good	1.12.5	<a href="https://gstreamer.freedesktop.org/src/gst-plugins-good">https://gstreamer.freedesktop.org/src/gst-plugins-good</a>
libv4l	1.12.2	<a href="http://linuxtv.org/downloads/v4l-utils">http://linuxtv.org/downloads/v4l-utils</a>
pulseaudio	9.0	<a href="http://freedesktop.org/software/pulseaudio/releases">http://freedesktop.org/software/pulseaudio/releases</a>
json-c	json-c-0.12-20140410	<a href="https://github.com/json-c/json-c/archive/json-c-0.12-20140410">https://github.com/json-c/json-c/archive/json-c-0.12-20140410</a>
libtool	2.4.6	<a href="http://ftpmirror.gnu.org/libtool">http://ftpmirror.gnu.org/libtool</a>
gst1-vaapi	1.12.5	<a href="https://gstreamer.freedesktop.org/src/gstreamer-vaapi">https://gstreamer.freedesktop.org/src/gstreamer-vaapi</a>
hostapd	2.6	<a href="http://w1.fi/releases">http://w1.fi/releases</a>
htop	2.0.2	<a href="http://hisham.hm/htop/releases/2.0.2">http://hisham.hm/htop/releases/2.0.2</a>
iperf	2.0.9	<a href="http://downloads.sourceforge.net/project/iperf2">http://downloads.sourceforge.net/project/iperf2</a>
iptables	1.6.1	<a href="http://ftp.netfilter.org/pub/iptables">http://ftp.netfilter.org/pub/iptables</a>
iw	4.9	<a href="https://cdn.kernel.org/pub/software/network/iw">https://cdn.kernel.org/pub/software/network/iw</a>
libarchive	3.3.2	<a href="http://www.libarchive.org/downloads">http://www.libarchive.org/downloads</a>
libxml2	2.9.5	<a href="ftp://xmlsoft.org/libxml2">ftp://xmlsoft.org/libxml2</a>
libbsd	0.8.3	<a href="http://libbsd.freedesktop.org/releases">http://libbsd.freedesktop.org/releases</a>
libconfig	1.5	<a href="http://www.hyperrealm.com/libconfig">http://www.hyperrealm.com/libconfig</a>
libcurl	7.56.1	<a href="https://curl.haxx.se/download">https://curl.haxx.se/download</a>
libdri2	1.0.0	<a href="https://github.com/robclark/libdri2/archive/4f1eef3183df2b270c3d5cbef07343ee5127a6a4">https://github.com/robclark/libdri2/archive/4f1eef3183df2b270c3d5cbef07343ee5127a6a4</a>
libedit	20150325-3.1	<a href="http://www.thrysoee.dk/editline">http://www.thrysoee.dk/editline</a>
libepoxy	v1.3.1	<a href="https://github.com/anholt/libepoxy/archive/v1.3.1">https://github.com/anholt/libepoxy/archive/v1.3.1</a>
libestr	0.1.10	<a href="http://libestr.adiscon.com/files/download">http://libestr.adiscon.com/files/download</a>
libevdev	1.5.6	<a href="http://www.freedesktop.org/software/libevdev">http://www.freedesktop.org/software/libevdev</a>
libevent	2.1.8-stable	<a href="https://github.com/libevent/libevent/releases/download/release-2.1.8-stable">https://github.com/libevent/libevent/releases/download/release-2.1.8-stable</a>
libfastjson	v0.99.4	<a href="https://github.com/rsyslog/libfastjson/archive/v0.99.4">https://github.com/rsyslog/libfastjson/archive/v0.99.4</a>
liblogging	1.0.5	<a href="http://download.rsyslog.com/liblogging">http://download.rsyslog.com/liblogging</a>
libpciaccess	0.13.4	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
libqrencode	3.4.2	<a href="http://fukuchi.org/works/qrencode">http://fukuchi.org/works/qrencode</a>
libsha1	0.3	<a href="https://github.com/dottedmag/libsha1/archive/0.3">https://github.com/dottedmag/libsha1/archive/0.3</a>

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libxkbcommon	0.7.1	<a href="http://xkbcommon.org/download">http://xkbcommon.org/download</a>
libyaml	0.1.6	<a href="http://pyyaml.org/download/libyaml">http://pyyaml.org/download/libyaml</a>
lighttpd	1.4.45	<a href="http://download.lighttpd.net/lighttpd/releases-1.4.x">http://download.lighttpd.net/lighttpd/releases-1.4.x</a>
linux-firmware	unknown	<a href="http://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git">http://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git</a>
logrotate	3.11.0	<a href="https://github.com/logrotate/logrotate/archive/3.11.0">https://github.com/logrotate/logrotate/archive/3.11.0</a>
memtester	4.3.0	<a href="http://pyropus.ca/software/memtester/old-versions">http://pyropus.ca/software/memtester/old-versions</a>
monit	5.20.0	<a href="http://mmonit.com/monit/dist">http://mmonit.com/monit/dist</a>
mtdev	1.1.4	<a href="http://bitmath.org/code/mtdev">http://bitmath.org/code/mtdev</a>
netcat	0.7.1	<a href="http://downloads.sourceforge.net/project/netcat/netcat/0.7.1">http://downloads.sourceforge.net/project/netcat/netcat/0.7.1</a>
netsnmp	5.7.3	<a href="http://downloads.sourceforge.net/project/net-snmp/net-snmp/5.7.3">http://downloads.sourceforge.net/project/net-snmp/net-snmp/5.7.3</a>
nodejs	6.11.5	<a href="http://nodejs.org/dist/v6.11.5">http://nodejs.org/dist/v6.11.5</a>
ntp	4.2.8p10	<a href="https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2">https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2</a>
opkg	v0.3.1	<a href="http://git.yoctoproject.org/git/opkg">http://git.yoctoproject.org/git/opkg</a>
opus-tools	0.1.9	<a href="http://downloads.xiph.org/releases/opus">http://downloads.xiph.org/releases/opus</a>
php	7.1.7	<a href="http://www.php.net/distributions">http://www.php.net/distributions</a>
sqlite	3160200	<a href="http://www.sqlite.org/2017">http://www.sqlite.org/2017</a>
pixman	0.34.0	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
protobuf	v2.6.1	<a href="https://github.com/google/protobuf/archive/v2.6.1">https://github.com/google/protobuf/archive/v2.6.1</a>
python-pyyaml	3.12	<a href="https://pypi.python.org/packages/4a/85/db5a2df477072b2902b0eb892feb37d88ac635d36245a72a6a69b23-b383a">https://pypi.python.org/packages/4a/85/db5a2df477072b2902b0eb892feb37d88ac635d36245a72a6a69b23-b383a</a>
python-serial	3.1	<a href="https://pypi.python.org/packages/ce/9c/694ce79a9d4a164e109aeba1a40fba23336f3-b7554978553e22a5d41d54d">https://pypi.python.org/packages/ce/9c/694ce79a9d4a164e109aeba1a40fba23336f3-b7554978553e22a5d41d54d</a>
qt5base	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
xcb-util-image	0.4.0	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
xcb-util	0.3.9	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
xcb-util-keysyms	0.4.0	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
xcb-util-wm	0.4.1	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>
qt5declarative	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5xmlpatterns	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5imageformats	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5multimedia	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5quickcontrols	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5serialport	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>

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qt5svg	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5websockets	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
qt5x11extras	5.6.3	<a href="http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules">http://download.qt.io/official_releases/qt/5.6/5.6.3/submodules</a>
rsync	3.1.2	<a href="http://rsync.samba.org/ftp/rsync/src">http://rsync.samba.org/ftp/rsync/src</a>
rsyslog	8.22.0	<a href="http://rsyslog.com/files/download/rsyslog">http://rsyslog.com/files/download/rsyslog</a>
strace	4.15	<a href="http://downloads.sourceforge.net/project/strace/strace/4.15">http://downloads.sourceforge.net/project/strace/strace/4.15</a>
tpm-tools	1.3.8	<a href="http://downloads.sourceforge.net/project/trousers/tpm-tools/1.3.8">http://downloads.sourceforge.net/project/trousers/tpm-tools/1.3.8</a>
trousers	0.3.13	<a href="http://downloads.sourceforge.net/project/trousers/trousers/0.3.13">http://downloads.sourceforge.net/project/trousers/trousers/0.3.13</a>
tzdata	2016j	<a href="http://www.iana.org/time-zones/repository/releases">http://www.iana.org/time-zones/repository/releases</a>
unzip	60	<a href="ftp://ftp.info-zip.org/pub/infozip/src">ftp://ftp.info-zip.org/pub/infozip/src</a>
wireless-regdb	2011.04.28	<a href="http://kernel.org/pub/software/network/wireless-regdb">http://kernel.org/pub/software/network/wireless-regdb</a>
wireless_tools	30.pre9	<a href="http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux">http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux</a>
wpa_supplicant	2.6	<a href="http://w1.fi/releases">http://w1.fi/releases</a>
xapp_beforelight	1.0.5	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xlib_libXScrnSaver	1.2.2	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_scnrsaverproto	1.2.2	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libXaw	1.0.13	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_libXmu	1.1.2	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_libXt	1.1.5	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_libXpm	3.5.12	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xapp_xauth	1.0.10	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xapp_xclock	1.0.7	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xlib_libXft	2.3.2	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_libxkbfile	1.0.9	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xapp_xinit	1.3.4	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xapp_xinput-calibrator	0.7.5	<a href="http://github.com/downloads/tias/xinput_calibrator">http://github.com/downloads/tias/xinput_calibrator</a>
xlib_libXi	1.7.9	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xapp_xinput	1.6.2	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xlib_libXinerama	1.1.3	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_xineramaproto	1.2.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libXrandr	1.5.1	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_randrproto	1.5.0	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>

PACKAGE	VERSION	SOURCE SITE
xapp_xkbcomp	1.3.1	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xapp_xrandr	1.5.0	<a href="http://xorg.freedesktop.org/releases/individual/app">http://xorg.freedesktop.org/releases/individual/app</a>
xdata_xbitmaps	1.1.1	<a href="http://xorg.freedesktop.org/releases/individual/data">http://xorg.freedesktop.org/releases/individual/data</a>
xdriver_xf86-input-evdev	2.10.5	<a href="http://xorg.freedesktop.org/releases/individual/driver">http://xorg.freedesktop.org/releases/individual/driver</a>
xserver_xorg-server	1.19.5	<a href="https://xorg.freedesktop.org/archive/individual/xserver">https://xorg.freedesktop.org/archive/individual/xserver</a>
xfont_font-util	1.3.1	<a href="http://xorg.freedesktop.org/releases/individual/font">http://xorg.freedesktop.org/releases/individual/font</a>
xkeyboard-config	2.20	<a href="http://www.x.org/releases/individual/data/xkeyboard-config">http://www.x.org/releases/individual/data/xkeyboard-config</a>
xlib_libXcomposite	0.4.4	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_compositeproto	0.4.2	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libXcursor	1.1.14	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xlib_libXfont2	2.0.1	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xfont_encodings	1.0.4	<a href="http://xorg.freedesktop.org/releases/individual/font">http://xorg.freedesktop.org/releases/individual/font</a>
xlib_libfontenc	1.1.3	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_fontsproto	2.1.3	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libXres	1.0.7	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_resourceproto	1.2.0	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xlib_libXxf86vm	1.1.4	<a href="http://xorg.freedesktop.org/releases/individual/lib">http://xorg.freedesktop.org/releases/individual/lib</a>
xproto_xf86vidmodeproto	2.3.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_bigreqsproto	1.1.2	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_xcmiscproto	1.2.2	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xproto_xf86dgaproto	2.1	<a href="http://xorg.freedesktop.org/releases/individual/proto">http://xorg.freedesktop.org/releases/individual/proto</a>
xdriver_xf86-video-amdgpu	1.4.0	<a href="http://xorg.freedesktop.org/releases/individual/driver">http://xorg.freedesktop.org/releases/individual/driver</a>
xfont_font-alias	1.0.3	<a href="http://xorg.freedesktop.org/releases/individual/font">http://xorg.freedesktop.org/releases/individual/font</a>
xfont_font-cursor-misc	1.0.3	<a href="http://xorg.freedesktop.org/releases/individual/font">http://xorg.freedesktop.org/releases/individual/font</a>
xfont_font-misc-misc	1.1.2	<a href="http://xorg.freedesktop.org/releases/individual/font">http://xorg.freedesktop.org/releases/individual/font</a>
xterm	327	<a href="http://invisible-mirror.net/archives/xterm">http://invisible-mirror.net/archives/xterm</a>
zbar	0.10	<a href="https://github.com/ZBar/Zbar/archive/854a5d97059e395807091ac4d80c53f7968abb8f">https://github.com/ZBar/Zbar/archive/854a5d97059e395807091ac4d80c53f7968abb8f</a>
zip	30	<a href="ftp://ftp.info-zip.org/pub/infozip/src">ftp://ftp.info-zip.org/pub/infozip/src</a>
alsa-plugins	1.1.1	<a href="ftp://ftp.alsa-project.org/pub/plugins">ftp://ftp.alsa-project.org/pub/plugins</a>
microstack	0.0.69	<a href="http://www.meshcommander.com/upnptools">www.meshcommander.com/upnptools</a>

PACKAGE	VERSION	SOURCE SITE
libresample	0.1.3	ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample
sazanami-fonts	20040629	http://sourceforge.jp/projects/efont/downloads/10087
unfonts	1.0	http://kldp.net/frs/download.php/1425
dejavu-fonts	2.34	http://downloads.sourceforge.net/project/dejavu/dejavu/2.34
arphic-uming-fonts	20080216	http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming
ibmswtpm	4720	https://sourceforge.net/projects/ibmswtpm/files/
grub	2.02-beta2	https://github.com/coreos/grub/releases
rockbox	v3.10	https://github.com/Rockbox/rockbox/tree/v3.10
libcap	2.25	https://www.kernel.org/pub/linux/libs/security/linux-privs/libcap2
mtd	1.5.2	ftp://ftp.infradead.org/pub/mtd-utils
procps-ng	3.3.12	http://downloads.sourceforge.net/project/procps-ng/Production
strace	4.15	http://downloads.sourceforge.net/project/strace/strace/4.15
hidapi	0.5.2	https://github.com/signal11/hidapi
splashutils	1.5.4.4	http://dev.gentoo.org/~spock/projects/gensplash/archive
efitools	v1.7.0	git://git.kernel.org/pub/scm/linux/kernel/git/jejb/efitools.git
libresample	0.1.3	ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample
linux	3.1.0	https://mirrors.edge.kernel.org/pub/linux/kernel/v3.x/

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## EN55032-CISPR32 Class B ITE (Information Technology Equipment)

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

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

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

## Federal Communication Commission Interference Statement

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

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

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

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

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

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

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

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

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

Base Unit FCC ID: 2AAED-R9861580

Button FCC ID (model R9861500D01): 2AAED-R9861500D01

Button FCC ID (model R9861500D01C): 2AAED-R9861500D01

ClickShare Button 2AAED-R9861500D01 has been tested and meets the FCC RF exposure guidelines. The maximum SAR value reported is 0.915W/kg.

## Canada, Industry Canada (IC) Notices

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

### Radio Frequency (RF) Exposure Information

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

#### Caution: Exposure to Radio Frequency Radiation.

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

Base Unit IC: IC: 21559-R9861580

Button IC (model R9861500D01): 9393B-R9861500D01

Button IC (model R9861500D01C): 9393B-R9861500D01

### IC Antenna statement

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

This radio transmitter 21559-R9861580 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Type: Dipole

Maximum Peak Gain: 2 dBi

Impedance: 50

### Indoor use only warning

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

### Informations concernant l'exposition aux fréquences radio (RF)

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

#### Avertissement: L'exposition aux rayonnements fréquences radio

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

IC Unité de Base: 21559-R9861580

IC Button (modèle R9861500D01): 9393B-R9861500D01

IC Button (model R9861500D01C): 9393B-R9861500D01

### Déclaration d'antenne d'Industrie Canada (IC)

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type

d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio 21559-R9861580 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Type: Dipole

Gain maximum: 2 dBi

Impédance: 50

### **Utilisation à l'intérieur seulement**

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

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# Introduction to the Installation Guide

# 1

## 1.1 Documentation

### This guide

Partnumber	Description	Level
R5900049	Installation Guide	Installation engineer

This installation guide explains how to install your CSE-800 in a meeting room, It explains also how to make everything operational. It provides detailed information on how to configure your CSE-800.

### Available System documentation

This guide is part of the documentation set describing the CSE-800 product.

Guide	Article number
User Guide	R5900050
Installation Guide	R5900049
Safety Guide	R5900047
Service Guide	R5900051
Button Guide	R5900007
Recycling Manual	R5900048
API Guide	R5900018

A printed copy of the Safety Guide is included in the CSE-800 box at purchase.



Always check for the latest version of the manual on [www.barco.com/clickshare](http://www.barco.com/clickshare)

## 1.2 Symbols and fonts

### Symbol overview

The following icons are used in the manual :

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

### Font overview

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

# CSE-800 Specifications

# 2

## 2.1 About the CSE-800

### CSE-800 sets

CSE-800 makes connecting to the meeting room's video system a matter of clicking a Button. This CSE-800 not only helps the presenter get the presentation on-screen in a second, but it also allows the other people in the meeting to participate more actively. The result is enhanced meeting efficiency and better decision-making.

At the moment 3 different sets are available on the market. Each set is sold in its specific region and it can only be used in that specific region because of WiFi regulations.

### Components CSE-800 set

A standard CSE-800 set consists of a Base Unit, 4 Buttons and a Tray. Depending on the location where you buy the product, the software of the Base Unit is different. If needed, you can buy additional Buttons and Trays.

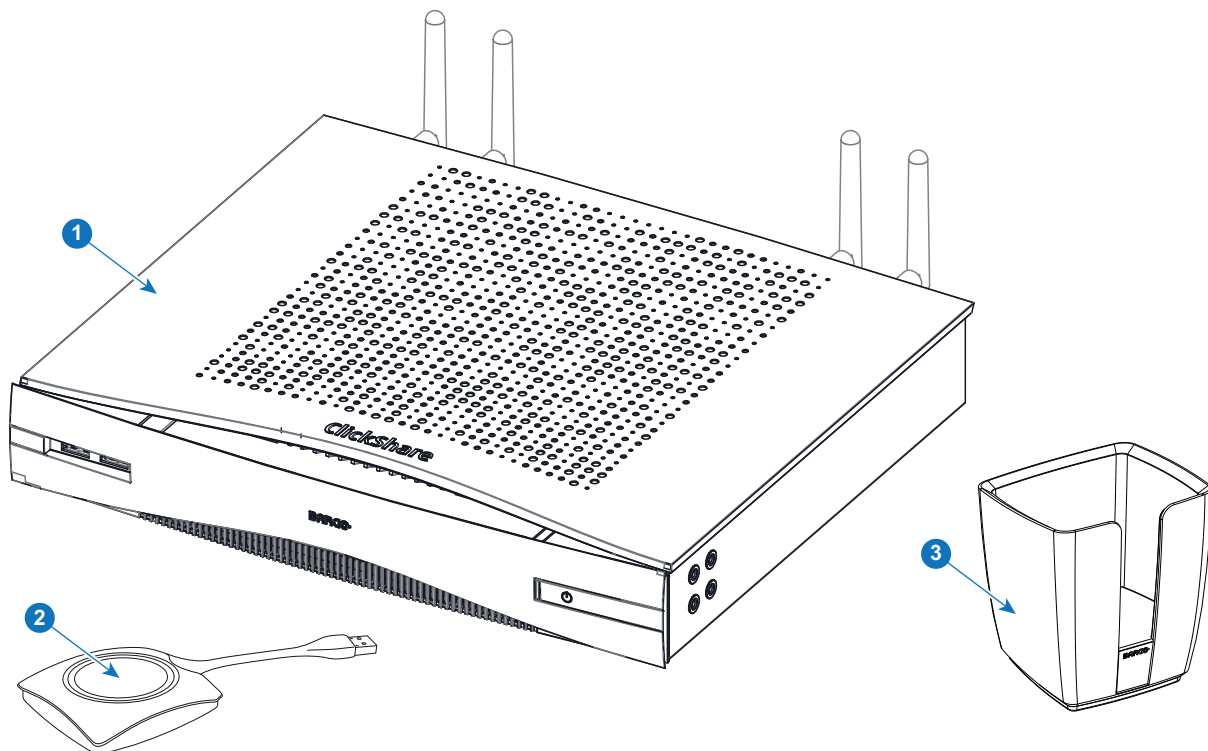


Image 2-1

### Accessories included

Depending on the country where you buy the product, the following regionalized accessories are also included in the CSE-800 box.

Regional version	Contains	Accessories included
R9861580EU	<ul style="list-style-type: none"> <li>• R9861580EU</li> <li>• 4x R9861500D01</li> <li>• R9861500T01</li> </ul>	<ul style="list-style-type: none"> <li>• power cables CEE7 and BS 1363</li> <li>• wall/ceiling mounting brackets</li> <li>• antenna extension cables</li> </ul>
R9861580CN	<ul style="list-style-type: none"> <li>• R9861580CN</li> <li>• 4x R9861500D01</li> <li>• R9861500T01</li> </ul>	<ul style="list-style-type: none"> <li>• power cable GB 2099</li> <li>• wall/ceiling mounting brackets</li> <li>• antenna extension cables</li> </ul>
R9861580NA	<ul style="list-style-type: none"> <li>• R9861580NA</li> <li>• 4x R9861500D01</li> <li>• R9861500T01</li> </ul>	<ul style="list-style-type: none"> <li>• power cable NEMA 5/15</li> <li>• wall/ceiling mounting brackets</li> <li>• antenna extension cables</li> </ul>

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

## 2.2 CSE-800 specifications

### Base Unit

<b>Dimensions (HxWxD)</b>	46.2mm x 282.3mm x 206.5mm (excl. antennas) / 1.8" x 11.1" x 8.1" 146.4mm x 282.3mm x 206.5mm (incl. antennas) / 5.8" x 11.1" x 8.1"
<b>Power supply</b>	Standard 110/220 V AC plug
<b>Power consumption</b>	Normal operation: 90W under full usage 52W under normal usage (connect 2 HDMI outputs, connect 1 HDMI input, share with 4 people) ECO mode: 30W Networked standby mode: < 1W Deep standby mode: < 0.5W
<b>Weight</b>	2.2kg / 4.85lbs
<b>Operating system</b>	Windows 7/8/8.1/10 32 & 64 bit macOS 10.14/10.15 (Catalina) Android 9 & 10 (ClickShare app) iOS 11, 12 & 13 (ClickShare app)
<b>Video outputs</b>	2x HDMI 1.4b
<b>Video inputs</b>	2x HDMI 1.2
<b>Output resolution</b>	4K DCI (4096x2160) @ 60Hz
<b>Input resolutions</b>	4K DCI (4096x2160) @ 60Hz
<b>Audio</b>	Via HDMI, analog via Audio Jack 3.5mm, S/PDIF
<b>AirPlay Support</b>	iOS 11, 12 & 13 / macOS 10.14, 10.15
<b>Google Cast Support</b>	Android 9, 10
<b>Frame rate</b>	Using HDMI inputs: Up to 60fps with one input @ 4K Up to 30fps with two inputs @ 4K* Using the ClickShare Button or Apps: Up to 30 fps @1080p
<b>Number of sources simultaneous on screen</b>	8 (4 per screen)
<b>Number of simultaneous connections</b>	64 (Button and/or App)
<b>iPad, iPhone and Android compatibility</b>	Sharing of documents, browser, camera for both Android and iOS devices via ClickShare app or using AirPlay / Google Cast
<b>Extended desktop</b>	Available for Windows, requires ClickShare Extension Pack.
<b>Authentication protocol</b>	WPA2-PSK in stand-alone mode WPA2-PSK or IEEE 802.1X using the ClickShare Button in network integration mode

<b>Wireless transmission protocol</b>	IEEE 802.11 a/b/g/n and IEEE 802.15.1
<b>Reach</b>	Adjustable with signal strength modulation; max. 30m (100 ft) between ClickShare Button and ClickShare Base Unit
<b>Frequency band</b>	2.4 GHZ and 5 GHZ (DFS channels not supported)
<b>Connections</b>	2x Ethernet LAN 1Gbit 2x USB 2.0; 2x USB 3.0 (back); 2x USB 3.0 (front) Audio analog line out on mini jack socket (3.5mm), digital S/PDIF
<b>Noise Level</b>	Max. 25dBA @ 0-30°C Max. 30dBA @ 30-40°C
<b>Temperature range</b>	Operating: 0°C to +40°C (+32°F to +104°F) Max: 35°C (95°F) at 3000m Storage: -20°C to +60°C (-4°F to +140°F)
<b>Humidity</b>	Storage: 0 to 90% relative humidity, non-condensing Operation: 0 to 85% relative humidity, non-condensing
<b>Anti-theft system</b>	Kensington lock
<b>Certifications</b>	FCC/CE
<b>Warranty</b>	3 years standard Possible to extend to 5 years
<b>*Note</b>	*In optimal WiFi conditions with minimal WiFi interference and as measured during our quality validation. Check Network Deployment Guide for more info on WiFi optimisation and ideal configuration depending on your network environment.

## Button

<b>Weight</b>	75 g/0.165 lb
<b>Frequency band</b>	2.4 GHZ and 5 GHZ
<b>Wireless transmission protocol</b>	IEEE 802.11 a/b/g/n
<b>Authentication protocol</b>	WPA2-PSK in stand alone mode WPA2-PSK or IEEE 802.1X in network integration mode
<b>Dimensions (HxWxD)</b>	16.3 mm x 59.3 mm x 162.52 mm / 0.64" x 2.335" x 6.398"
<b>Power consumption</b>	Powered over USB-C 5V DC 350mA Typical 500mA Maximum

## 2.3 About the Base Unit



### Base Unit

The Base Unit receives the wireless input from the Buttons and controls the content of the meeting room display and the sound of the meeting room's audio system.

The Base Unit can be installed in two different ways.

Front and Top layout of the Base Unit

At the front of the Base Unit you can find a standby button and two USB ports. Status LED is mounted at the left of the standby button.

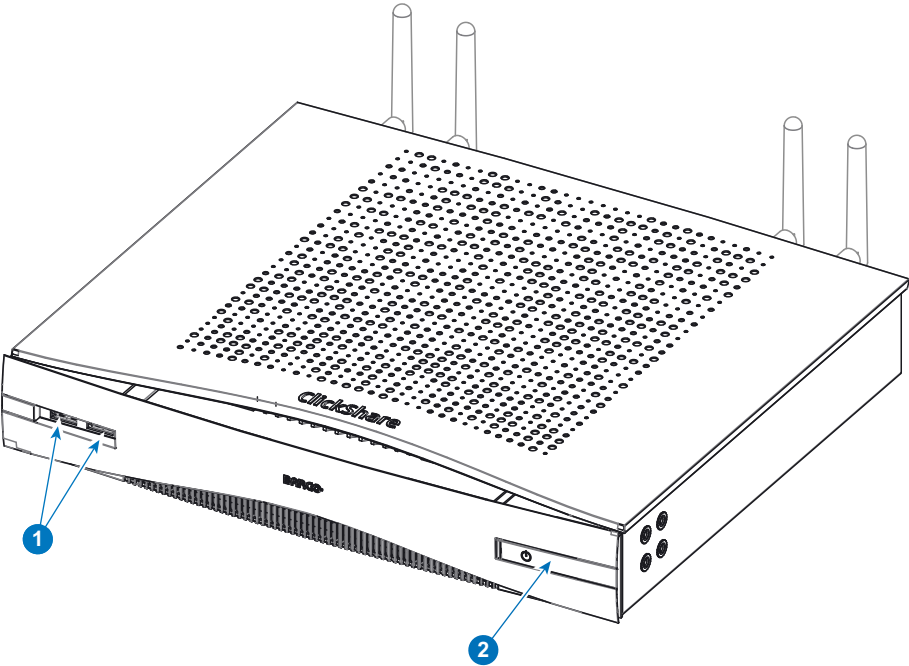


Image 2-2

1	2x USB port 3.0
2	Standby button

USB ports

The USB ports (front or back) are used to update the soft- and firmware of both the Base Unit and the Buttons. To pair the buttons, connect the touchscreen and saving blackboarding/annotation screen to USB stick<sup>2</sup>.

When plugging in the Button into the Base Unit, the Button is paired to the Base Unit. The Base Unit checks whether the Button's software and firmware are up to date. If not, the Base Unit updates the software and/or firmware.

To update the Base Unit software, download the latest version of the software from the Barco website. Copy the file on a USB stick and plug it into the USB port of the Base Unit. Follow the progress and instructions on the display.

Status LED

The color of the LED at the front of the Base Unit give information on the status of the system.

LEDs behavior	Explanation
static red	<ul style="list-style-type: none"><li>receiving content from the Buttons and streaming towards the display.</li><li>pairing and software update of the Button is done. You can now unplug the Button from the Base Unit.</li><li>during the first phase of the Base Unit boot process.</li></ul>
blinking white	<ul style="list-style-type: none"><li>system is starting up (during the second phase)</li><li>Button pairing is in progress</li><li>software update of the Base Unit</li></ul>
breathing white	<ul style="list-style-type: none"><li>ECO standby mode</li></ul>

2: touchscreen connection, blackboarding/annotation screen saving will be available in future releases

**LEDs behavior****Explanation**

static white	<ul style="list-style-type: none"> <li>• awake and ready (i.e. showing the welcome message on the display)</li> <li>• pairing is done</li> </ul>
red blinking	<ul style="list-style-type: none"> <li>• an error occurred</li> </ul>
dark	<ul style="list-style-type: none"> <li>• deep standby/off</li> </ul>

**Standby button**

The button at the front of the Base Unit has a standby function once the Base unit is powered

- When the system is in normal operational mode, a push makes the system goes to a pre-defined standby mode.
- When the system is in a standby mode, a push triggers the system to start up and to go to normal operational mode.

**Back layout of the Base Unit**

The connection panel is situated at the back of the Base unit.

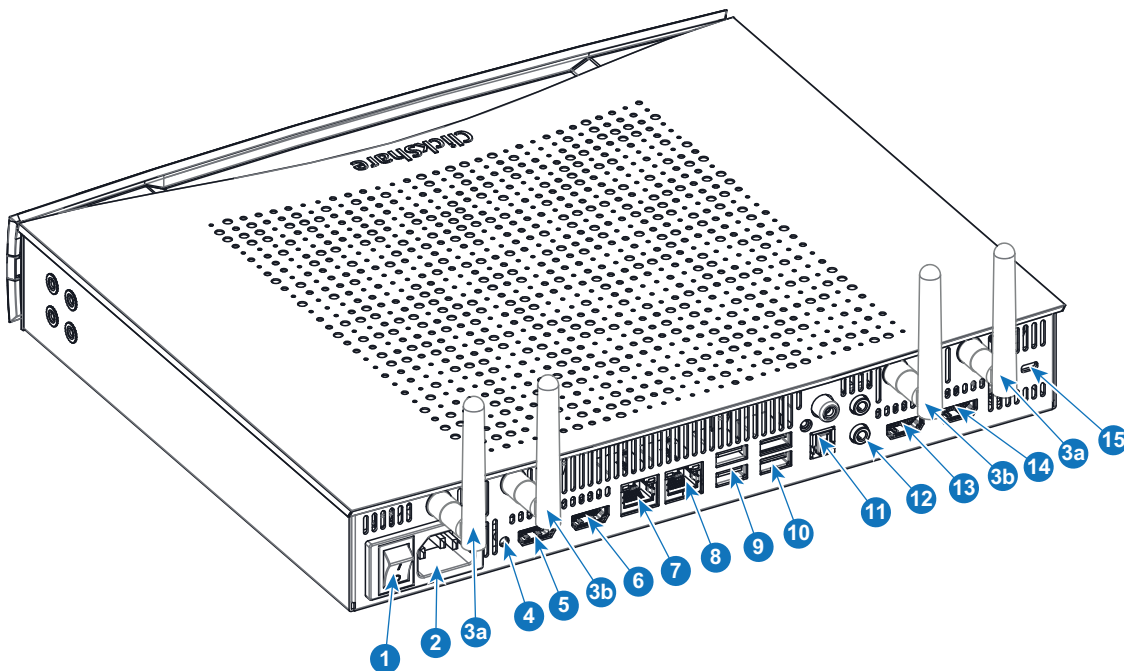


Image 2-3

1	Rocker switch
2	Power connection
3a	Fixture point for antenna WiFi 1
3b	Fixture point for antenna WiFi 2
4	Reset
5	HDMI out 1 connector
6	HDMI out 2 connector
7	LAN 1 connector (primary LAN interface)
8	LAN 2 connector (secondary LAN interface)
9	USB connectors 3.0
10	USB connectors 2.0

- |    |                     |
|----|---------------------|
| 11 | Audio connectors    |
| 12 | Audio connectors    |
| 13 | HDMI in 1 connector |
| 14 | HDMI in 2 connector |
| 15 | Kensington lock     |

## Rocker switch

The rocker switch is used to power on and off the Base Unit.

- To switch on the Base Unit, set the rocker switch to “I”.
- To shut down the system, set the rocker switch to “0”.

## Mechanical fixture points

The mechanical fixture points are located at the bottom of the Base Unit

## Antenna

Four antennas are included in the CSE-800 box for concurrent dual band WiFi. To avoid damage during transport, they are not pre-mounted.

The antennas can rotate for a better wireless connection.

Usage of antennas other than the ones provided with the unit are allowed within the restrictions on usage of other antennas defined by local regulations. Barco does not take responsibility for damage or disturbance of other devices that may be caused by using a different antenna. The use of an active power amplifier is not allowed.

Antenna type : Dipole

Gain : Maximum 2 dBi peak gain in 2.4GHz and 5Ghz band

## Ventilation grids

Ventilation grids are foreseen on the front side and on the back sides of the Base Unit.

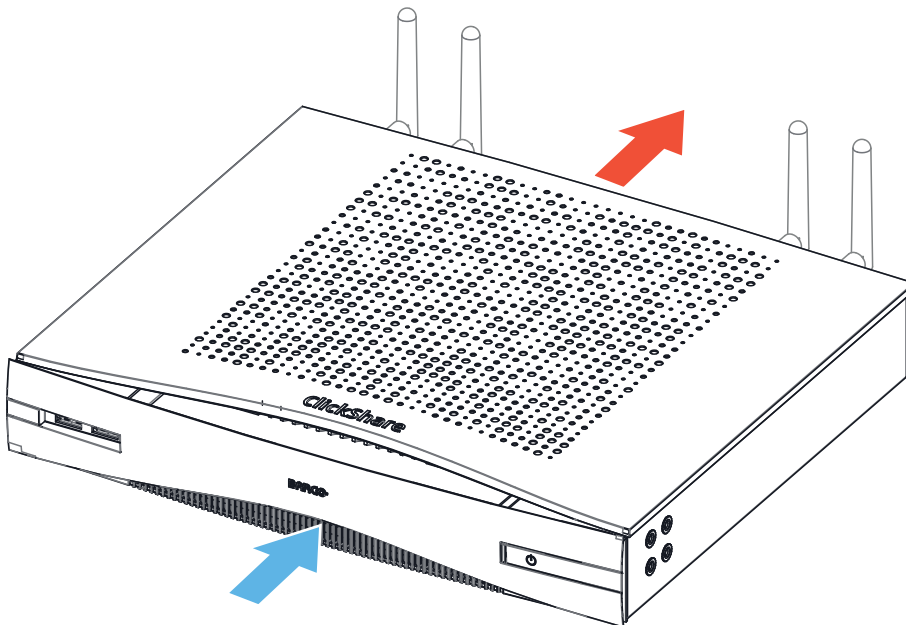


Image 2-4: Ventilation grids IN and OUT

The Base unit sucks air via the front side ventilation grid and push hot air out on the back side ventilation grid.



Make sure not to cover the ventilation grids during operation of the Base Unit. Always keep a free area of minimum 50 mm in front of all ventilation grids.

## Bottom layout of the Base Unit

The serial number label containing the Barco part number, the revision number, production date (week-year) and the serial number.

The product label with the applicable certification logos.

The product label contains:

- the Barco logo
- the product name
- the Barco part number
- the power rating
- markings for applicable standards (CE, CCC, UL, ...)
- markings for waste regulation
- "Made in ..."

## Bluetooth

Bluetooth functionality is currently not available and Bluetooth signal is disabled.

## 2.4 About the Button



### Button

A Button toggles the sharing of the individual PC or MAC screen on the meeting screen.

### Button layout

A Button consists of three main components.

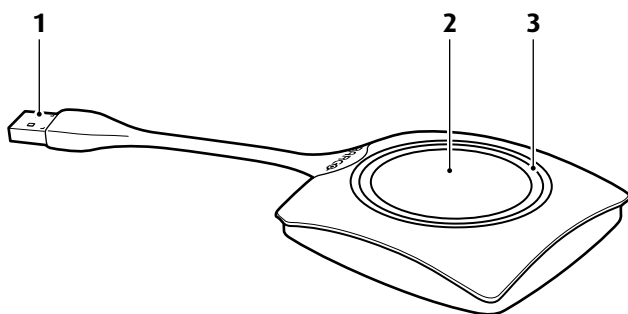


Image 2-5: Button layout

1	USB connector
2	Button
3	LED ring

### USB connector

Using the USB connector the Button can be plugged into a laptop (for sharing your screen) or the Base Unit (for pairing the Button to the Base Unit or updating its software). Button R9861500D1 has a USB Type-A connector, Button R9861500D1C has a USB Type-C™ connector. Depending on the type of USB port on your laptop or on the Base Unit a convertor must be use.

### Button

Click the Button to display the content of the laptop's screen on the meeting room display. Clicking the Button during the meeting will toggle the sharing of the screen.

### LED ring

The LED ring indicates the current status of your ClickShare.

LEDs behavior	Explanation
white blinking	<ul style="list-style-type: none"> <li>the Button is plugged in the laptop and initializing or waiting for the user to start the ClickShare application.</li> <li>pairing/software update of the Button in the Base Unit is in progress.</li> </ul>
static white	<ul style="list-style-type: none"> <li>ClickShare is ready to start sharing your screen.</li> <li>pairing is done. You can now unplug the Button from the Base Unit.</li> </ul>
static red	<ul style="list-style-type: none"> <li>sharing your screen with the display<sup>3</sup>.</li> <li>pairing and software update is done. You can now unplug the Button from the Base Unit.</li> </ul>
red blinking	<ul style="list-style-type: none"> <li>an error occurred.</li> </ul>
off (no light)	<ul style="list-style-type: none"> <li>the Button is not or not properly inserted into the USB port.</li> <li>the Button might be defective.</li> <li>the USB port or computer might be defective.</li> </ul>

## Button label

The label at the bottom of the Button contains:

- the Barco logo
- the Barco part number
- the serial number
- the revision number
- markings for applicable standards
- markings for waste regulation
- "Made in..."



Handle the Button cable with care. Rough handling might cause defects.

## 2.5 Mobile Device Support

### Overview

The below list of Apps are supported by ClickShare and can be installed on your mobile device from Google Play or Apple App Store.

Before you can use your mobile device with ClickShare, you have to connect the mobile device Wi-Fi with the ClickShare Base Unit Wi-Fi. Follow the instructions as given in your mobile device user guide.

#### App

ClickShare App

#### Used on

iOS  
Android

#### Logo



<sup>3</sup>: While sharing content, the laptop will not go to standby. Once sharing is stopped, the laptop will again be capable of going to standby.

## 2.6 Ports used by the ClickShare Base Unit

### Overview

Sender	CSE-800 Base Unit	
ClickShare Button	TCP	6541; 6542; 6543; 6544; 6545
	UDP	514
ClickShare Apps for Windows, MacOS, iOS and Android	TCP	6541; 6542; 6543; 6544; 6545
	UDP	5353
ClickShare Configurator	TCP	80; 443
ClickShare REST API & CMGS/XMS	TCP	4000; 4001
Airplay	TCP	4100-4200; 7000; 7100; 47000
	UDP	4100-4200; 5353
Google Cast	TCP	8008; 8009; 9080
	UDP	1900; 32768:61000 <sup>4</sup>
Auto-update	TCP	80; 443
Button Manager	TCP	6546

If Proxy settings are enabled in the Configurator for auto-update functionality, additional ports may be used.

<sup>4</sup>: Google Cast will pick a random UDP port above 32768 to facilitate video streaming

# Getting started

# 3

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## 3.1 Environmental Condition Check

### Environment condition check

For installations in environments where the device is subject to excessive dust, then it is highly advisable and desirable to have this dust removed prior to it reaching the device clean air supply. Devices or structures to extract or shield excessive dust well away from the device are a prerequisite; if this is not a feasible solution then measures to relocate the device to a clean air environment should be considered.

It is the customer's responsibility to ensure at all times that the device is protected from the harmful effects of hostile airborne particles in the environment of the device. The manufacturer reserves the right to refuse repair if a device has been subject to negligence, abandon or improper use.

### Ambient temperature conditions

Max. ambient temperature : +40°C or 104°F

Min. ambient temperature: +0°C or 32°F

Storage temperature: -10°C to +60°C (14°F to 140°F)

### Humidity Conditions

Storage: 0 to 90% relative humidity, non-condensing

Operation: 0 to 85% relative humidity, non-condensing

### Environment

Do not install the device in a site near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity. Be aware that room heat rises to the ceiling; check that temperature near the installation site is not excessive.

## 3.2 Basic Workflow

### Before using CSE-800

1. Unpack the ClickShare components and accessories from the box.  
For a detailed overview of the content of the CSE-800 box, see "*About the CSE-800*", page 26.
2. Install the Base Unit in the meeting room using one of the 2 possible installation methods.  
For more information on the installing procedures, see "*Installation methods for the Base unit*", page 38.
3. Mount the antennas.
4. Connect the video signals between the Base Unit and the displays.
5. Connect the audio from the Base Unit to the meeting room's sound system (only required for audio via jack, cinch or SPDIF).
6. If configuration via a network is needed, connect a network cable between the Base Unit and the local network.
7. Connect the Base Unit to the mains power.  
For more information see "*Power connection and switching on*", page 44.
8. If needed, connect any input to the CSE-800.
9. If desired, configure CSE-800 via the Configurator.

For more information on the different ways to configure CSE-800, see "*CSE-800 Configurator*", page 53



For more information on using CSE-800, refer to the CSE-800 User Guide. This manual can be found on Barco's website [www.barco.com/clickshare](http://www.barco.com/clickshare).

# CSE-800 Installation

# 4

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**WARNING:** Bottom surface can become hot. Never put the Base Unit on sensitive surfaces.

## 4.1 Installation methods for the Base unit



For optimal performance, install the Base Unit close to the display and avoid obstacles between the Base Unit and the Buttons. Do not block the fan inlets and outlets of the Base Unit!

### Introduction to the installation methods

The base unit can be installed in different ways in a meeting room:

- Table mounted
- Wall mounted
- Ceiling mounted
- Rack mounted

The antennas are removable. They can be fixed to the Base Unit depending on the way the Base Unit is installed in the room. The antennas can rotate for better wireless connection.



Using extension cables for the antennas is allowed, but this can reduce the performance.

## 4.2 Table mounting

### Overview

Put the Base Unit directly on the meeting room table.

The total weight of the Base Unit is 2.2 kg.

## 4.3 Wall mounting

### About wall mounting

Use the mounting brackets, inserted in the CSE-800 box, to mount the Base unit on the wall.

### Required tools

- a drill (type of drill depends on the type of wall)
- Torx T10 screwdriver
- Additional screwdriver that matches the mounting screws (mounting screws not delivered)

### Required parts

- 2 mounting screws
- 2 plugs
- 2 Mounting brackets with fixation screws (included in the CSE-800 box)

### How to install

1. Mount both brackets to the Base unit as shown. Use for each 4 screws.

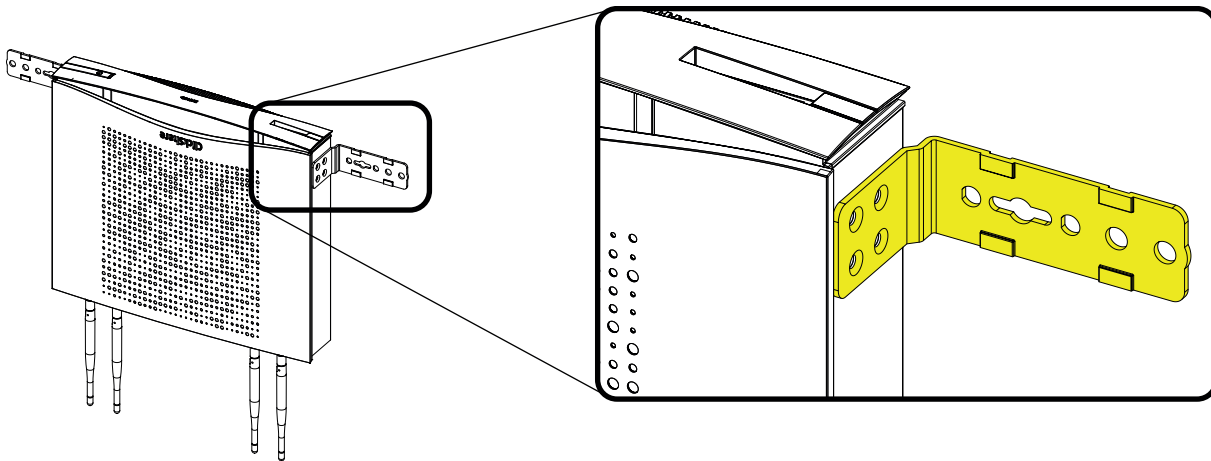


Image 4-1: Mount brackets

2. Drill 2 holes in the wall, at a distance of 370.8 mm (14.6 inch) or 464 mm (18.3 inch) from each other on a horizontal line.
3. Insert a plug in each hole (if needed, depends on the wall type).



**Note:** Mounting screws and plugs are not included in the CSE-800 box . The type of screws and plugs depend on the type of wall (stone, wood, plasterboard, ...) you are mounting the Base Unit to.

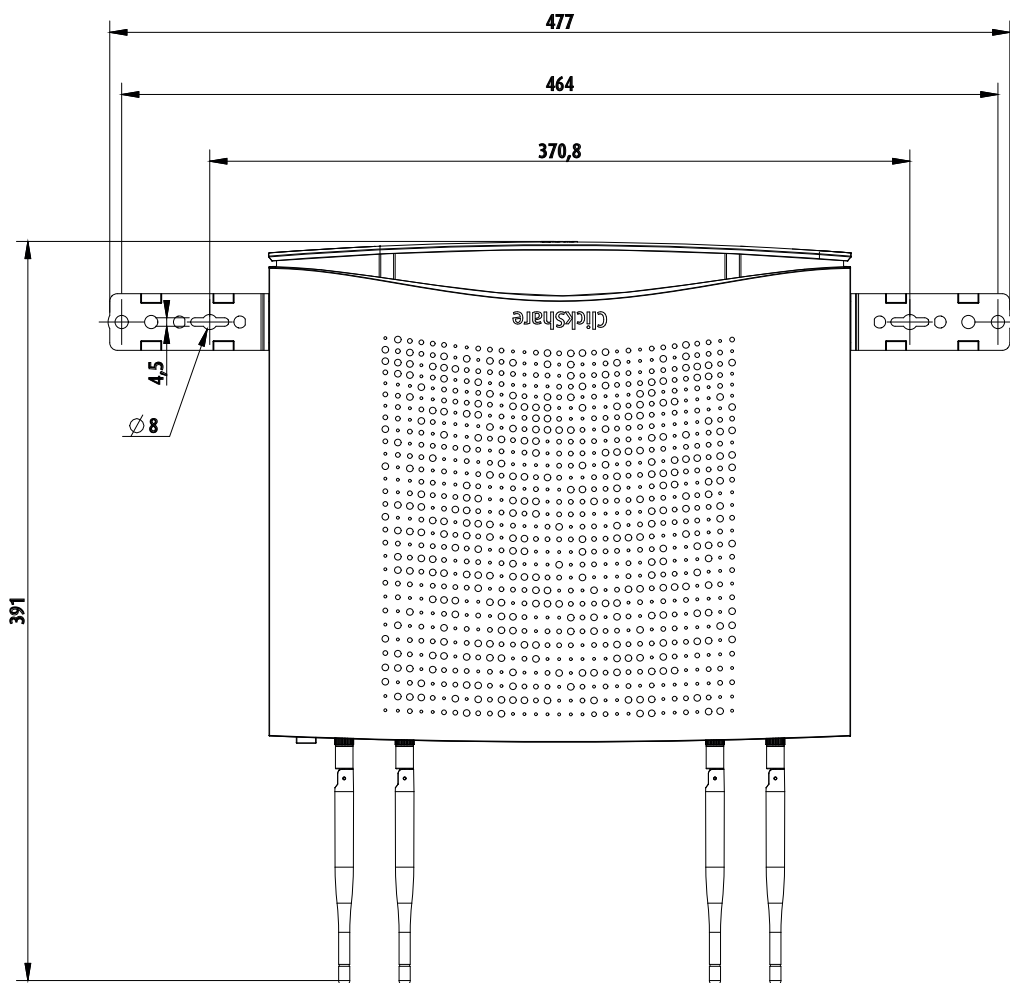


Image 4-2: Mounting hole dimensions

4. Install the Base Unit with the brackets on the wall so that the fixation holes matches the holes in the wall. Drive in 2 screws.



*Note:* Make sure the head of the screw is larger than the hole in the bracket. Otherwise, insert a washer between the screw and the bracket.

## 4.4 Ceiling mounting

### About ceiling mounting

Use the mounting brackets, inserted in the CSE-800 box, to mount the Base unit to the ceiling.

### Required tools

- a drill (type of drill depends on the type of wall)
- Torx T10 screwdriver
- Additional screwdriver that matches the mounting screws (mounting screws not delivered)

### Required parts

- 2 mounting screws
- 2 plugs
- 2 Mounting brackets with fixation screws (included in the CSE-800 box)

### How to install

1. Install in the same way as for wall mounting. See “Wall mounting”, page 38.

## 4.5 Rack mounting

### About rack mounting

For meeting rooms with a dedicated AV rack, use the included brackets to mount the CSE-800 Base Unit. This integrates the CSE-800 seamlessly into the room’s existing high-end AV installation.

Necessary free space in the rack is 2U.

### Required tools

- Torx T10 screwdriver
- Additional screwdriver that matches the mounting screws

### Required parts

- 2 mounting brackets with fixation screws (included in the CSE-800 box)
- 2 mounting brackets covers (included in the CSE-800 box)
- 2 rack mounting screws (not included)

### How to install

1. Clips the plastic cover (1) on each bracket (2).

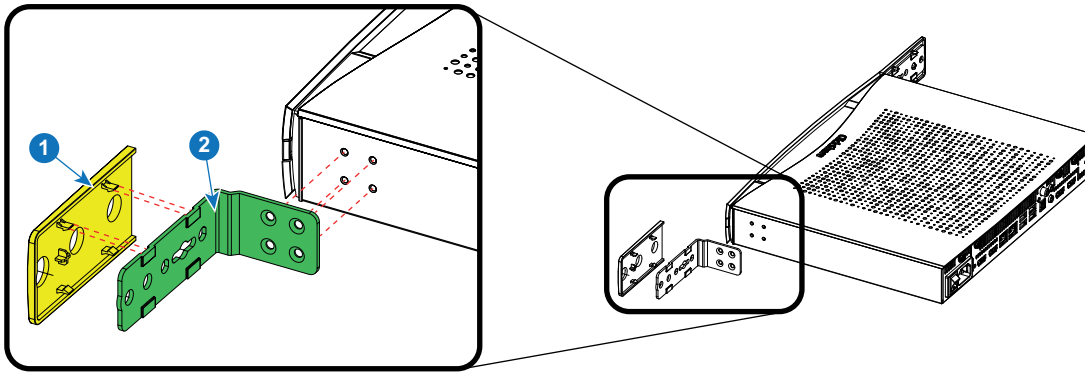


Image 4-3: Mount brackets

2. Place the bracket on fixation holes as indicated and drive in the 4 fixation screws.
3. Repeat for the other side.
4. Insert the antenna extension cables into the provided holes (3) and turn on the antennas (4).

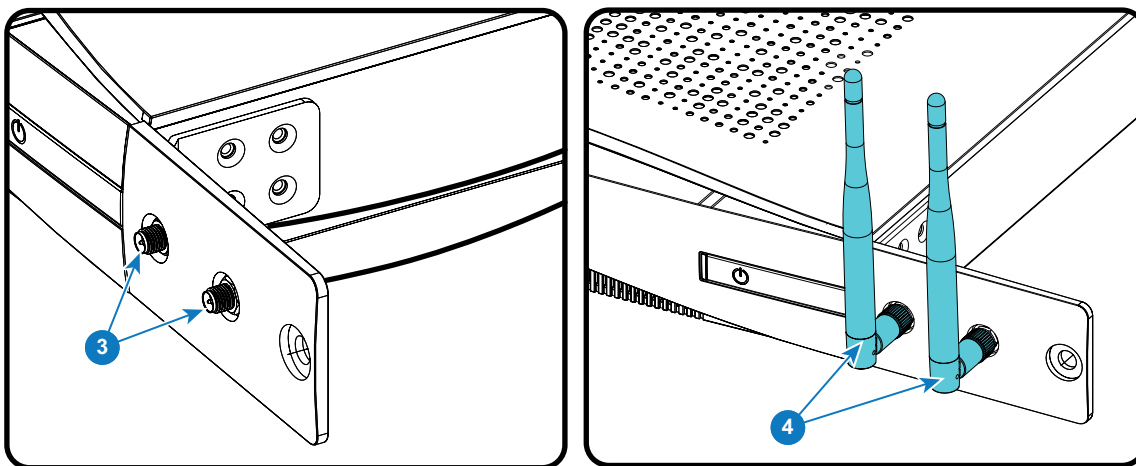


Image 4-4: Mount antennas

5. Repeat for the other side.
6. Mount the Base Unit into a rack. Use 2 mounting screws.  
Diameter of the mounting holes: 7mm.

## 4.6 Recommendations about antenna placement and orientation

### Antenna placement rules

- The antennas should be oriented vertically, so perpendicular to the ceiling and parallel to the walls.
- The antennas should be installed far enough (at least 50cm/1.6ft) from metallic surfaces to avoid unwanted reflections and far enough (at least 1m/3.3ft) from other radio equipment that operates in the same frequency range, e.g. other Wi-Fi access points, cordless telephone, microwave ovens, .... It is also best to install antennas at least 15 cm (6 inches) from concrete walls.
- The most favorable situation is a direct line of sight between antennas and Buttons. Any obstruction will cause the signal to follow a longer propagation path, which can result in performance degradation.
- Due to the particular radio pattern of the dipole antennas, the antennas should not be placed just above potential positions of ClickShare users. As a result, the advised position for the antennas is at the side of the meeting room.

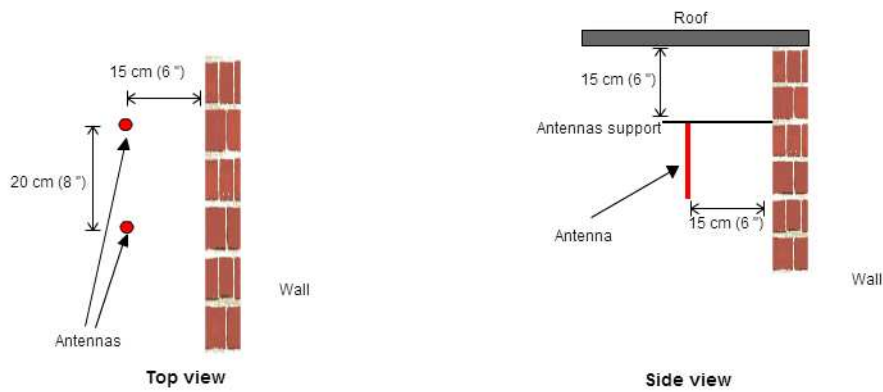


Image 4-5: Closer view of antennas installation in the meeting room

## 4.7 Video signal connections to the Base Unit



**CAUTION:** Make sure the Base Unit is installed properly before connecting.

### About Video signal connection

Depending on the local setup, a single screen or dual screen setup is possible.

For a single screen setup, HDMI connection should be made between the Base Unit and the display.

You can use any HDMI output.

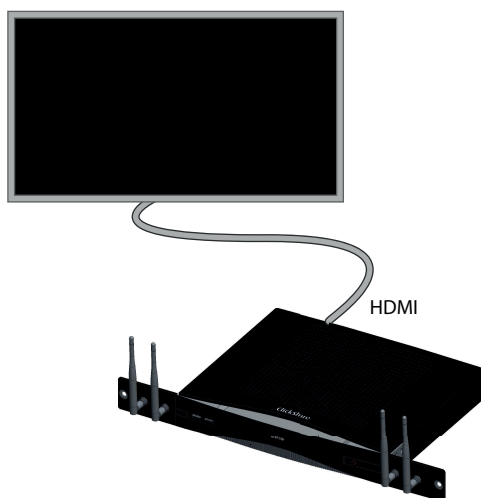


Image 4-6: One display

For a dual screen setup, 2 HDMI connections should be made between the Base Unit and the displays.

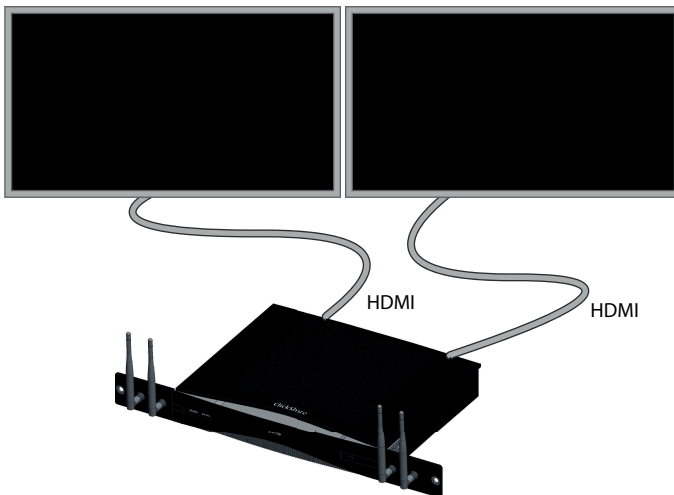


Image 4-7: Two displays

## How to connect

1. Connect the Base unit to the displays using 2 HDMI cables.



**Note:** No HDMI cables are included in the CSE-800 box at purchase.

When necessary, use an adapter piece to connect to a display port or a DVI port on the display side.



To guarantee picture quality, 4K capabilities and limit EMC exposure 360-degree bond shielding HDMI cables supporting the HDMI 2.0 specification should be used.

## 4.8 Audio connection

### About audio

The ClickShare Button captures the audio output of the user's laptop and sends it to the Base Unit together with the video signal. The audio will be output at line levels from the mini jack socket (3.5mm), TOSLINK socket, the cinch sockets and via the HDMI connectors.

It is up to the user to decide whether or not to send the audio signal together with the video signal. The user can decide this by using the same tools as he would to control the laptop's speakers or a headphone: the audio controls of the operating system (eg for Windows: Control Panel > Sounds and audio devices) or the physical buttons on the keyboard of their laptop (mute/unmute, lower volume, higher volume).

There will be synchronization between the audio and video signal.

### Audio via HDMI

When your display is connected via HDMI and it supports audio, a separate audio connection is not necessary. The audio signal is sent together with the video signal to the display.

### How to connect separate audio

1. When using the analog output via mini-jack, connect an audio cable with mini jack (3.5mm) into the analog audio output of the Base Unit.

When using the analog out via cinch, connect an audio cable with cinch connectors into the analog audio output of the Base unit.

When using the digital output, connect an fibre optical cable with TOSLINK connector into the digital audio output of the Base Unit.

2. Connect the other side to the meeting room's sound system.



Audio output needs to be selected in the Configurator, for more info, see “*Audio settings*”, page 71.

## Sound is not sent out

In some Windows environments sound is not sent out. This can be solved as follow:

1. Right click on the sound icon in the system tray and select *Playback devices*. The *Sound* window opens.
2. Select Speakers ClickShare, select *Set default* and click **Apply**.

## 4.9 LAN connection



For the moment, only the primary network connector can be used for API, Management Suite and Network Integration.

### About LAN connection

The Base Unit can be connected to a local network or directly to a laptop. For normal operation, a LAN connection is not necessary.

The LAN interface is split up in a primary interface and a secondary interface. During normal operation both LAN inputs have the same functionality. During standby, the primary interface acts as a network standby and the secondary interface is then switched off.

The LAN connection can be used:

- to configure your CSE-800 unit
- to update the software
- for maintenance purposes
- for network integration of your CSE-800 unit
- for network standby



**CAUTION:** Both LAN connections must be connected to two different networks.

### How to connect

1. Insert a network cable with RJ-45 connector into the primary (LAN1) and/or the secondary (LAN2) LAN port.
2. Connect the other side to a LAN.
3. Configure the LAN interfaces, see “*LAN Settings*”, page 77.

### Note

When the primary LAN input is configured with a manual set IP address and saved. Do not unplug the cable and plug this cable into the secondary LAN input which is DHCP enabled. This situation will lead to a conflict as the same subnet is still associated to the primary LAN input. The secondary LAN interface will go into fallback mode.

## 4.10 Power connection and switching on



**WARNING:** Use a power cord which complies to local regulations. If not included in the box, contact your local dealer for a correct power cord.

### How to connect

1. Plug the power cable in the mains power connector at the back of the Base Unit



*Note:* The local variant of the power cable is included in the CSE-800 box.

European version	Type C and type G
Japanese version	Type A
Chinese version	Type I CCC
North American version	Type A

2. To power on the unit, set the rocker switch to “1”.

If the Base unit does not start up automatically, use the standby button.

The standby button at the front can now fully control the unit.

The standby button has the following functions:

- When the system is awake, a short push triggers the system to go into standby mode.
- When the system is in standby mode, a short push triggers the system to wake up.



# Preparing the buttons

# 5

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## 5.1 Pairing

### Pairing of the Buttons with the Base Unit

To be able to use a Button it should be assigned to the Base Unit you are using. This process is called pairing. By default, the Button(s) delivered with the Base Unit are already paired to that specific Base Unit.

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



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

Pairing a Button can be done in two ways:

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

### To pair a Button to the Base unit by plugging in

1. Insert the Button in one of the USB port available on the Base Unit you are using (image is only given as example, all USB connectors can be used).



*Note:* For some ports or Buttons, it can be necessary to use a convertor.

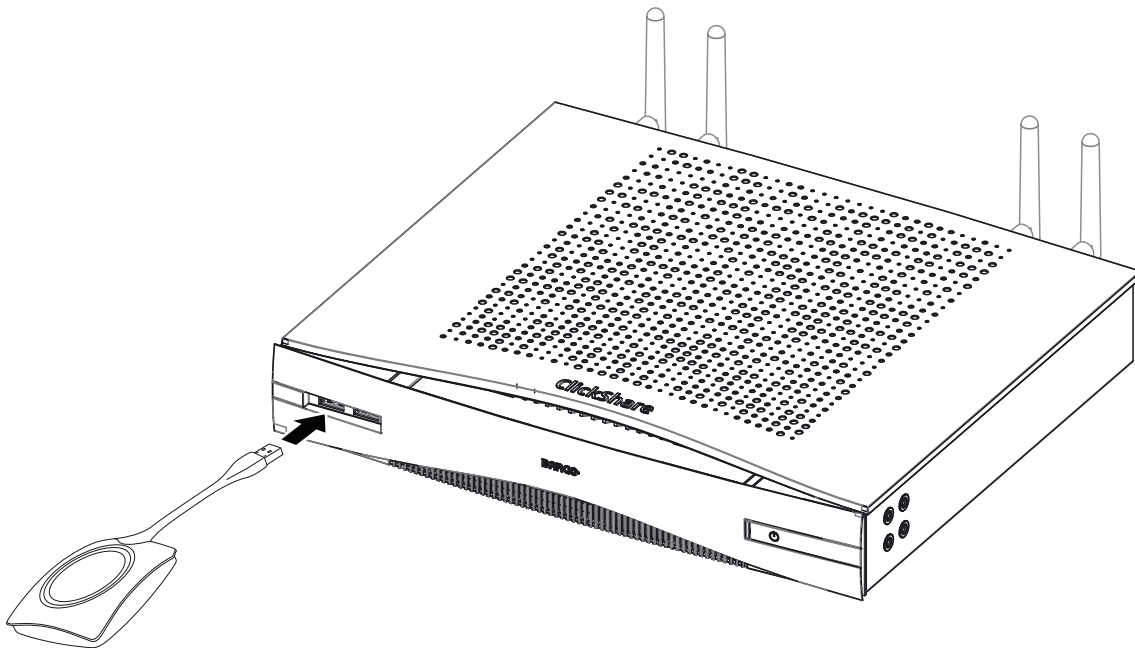


Image 5-1: Pair button

Both the LEDs of the Button and the LEDs of the Base Unit are blinking white. This means pairing is in progress.

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

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

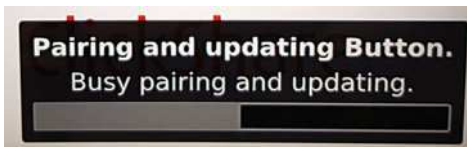


Image 5-2: Pairing message

The result of the pairing process can be as follows:

- When the LEDs become static white, the Button is paired to the Base Unit, but no software update was needed. You can unplug the Button from the Base Unit.
- When the LEDs become static red, the Button is paired to the Base Unit and the software update has finished. You can unplug the Button from the Base Unit.

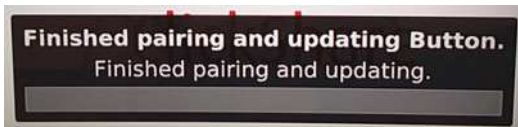


Image 5-3: Pairing finished

2. Unplug the Button from the Base Unit.

The Button is now ready for use.

### To pair a Button to the Base Unit using the Button Manager

Via the Button Manager client application running on your laptop, up to 4 Buttons can be paired simultaneously to a Base Unit without plugging the Buttons to the Base Unit. The Buttons are plugged in to your laptop. For more information about the Button Manager, consult the Button Manager's user guide which can be downloaded from Barco's website.

## 5.2 ClickShare Extension Pack

### About

The ClickShare Extension Pack is a collection of tools to upgrade your ClickShare user experience. This Extension Pack contains the ClickShare Launcher service and a driver to enable the Extended Desktop functionality. Both tools will be installed by default. To change the default behavior of the installer, the installer will need to be executed with command line parameters.

The ClickShare Extension Pack can be installed by the end user manually, pre-installed on your company's laptop image or deployed company-wide with SCCM or other tools.

The ClickShare Extension Pack can be used in combination with a Button and/or with the ClickShare desktop app.

The latest extension pack can be downloaded via <http://www.barco.com/en/product/clickshare-extension-pack>

## 5.3 ClickShare Extension Pack installer

### Interactive setup

In this setup, the user runs the installer which will install the ClickShare Extension Pack on his computer after the user accepts the EULA.

After the setup finished, the ClickShare launcher will be started automatically. The Extended desktop driver can only be used after the user reboots his computer.

### Starting the setup

1. Download the ClickShare Extension Pack (download via <http://www.barco.com/en/product/clickshare-extension-pack>).
2. Unzip the downloaded file.

3. Click *ClickShare-Extension-Pack.msi* to start the installation.

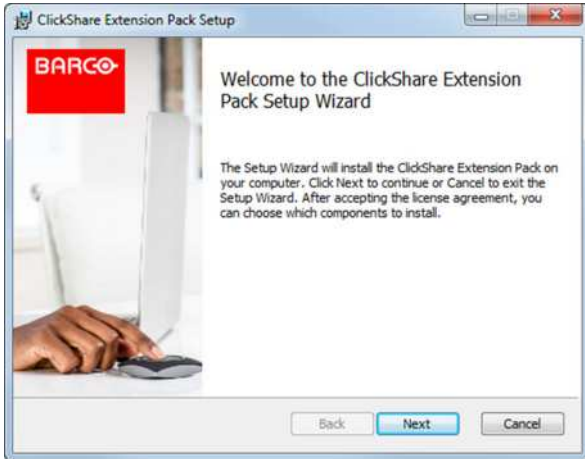


Image 5-4

4. Click **Next**, accept the License Agreement and click **Next** to continue.

If necessary, follow the on screen instructions.

## Silent setup

In this setup, a user or an IT admin can install the ClickShare Extension pack using the Windows command prompt. Following is an example of a silent installation (version numbers are only given as example, always check Barco's web for the latest version):

Launcher only install:

```
msiexec. exe /i ClickShare-Extension-Pack-01.00.02.0003. msi ACCEPT_EULA=YES
INSTALLFOLDER=C:\ LAUNCH_APP=YES /qn
```

Extended desktop only install :

```
msiexec. exe /i ClickShare-Extension-Pack-01.00.02.0003. msi ACCEPT_EULA=YES
ADDLOCAL=ExtendedDesktopDriverFeature INSTALLFOLDER=C:\ LAUNCH_APP=YES /qn
```

Full install (launcher + extended desktop):

```
msiexec. exe /i ClickShare-Extension-Pack-01.00.02.0003. msi ACCEPT_EULA=YES
ADDLOCAL=ALL INSTALLFOLDER=C:\ LAUNCH_APP=YES /qn
```



The computer will reboot. This can be suppressed with /norestart. A reboot will be needed afterwards for the extended desktop feature to be working. In case the end-user should decide if they want to reboot, /promptrestart /QB!+ can be used (basic UI, no cancel option, but prompt to reboot)

## Parameter Description

ACCEPT_EULA	This parameter shows that the installer accepts the EULA text as is. This parameters must be set to YES in order to continue to the installation.
INSTALLFOLDER	This parameter specifies the installation directory for ClickShare launcher. If not specified, the default folder will be the Program Files folder.
LAUNCH_APP	The ClickShare launcher application will be started right after the installation finishes if this parameter is set to YES. Otherwise, the launcher application will not be started.
/qn	This parameter indicates that the installation will be done in silent mode, meaning that there will be no visible windows during the installation.
ADDLOCAL	This parameter indicated the type of the installation. No parameter added, installs only the launcher.

## Windows environment variable

The variable to be used is CLICKSHARE\_LAUNCHER\_CLIENT\_PATH. The value should be the path to the client software.



# CSE-800 Configurator

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Within some menus the *Configurator* is indicated as *WebUI*. E.g. WebUI password, that is the password to enter the Configurator.

## 6.1 Accessing the Configurator

### Getting access to the Configurator

There are three ways to access the Configurator:


- Via the LAN
- Direct Ethernet connection between PC and Base Unit.
- Via the Base Unit's wireless network

When accessing the configurator for the first time, the ClickShare Configuration Wizard starts automatically.


This configuration wizard can be started at any moment to change your configuration instead of using the menus.

### To access the Configurator via the LAN

1. Open a browser.

 **Note:** Supported browsers are Internet Explorer 10 or higher, Firefox, Google Chrome and Safari.

2. Browse to the IP address you can find in the bottom left corner of the startup screen.

 **Note:** The Wired IP address is only visible when the Base Unit is connected to the LAN.

A login screen appears.

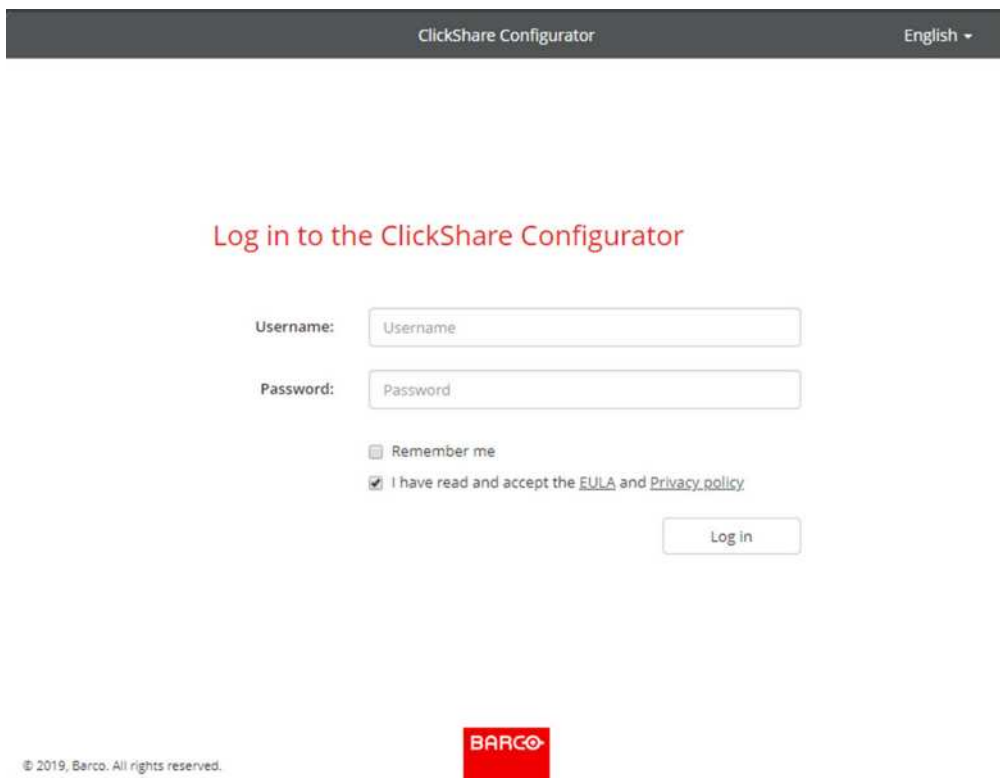


Image 6-1: Login screen

3. To change the language of the Configurator, click on the drop down next to the current selected language and select the desired language.



Image 6-2: Configurator languages

The following languages are possible:

- Arabic
- Simplified Chinese
- Traditional Chinese
- Danish
- Dutch
- English
- Finnish
- French
- German
- Italian
- Japanese
- Korean
- Norwegian
- Portuguese
- Russian
- Spanish
- Swedish

The Configurator language changes to the selected language.

4. Enter the user name 'admin' and the password, read and accept the EULA and click **OK**.

By default, the password is set to 'admin'.

**Warning:** It is strongly recommended to change the default password into a strong password on first use, to prevent that anyone else accessing the configurator can change the settings of the ClickShare Base Unit. See "Security, passwords", page 88.

The configurator opens.

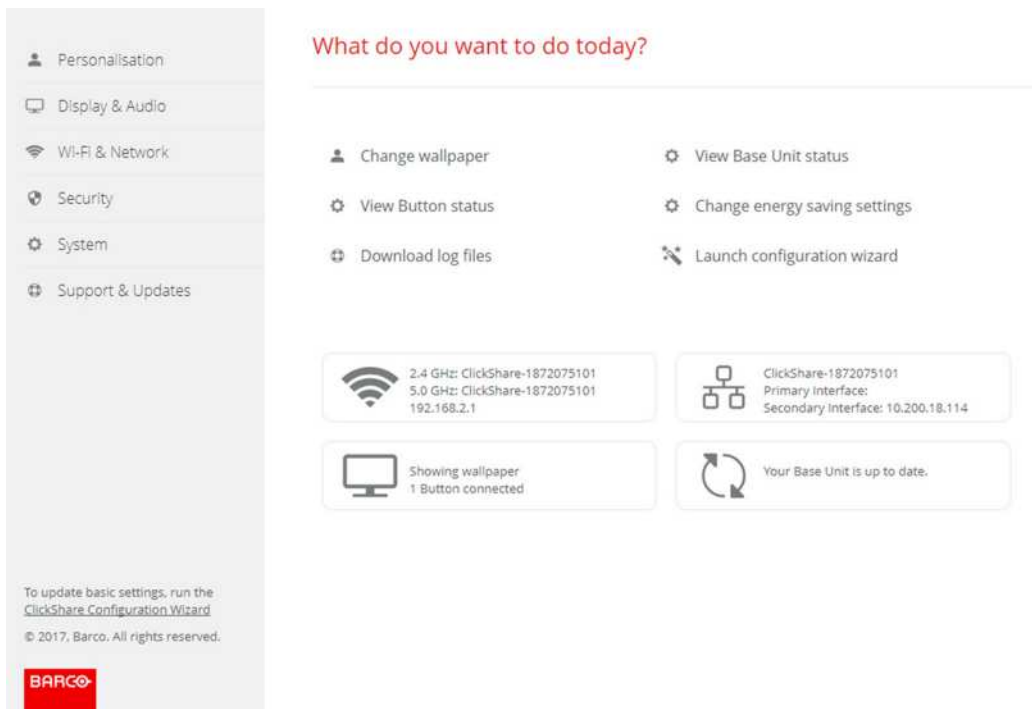


Image 6-3: Start screen

The language of the configurator can be changed on any page in the interface.

The screen is split up in 2 panes. Left pane with the selection buttons and a right pane to configure the selected function.


The startup screen itself shows:

- the wired IP address of the primary and secondary interface
- the wireless IP address
- the wireless SSID for both frequencies
- the number of Buttons connected
- the system state



If you cannot find the IP address (e.g. there is no screen available) you should connect to the Base Unit directly with your laptop via an Ethernet crossover cable and access the web interface using the fixed IP address 192.168.0.23. Make sure your own LAN adapter is set in the 192.168.0.x range.

### To access the Configurator via a direct connection.

1. Connect the Base Unit to your laptop using an Ethernet cable.
2. On your laptop, open a browser.
  -  **Note:** Supported browsers are Internet Explorer, Firefox and Safari.
3. Browse to <http://192.168.0.23>.  
A login screen appears.
4. Enter the user name 'admin' and the password, read and accept the EULA and click **OK**.  
By default the password is set to 'admin'.  
The configurator opens.

### To access the Configurator via the Base Unit wireless network

1. On your laptop, connect to the Base Unit wireless network.

The default SSID and password to connect to the Base Unit are respectively 'ClickShare-<serial base number>' and 'clickshare'.

2. On your laptop, open a browser.



**Note:** Supported browsers are Internet Explorer, Firefox and Safari.

3. Browse to <http://192.168.2.1>.

A login screen appears.

4. Enter the user name 'admin' and the password, read and accept the EULA and click **OK**.

By default the password is set to 'admin'.

The web interface opens.



Older laptops might not support the 5 GHz Frequency Band. If your Base Unit is set to that frequency range, those devices will not be able to connect to the Base Unit via the wireless network.

## 6.2 ClickShare Configuration Wizard

### About the configuration wizard

During the first start up of the Base Unit, the configuration wizard starts up automatically.

All basic settings necessary to configure the Base Unit are covered by the configuration wizard. Once the configuration wizard is finished, the Base Unit is ready to be used.

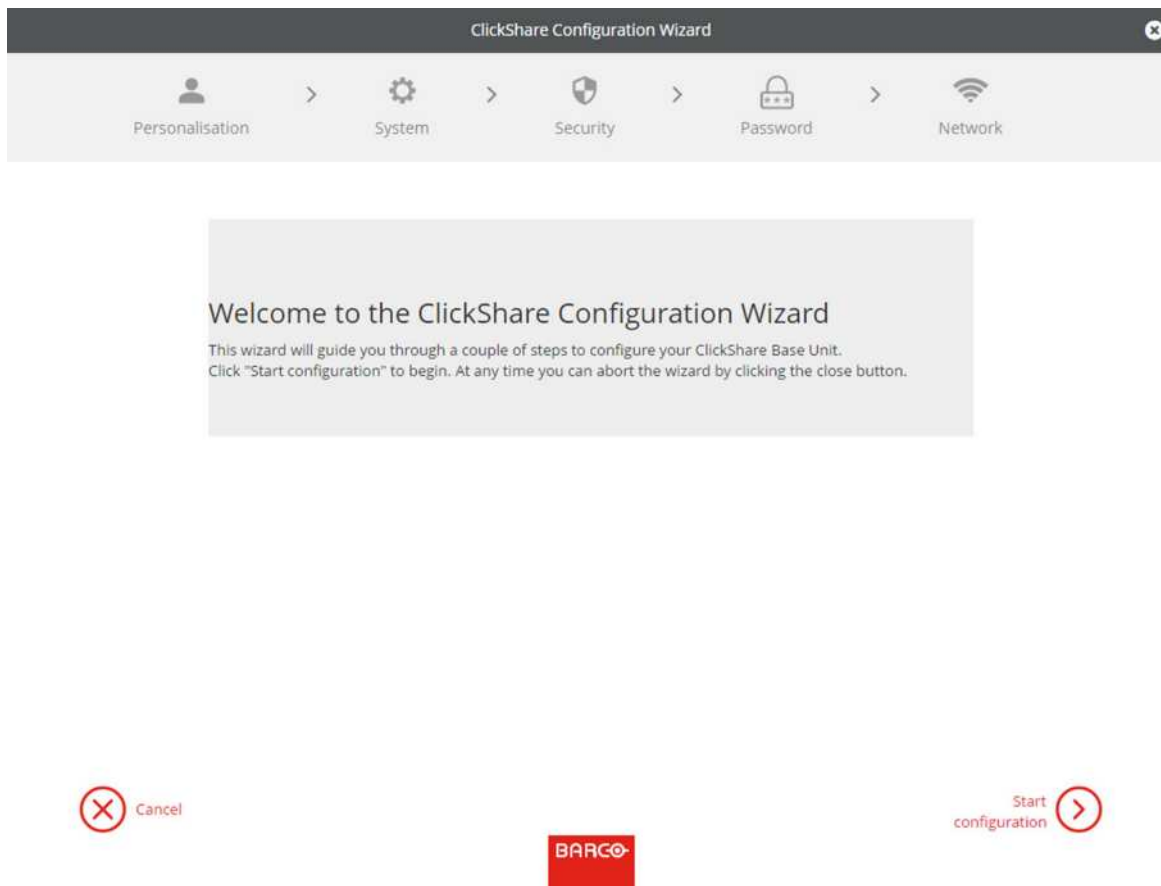


Image 6-4: Configuration wizard

To start the wizard, click on **Start Configuration**.

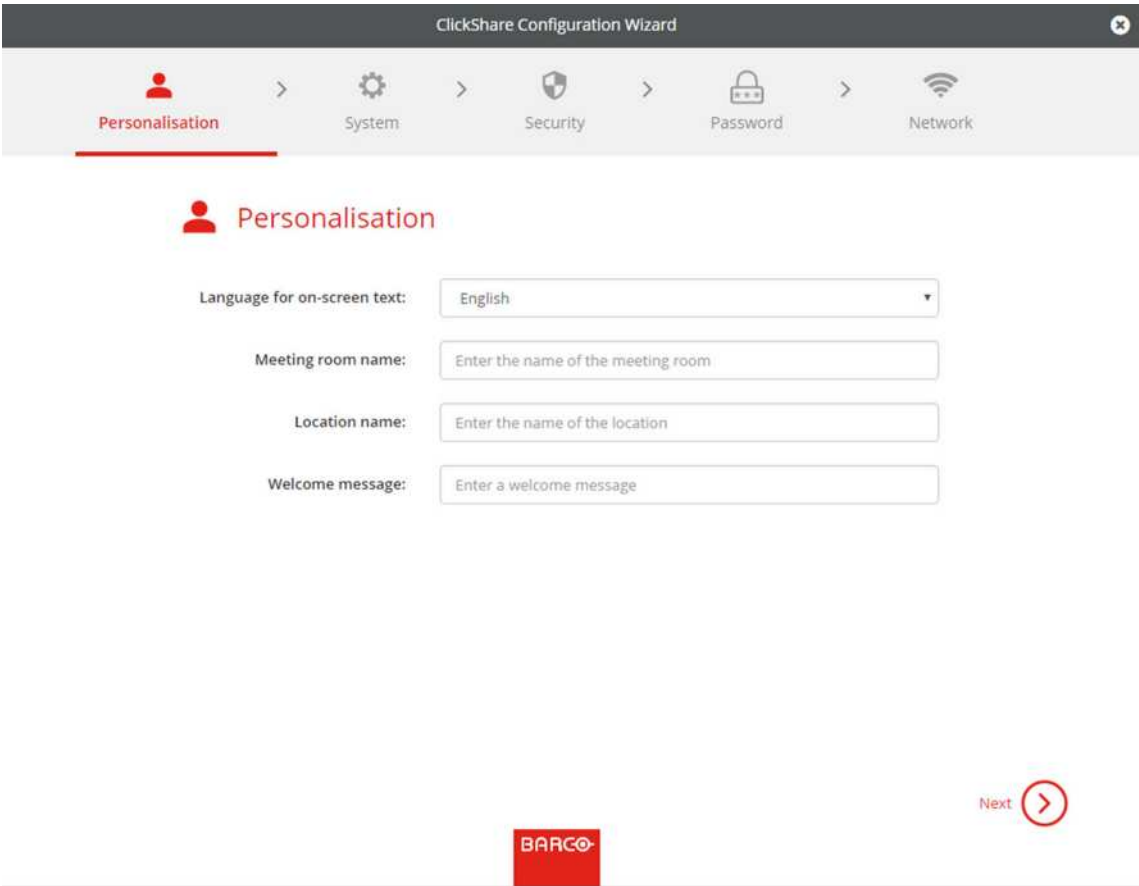


Image 6-5: Configuration wizard, Personalisation

Fill out the necessary field and click **Next** to continue.

To return to the previous step, click on **Back**.

For more information about a specific topic, see one of the following topics.

The ClickShare Configuration Wizard can be started at any time to change the configuration just by clicking on **ClickShare Configuration Wizard** at the left bottom of each screen.

Personalisation	Language on-screen text	See “”, .
	Meeting room name, location name and welcome message	See “”, .
System	Time zone, manual time setup	See “Date & Time setup, manually”, page 92.
	Use NTP	See “Date & Time setup, time server”, page 94.
Security	Level settings	See “Security, security level”, page 87.
Password	ClickShare Configurator (WebUI) password	See “Security, passwords”, page 88.
Network	Frequency band, channel Wi-Fi passphrase	See “WiFi settings”, page 73.

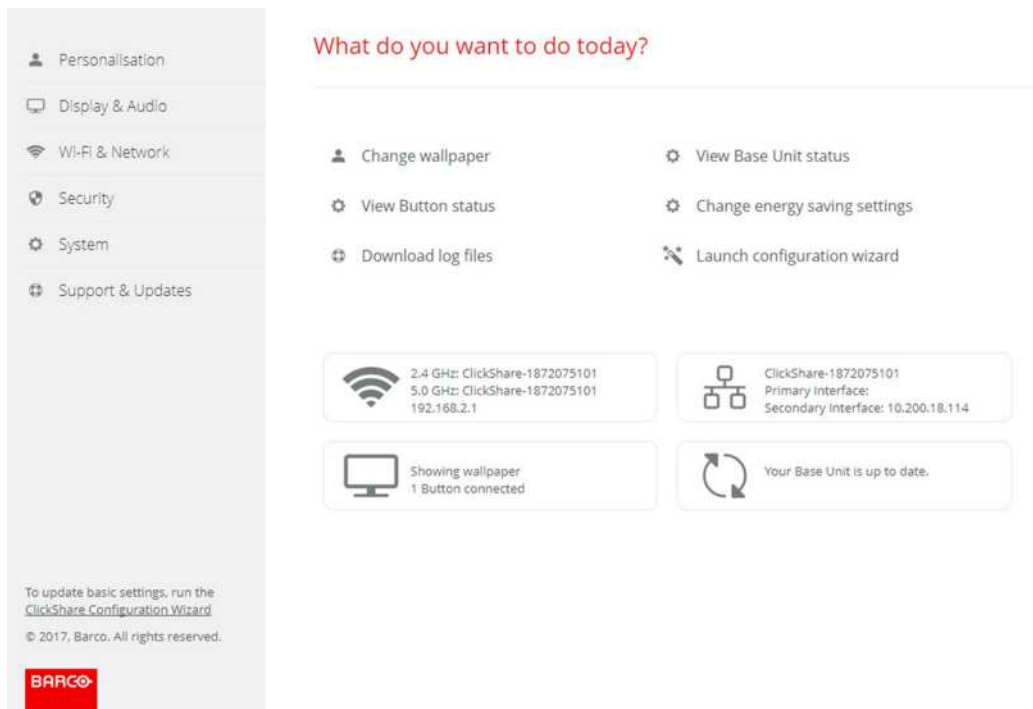


Image 6-6: Configuration Wizard start

## 6.3 On-Screen Language and Text Size

### About the on-screen language.

The on-screen language can be set independent of the configurator language. The on-screen text size can be changed between small, medium or large.

### Language selection

1. Log in to the *Configurator*
2. Click *Personalisation* → *On-Screen ID*.

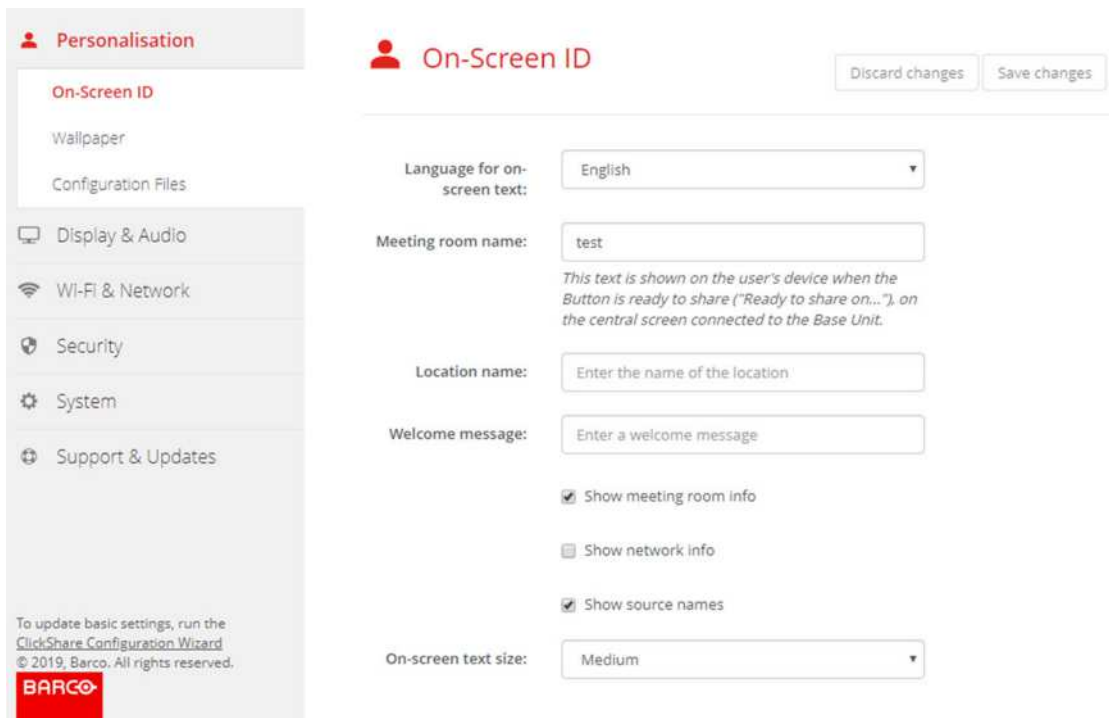


Image 6-7: Personalisation, On-Screen ID

3. Select the language of the on-screen text. Click on the drop down box next to *Language for on-screen text* and select the desired language.

The following languages are possible:

- Arabic
- Simplified Chinese
- Traditional Chinese
- Danish
- Dutch
- English
- Finnish
- French
- German
- Italian
- Japanese
- Korean
- Norwegian
- Portuguese
- Russian
- Spanish
- Swedish

### Text size

1. Log in to the *Configurator*
2. Click *Personalisation* → *On-Screen ID*.
3. Click on the drop down box next to *On-screen text size* and select the desired font size.

The following sizes are possible:

- Small
- Medium
- Large

## 6.4 Meeting room information

### About meeting room settings

The following settings are possible:

- Meeting room name
- Meeting room location
- Welcome message on the ClickShare screen
- Show meeting room info
- Show network info
- Show source names

**Personalisation**

**On-Screen ID**

Wallpaper

Configuration Files

Display & Audio

Wi-Fi & Network

Security

System

Support & Updates

To update basic settings, run the [ClickShare Configuration Wizard](#)  
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**On-Screen ID** [Discard changes] [Save changes]

Language for on-screen text: English

Meeting room name: test

*This text is shown on the user's device when the Button is ready to share ("Ready to share on..."), on the central screen connected to the Base Unit.*

Location name: Enter the name of the location

Welcome message: Enter a welcome message

☒ Show meeting room info

☐ Show network info

☒ Show source names

On-screen text size: Medium

Image 6-8: Personalisation, On-Screen ID

### Meeting room name, location and welcome message

1. Log in to the Configurator.
2. Click *Personalisation* → *On-screen ID*.
3. Click in the input field next to *Meeting room name* and enter a name for the meeting room.

This text is shown on the user's device when the Button is ready to share ("Ready to share on..."), on the central screen connected to the Base Unit and in the list of AirPlay receivers on the user's iOS device.

4. Click in the input field next to *Location name* and enter the location.
5. Click in the input field next to *Welcome message* and enter the desired message.

### Show on-screen information

1. Log in to the Configurator.
2. Click *Personalisation* → *On-screen ID*.
3. Check the check box in front of *Show meeting room info*.

Checked: meeting room name, location and welcome message are displayed on-screen when nothing is shared.

Not checked: nothing is shown on-screen.

4. Check the check box in front of *Show network info*.

Checked: LAN information such as wired IP address, hostname are displayed. Also the Wi-Fi IP address and SSID are displayed.

Not checked: no LAN nor Wi-Fi information is displayed.

5. Check the check box in front of *Show source names*.

Checked: the source name of the shared content is displayed on the screen.

Not checked: no source info displayed on the screen.

## 6.5 Personalisation, wallpaper

### About wallpaper

When CSE-800 starts up, a background (wallpaper) is displayed. The display of this background wallpaper can be disabled.

By default a general ClickShare and a quick start wallpaper are available. The possibility exists to upload personal backgrounds (wallpapers). The default wallpapers cannot be removed from the system.

### Wallpaper selection

1. Log in to the Configurator
2. Click *Personalisation* → *Wallpaper*.

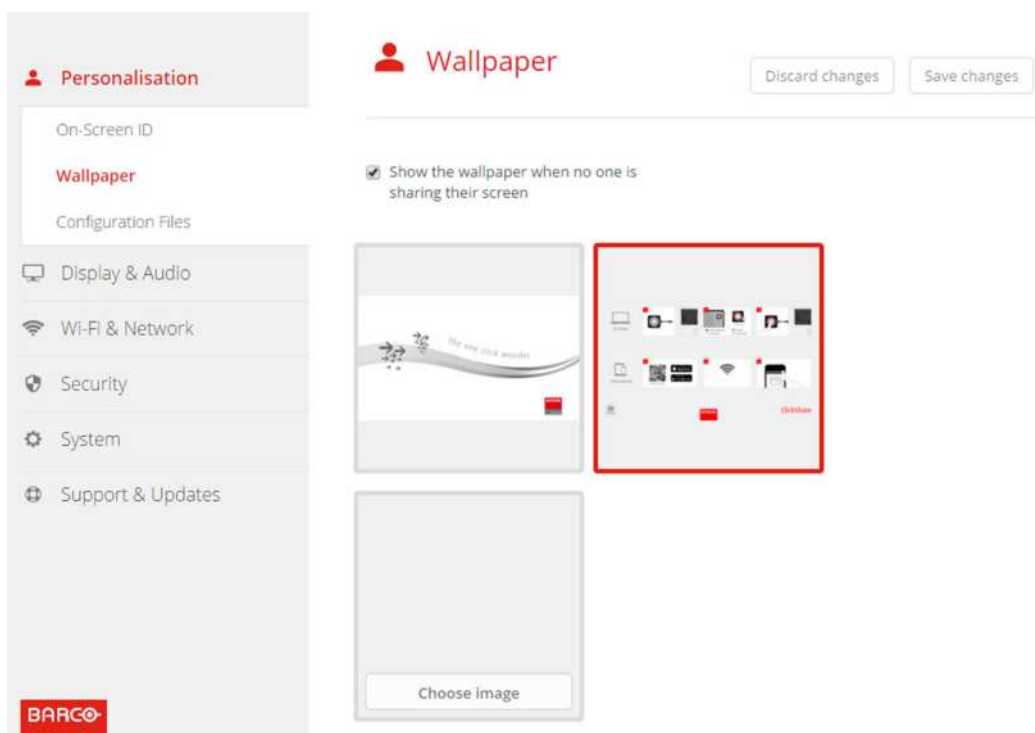


Image 6-9: Wallpaper selection

The *Wallpaper* selection pane is shown. The current selected wallpaper is shown with a red border.

3. Select one of the available wallpapers and click on **Save Changes**.



**Note:** By default a general Barco CSE-800 wallpaper and a CSE-800 Quick Start Guide wallpapers are available.

They are automatically resized to fit the aspect ratio of the screen.

The selected wallpaper is indicated with a red border.

The message **Successfully applied changes** appears on top of the wallpaper selection window.



You can also add a personal wallpaper, e.g. your company logo. For more information on adding a new wallpaper to the list, see “*Personalisation, Personalized wallpaper*”, page 64.

## Download wallpaper

1. Hover with your mouse over the wallpaper to download and click on the download symbol on the upper right corner.



Image 6-10: Download wallpaper

The wallpaper is downloaded to your PC.

## Enable - disable Wallpaper

1. Within the Wallpaper pane, check the check box next to *Show the wallpaper when no one is sharing their screen*.

Checked: wallpaper will be displayed when no one is sharing content.

Not checked: no wallpaper will be displayed when no one is sharing content. The video output of the Base Unit is disabled when no content is shared. This feature is especially useful when the Base Unit is integrated in a larger AK system

# 6.6 Personalisation, Personalized wallpaper

## About a personalized wallpaper

Via the Configurator it is possible to upload personalized backgrounds or wallpapers.

The upload file should be a JPEG, PNG, BMP or TIFF format with a maximum size of 2.5MB.

Maximum one custom wallpaper can be uploaded. To upload another, the first uploaded will be overwritten.

## How to upload

1. Log in to the Configurator
2. Click *Personalisation* → *Wallpaper*.  
The *Wallpaper* selection pane is shown. The current selected wallpaper is shown with a red border.
3. Hoover your mouse over the free place and click on **Choose image**.

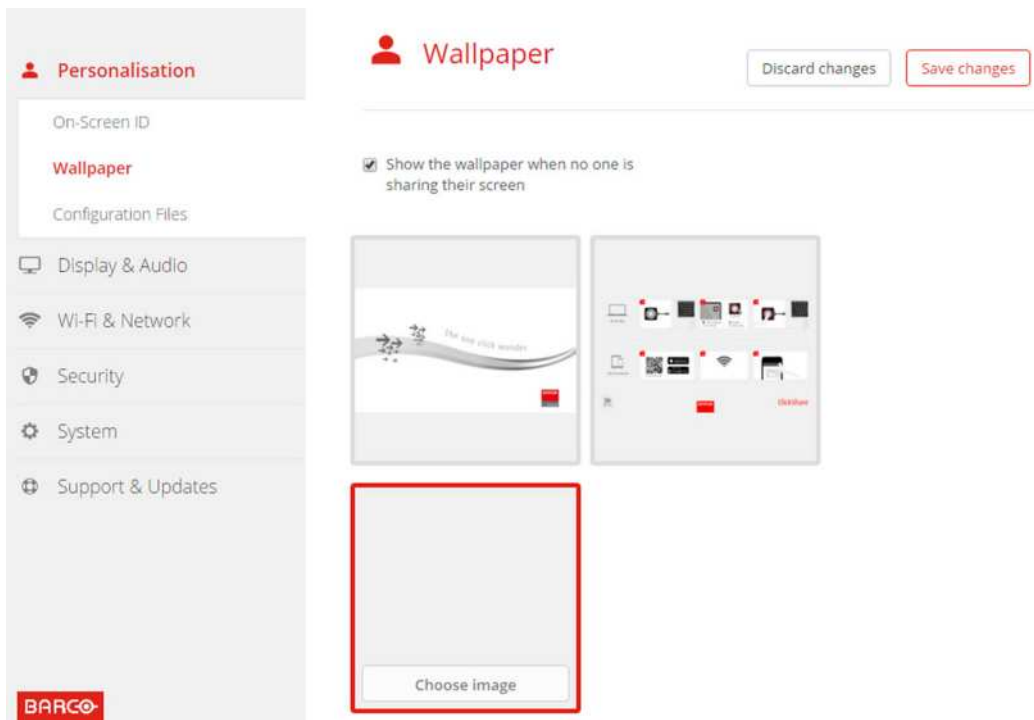


Image 6-11: Personalized wallpaper selection

A browser window opens.

4. Browse for the desired image, click Open to load the image.

The content of the file is checked and when valid (format and size), the file is uploaded. The new wallpaper gets a red border.

5. Click on **Save changes** to apply the personalized wallpaper

The message **Successfully applied changes** is displayed on top of the page.

### Change personalized image

1. Click *Personalisation* → *Wallpaper*.
2. Hover your mouse over the current personalized image and click **Change image**.

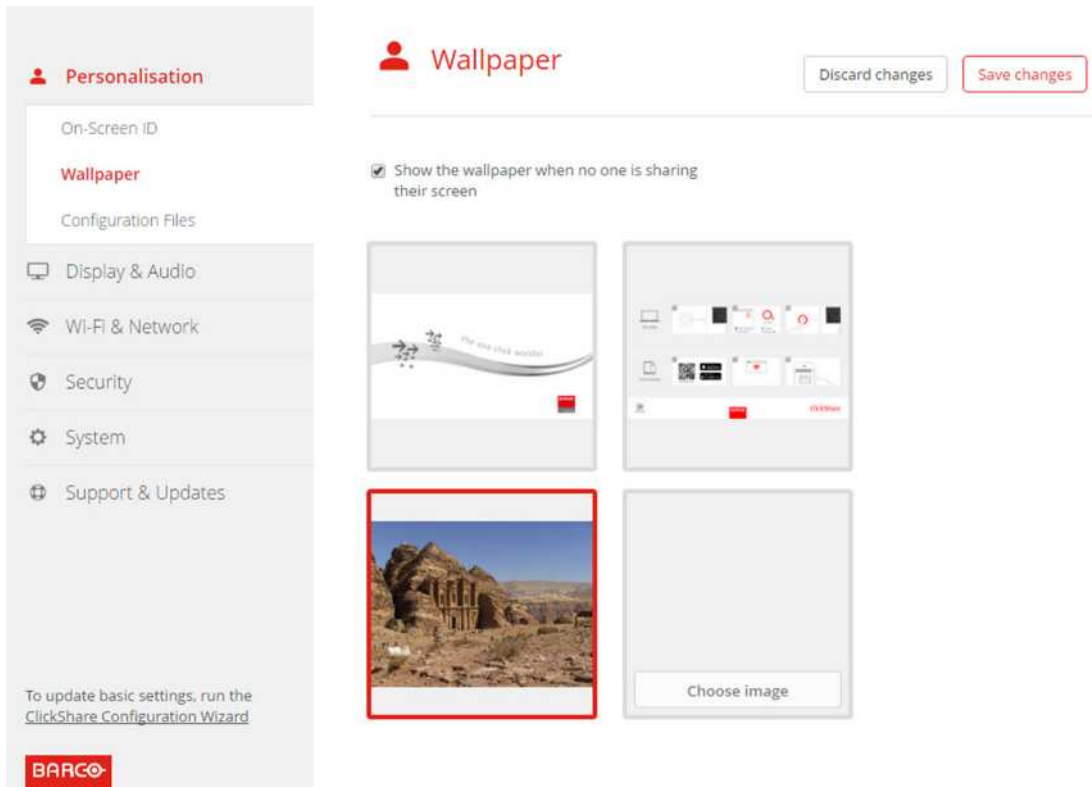


Image 6-12: Change image

3. Browse for the desired image, click Open to load the image.  
The content of the file is checked and when valid (format and size), the file is uploaded. The new wallpaper gets a red border.
4. Click on **Save changes** to apply the personalized wallpaper and replace the previous file.  
The message **Successfully applied changes** is displayed on top of the page.

### Remove personalized wallpaper

1. Hover your mouse over the current image and click on the trash bin to remove the image.



Image 6-13: Remove wallpaper

The personalized wallpaper is removed and the default wall paper is activated.

## 6.7 Manage configuration files

### About Manage configuration files

A full backup can be downloaded but cannot be used to duplicate configuration settings to other Base units. Therefore, it is possible to download a Portable version. This portable version can be uploaded via the upload

configuration button on other Base units (same type). Via the same button, the full backup can be uploaded on the original Base Unit.

A portable backup contains:

- Wallpapers
- Wallpapers settings
- Logging settings
- All display settings
- OSD language
- Location
- Welcome message
- WiFi channel
- WiFi frequency

## To manage the configuration files

1. Log in to the *Configurator*.
2. Click *Personalisation* → *Configuration Files*.

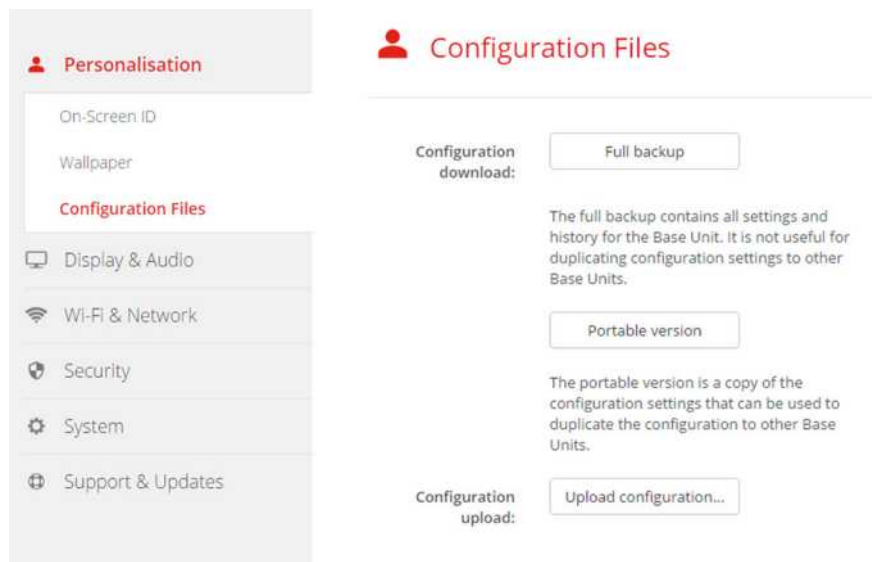


Image 6-14: Configuration files

3. To download a full backup, click on **Full Backup**.

An xml file, containing all information and history will be downloaded. This file can be reused on the same Base Unit only.

4. To download a portable version, click on **Portable Version**.

An xml file, containing portable information to duplicate settings on another Base Unit.

5. To upload a configuration, click on **Upload Configuration**.

A browser window opens. Navigate to the upload file (xml file) and click **Open** to upload.

A full backup can be uploaded on the Base Unit where the backup was created and a portable version can be uploaded on any other Base Unit of the same model.



When uploading a config file, the history of software updates and paired Buttons is lost. Paired buttons will however remain functional if the Base Unit has not changed from SSID or wireless password.

## 6.8 Display setup, Output

### Resolution

The output resolution to the display is set on Auto. That means that the CSE-800 output resolution is automatically adapted to the resolution of the display. For HDMI displays, a hot plug detection is available.

### HDMI hot plug display detection

The HDMI hot plug display detection can be enabled by checking the check box before *HDMI Hot-Plug display detection*.

### CEC

Consumer Electronics Control (CEC) is a feature of HDMI designed to allow users to command and control devices connected through HDMI by using only one remote control.

To enable CEC, check the check box before *Enable CEC*.

### Screen saver setup

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Outputs*.

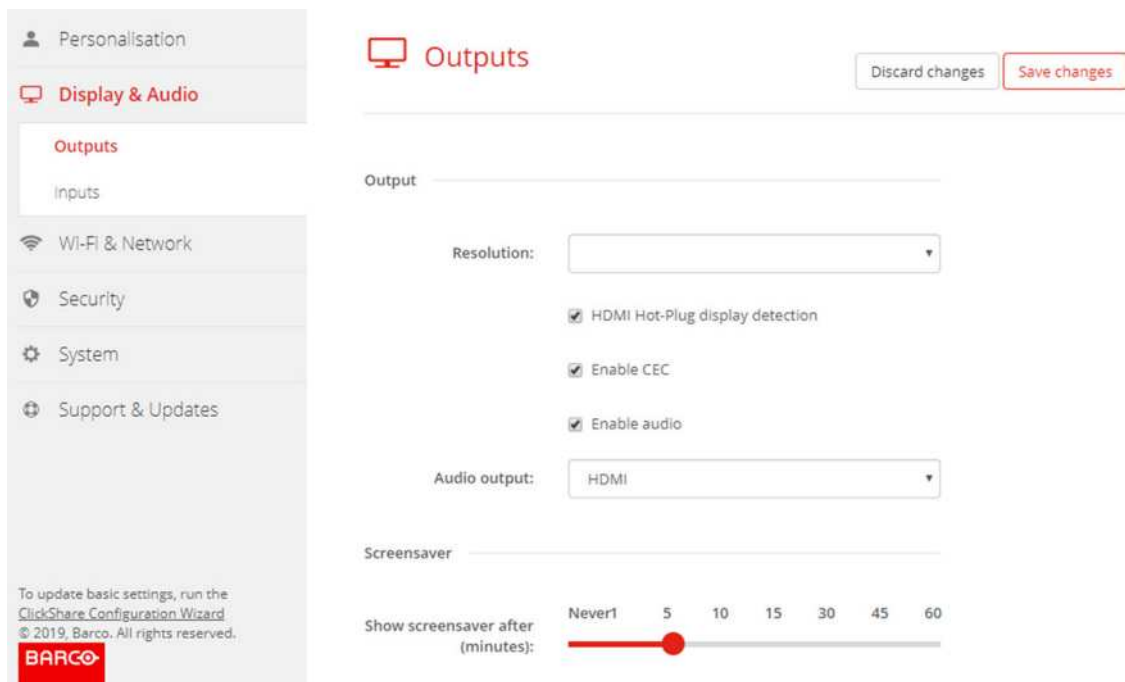


Image 6-15: Display settings

3. To activate the screen saver, drag the slider bar to the left or to the right until the desired delay time is reached. When the slider is set completely to the left, the screen saver will never be activated.

## 6.9 Display setup, output

### Resolution

The output resolution to the display can be set to Auto or a predefined pixel aspect ratio. When set to Auto, the output resolution is automatically adapted to the resolution of the display.

## ClickShare Position

The content of HDMI1 on display 2 and the content of HDMI2 on display 1 can be switched. This can be handy when the displays are mounted in a different order.

### How to enable an output

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Outputs*.

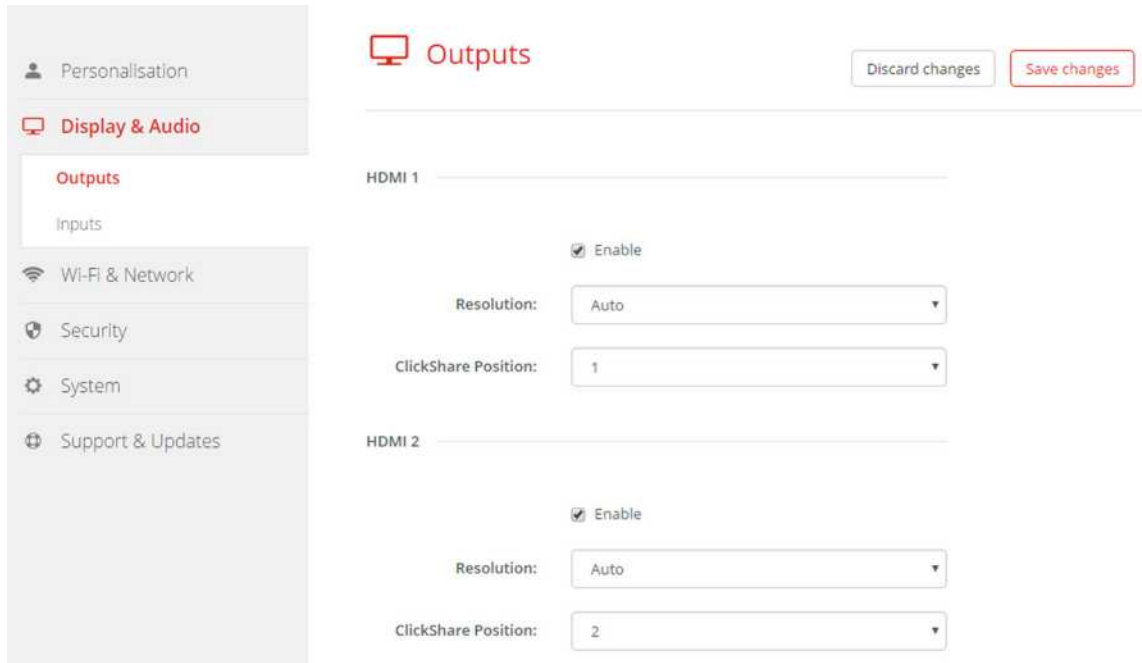


Image 6-16: Display outputs

3. Check the check box in front of *Enable* to enable the output.  
Checked: output enabled.  
Not checked: output blocked

### How to set up

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Outputs*.
3. Click on the drop down box next to Resolution and select the desired resolution.  
When Auto is selected, the output resolution is automatically adapted to the resolution of the display.
4. To change the ClickShare position, click on the drop down box next to *ClickShare Resolution*.  
The position can be set to 1 or 2.

Default value,

for HDMI1, ClickShare position is set to 1, the content will be displayed on display 1

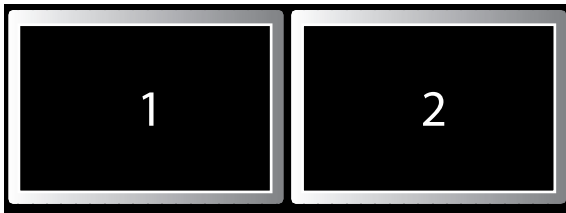
for HDMI2, ClickShare position is set to 2, the content will be displayed on display 2

By changing the ClickShare position it is possible to show the content of HDMI1 on display 2 and the content of HDMI2 on display 1. This can be handy when the displays are mounted in a different order.

5. Click on **Save changes** to apply the new settings.

## About Display mode

### Extended mode

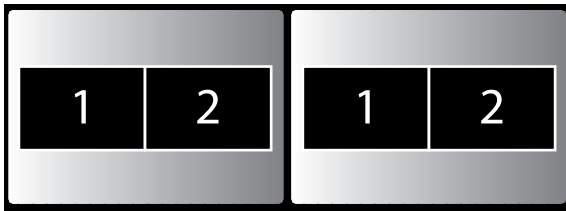


2 users

Image 6-17

The content of multiple users will be divided over both screen.

### Clone mode



2 users

Image 6-18

The content of multiple users will be shown on one screen. The content of that first screen will be duplicated on the second screen.

### Span mode

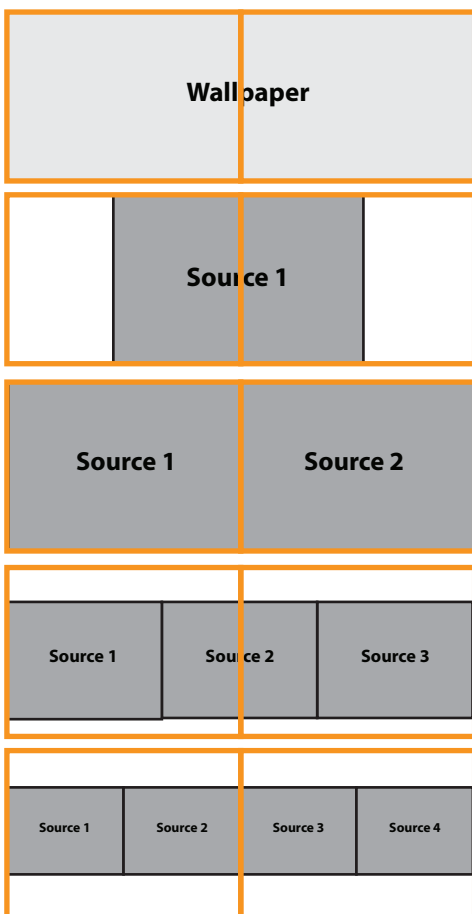


Image 6-19

When your device is setup in span mode and connected to 2 displays, the different sources (users) will be seen as indicated on the drawing.

The maximum number of sources (users) simultaneously displayed on both screens is 4. These sources (users) will be displayed in one row.

## Display mode selection

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Outputs*.

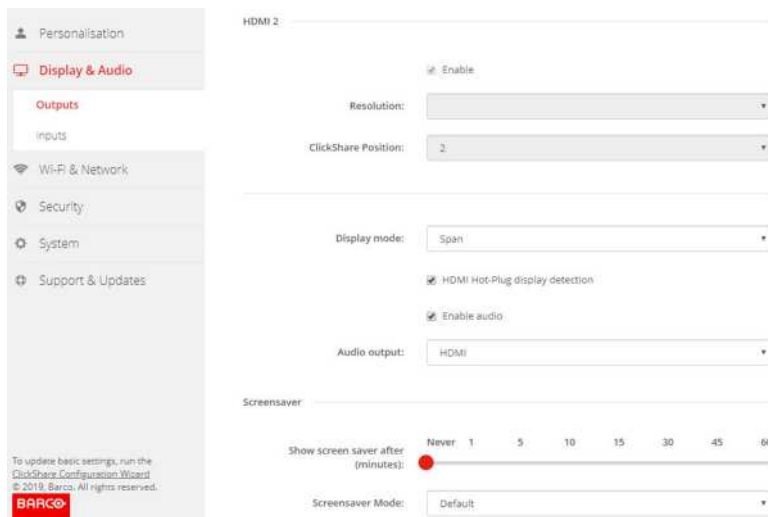


Image 6-20: Display mode

3. Click on the drop down box and select the desired mode.

The following modes are available

- Extended
- Clone
- Span

4. Click on **Save changes** to apply the new settings.

## Screen saver setup

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Outputs*.
3. To activate the screen saver, drag the slider bar to the left or to the right until the desired delay time is reached. When the slider is set completely to the left, the screen saver will never be activated.
4. Click on **Save changes** to apply the new settings.

## Screensaver mode

The screensaver mode can be set to an external source. The HDMI input can be configured to be used as screensaver. E.g. a room PC connected to the unit to display signage content when the Base Unit is not being used for content sharing.

Click on the drop down box next to screensaver mode and make your selection between *default* and *HDMI*.

# 6.10 Audio settings

## About the audio settings

The audio functionality can be disabled or enabled. When the enable and/or disable setting is changed, the Buttons must be re-paired before the setting becomes active.

## How to change

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Display & Audio* → *Output*.

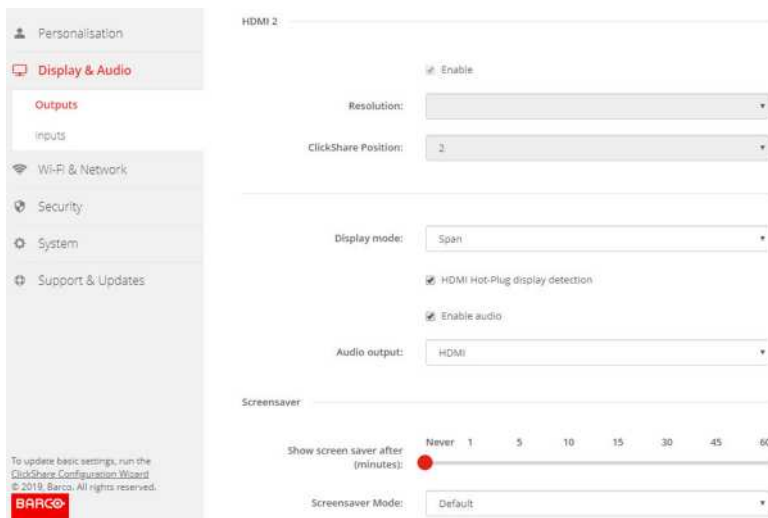


Image 6-21: Audio settings

3. Check or uncheck the check box next to Enable Audio.  
Checked: audio is enabled.  
Unchecked: audio is disabled.
4. To select the audio output, click on the drop down box and select the desired audio output.  
Jack: audio output via jack.  
HDMI: audio output via HDMI.  
SPDIF: digital audio output via TOSLINK
5. Click on **Save changes** to apply the new settings.

## 6.11 Display setup, Inputs

### About the inputs

When an input source is connected to one of the inputs (HDMI1 or HDMI2), the corresponding Signal LED lights up. The name of the source is displayed next to Source Name but can be changed. This source name is displayed on the screen. Each input can be enabled or disabled.

### How to change the source name

1. Log in to the *Configurator*.
2. Click *Display & Audio* → *Inputs*.

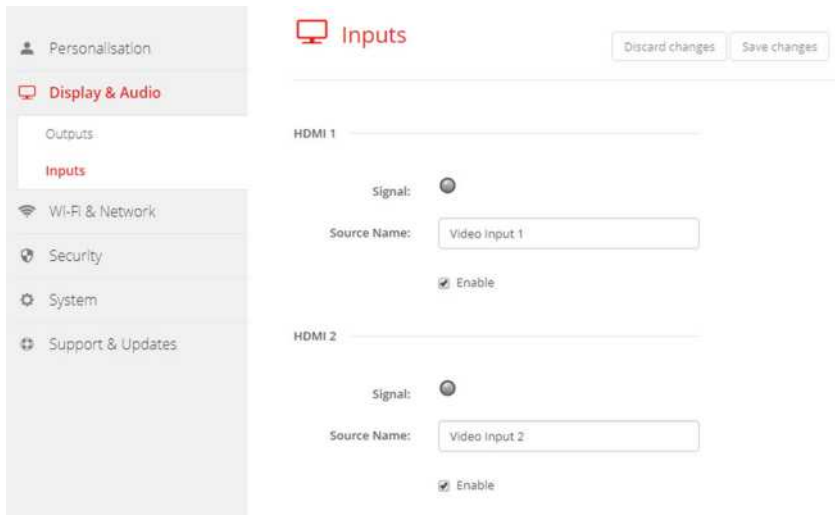


Image 6-22: Inputs

3. Click in the input field, select the current name and enter a new name.
4. Click on **Save changes** to apply the new settings.

## 6.12 WiFi settings



**WARNING:** It is not allowed to operate the Base Unit outside its intended geographical region.

### About WiFi

A connection with the Base Unit can be made via a wireless connection. A fixed wireless IP address is used to establish the connection.

The transmission power of the wireless signal can be reduced. When reducing the transmission power, it is reduced for both frequencies.

An overview of the current settings is given when *Wi-Fi Settings* is selected and operational mode is *Access Point*.



Changing the IP address will require a repairing of the Buttons used with this Base Unit.

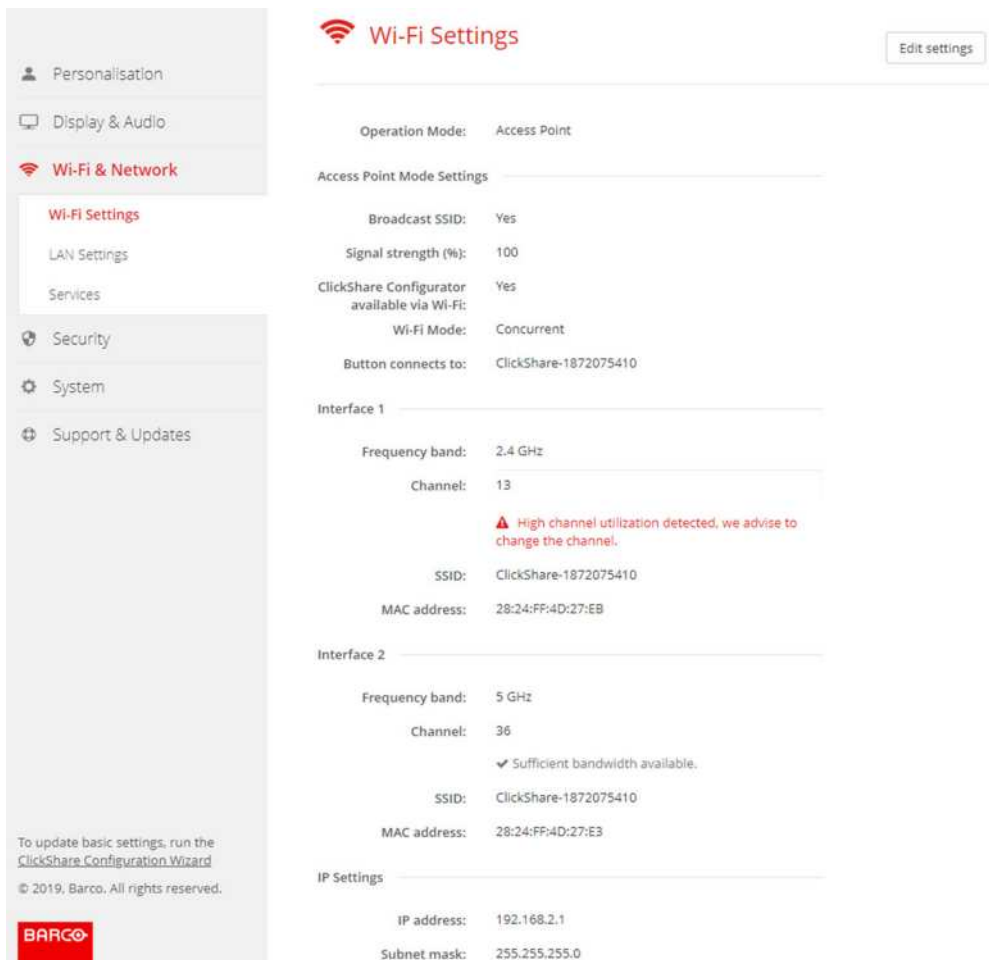


Image 6-23: WiFi settings

When operational mode is set to *Off*. The following info is given: “The wireless interface is disabled. Buttons must be configured to connect to another Wi-Fi access point. Click *here* to go to the Button configuration page”.

Click on *here* to start the button configuration. For more info, see “*Buttons*”, page 96.

To change any WiFi-setting, click on **Edit settings**. The view depends on the previous selected operational mode. Here given with *Access Point* selected.

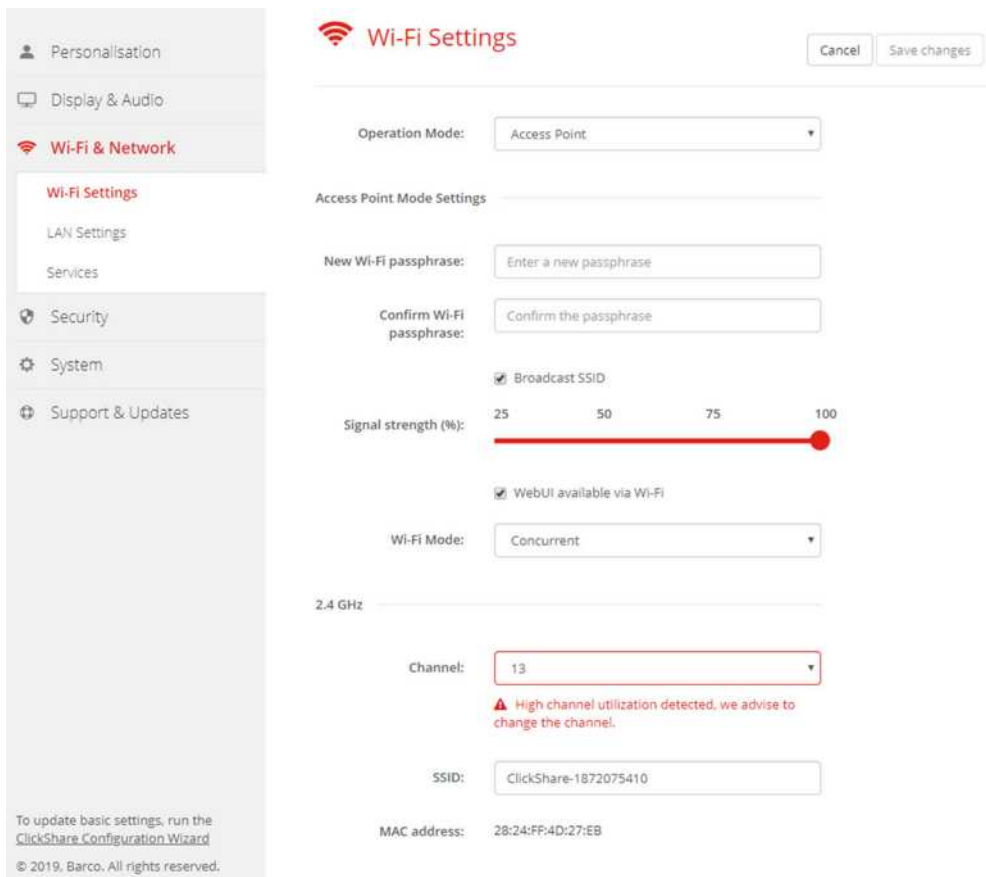


Image 6-24: WiFi settings, edit

## Operational mode

1. Log in to the *Configurator*.
2. Click *Wi-Fi & Network* → *WiFi Settings*.
3. Click **Edit settings**.
4. Click on the drop down box next to *Operational Mode* and select the desired mode.

The following options are possible:

- Access Point: continue with the next blocks in this topic.
- Off

## WiFi passphrase

1. Enter a new WiFi passphrase.
2. Confirm that new WiFi passphrase.



**CAUTION:** It is strongly recommended to change the Wi-Fi passphrase on first use to prevent anyone else accessing the Wi-Fi network.

## Signal strength

1. Select the Signal Strength. Click on the slider and reduce the broadcasted power (signal strength) until the desired strength is obtained.



**Note:** Too low power and interference by others might lead to connection issues. If so, increase again the signal strength until the issues are solved.

By default the strength is set to 100%.

Reducing the signal strength limits the effect of overlapping networks in the 2.4 GHz channels. Not necessary for the 5 GHz channels as their is no overlap.

### IP address & subnet mask (IP settings)

1. Log in to the *Configurator*.
2. Click *Wi-Fi & Network* → *WiFi Settings*.
3. To change the IP address or subnet mask, click in the input field and enter the 4 octets of the new IP address or subnet mask.



**Note:** This must NOT be 0.0.0.0 for static IP-Address assignment.

### About frequency band & channel selection

In an ideal setup, overlapping channels should not be used for two ClickShare Base Units within range of each other. As the channels in the 2.4 GHz band overlap with each other, best practice is to use channels 1, 6 and 11 on a single floor. On floors above and below, the channel pattern will be shifted to avoid overlap between floors, e.g. by placing channel 6 at the center of the illustrated pattern.

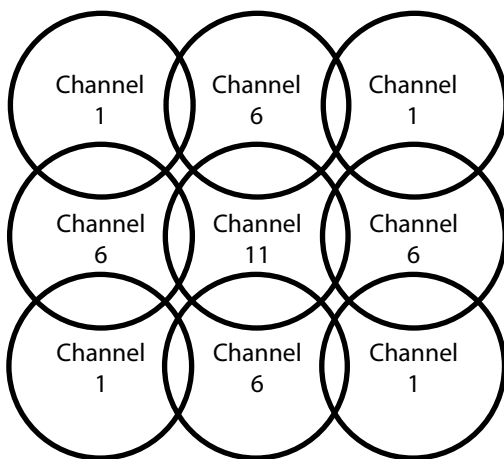


Image 6-25

To limit the effect of overlapping networks, it is highly recommended to reduce the signal strength (standard range of about 30m) of the ClickShare Base Units. Reducing the signal strength to its minimal value will reduce the actual range of the ClickShare to about 10m. By doing so, the size of coverage overlapping area will shrink and the risk for quality degradation will decrease or even disappear.

The 5 GHz channels do not overlap with each other and are less used by non-Wi-Fi devices than the 2.4 GHz channels. Moreover, 5 GHz signals are more rapidly damped than 2.4 GHz signals. Therefore, the use of a 5 GHz channel is recommended. This will limit the impact of a ClickShare system on other installed ClickShare units and on other WLAN users.

### WiFi Mode and channel selection

1. Select the wireless connection mode by clicking on the drop down box and selecting the desired mode.

The following modes are possible:

- Concurrent
- 2.4 GHz only
- 5 GHz only

Depending on the selection the bottom pane will change. When Concurrent is selected, the panes for 2.4 GHz and 5 GHz are available each with the SSID and the MAC address. When typical frequency is selected, only that pane will be available, the other one is blanked out.

2. Select the channel for the selected frequency. Click on the drop down box and selecting the correct band. If Concurrent is selected you have to select the channel for each frequency.

2.4 GHz

Channel A:  

✓ Sufficient bandwidth available.

SSID:

MAC address: 28:24:FF:4D:1E:4F

Image 6-26

Below the channel selection pane, an indication is given of the available bandwidth of the current channel. To see if sufficient bandwidth is available in a different channel, select the channel in the dropdown and save the changes. The page will reload with the new settings and an indication of the channel fit will be given after approximately 1 minute. There is no need to reload the page to see the result.

The channels available in the list vary according to the regional version of your Base Unit. Re-pairing the Buttons is not required when changing the frequency band or wireless connection channel.

## SSID

1. Enter a public name (SSID) for the wireless network.  
The default SSID is *ClickShare-**<serial number Base Unit>***.
2. If you want to broadcast this SSID, check the checkbox before *Enable SSID broadcast*.

## ClickShare Configurator (WebUI) access via Wi-Fi

1. To allow access to the configurator via Wi-Fi, check the check box in front of *WebUI available via Wi-Fi*.  
Checked: Configurator accessible via Wi-Fi.  
Not checked: access to the configurator via Wi-Fi is blocked.

# 6.13 LAN Settings

## About LAN network settings

A network connection can be configured through DHCP or by manually entering a fixed IP address.

The LAN interface is split up in a primary interface and a secondary interface. During normal operation both LAN inputs have the same functionality. During standby, the primary interface acts as a network standby and the secondary interface is than switched off.

A practical example as use case:

Integrate ClickShare within a network to manage and integrate into a network to share. For integration, one should preferably use the primary network connector as the Buttons can only wake up the Base Unit from network standby using the primary connector.



**CAUTION:** Both LAN connections must be connected to two different networks.



### DHCP

Dynamic host configuration protocol. DHCP is a communications protocol that lets network administrators manage centrally and automate the assignment of IP addresses in an organization's network. Using the Internet Protocol, each machine that can connect to the Internet needs a unique IP address. When an organization sets up its computer users with a connection to the Internet, an IP address must be assigned to each machine. Without DHCP, the IP address must be entered manually at each computer and, if computers move to another location in another part of the network, a new IP address must be entered. DHCP lets a network administrator supervise and distribute IP addresses from a central point and automatically sends a new IP address when a computer is plugged into a different place in the network.

## Dual network connection

Dual network functionality allows for instance to connect simultaneously to the corporate and guest LAN, allowing both employees and guests to share content via the ClickShare App, Airplay or Google Cast to the ClickShare unit without changing their network connection. This eliminates the need for the IT administrator to route traffic between the two networks. The built-in firewall in the Base Unit prevents any traffic bridging between the two connected networks.

## Hostname

1. Log in to the *Configurator*.
2. Click *Wi-Fi & Network* → *LAN Settings*.

Image 6-27: LAN settings

3. Click in the input field next to *Hostname* and enter a host name for the Base Unit.  
The default host name is *ClickShare-**<serial number Base Unit>***.
4. Click **Save changes** to apply the settings.

## Setup the primary and secondary interface

1. To select the method, click on the drop down box next to *Method* and select the *Automatic (DHCP)* or *Manual*.  
When Automatic (DHCP) is selected, the IP address, subnet mask and default gateway fields are grayed out but the currently used settings are filled out.  
For manual setup, see “Manual (fixed) IP address”.

## Manual (fixed) IP address

1. Click on the drop down box next to *Method* and select *Manual*.  
The IP address, subnet and gateway input fields are activated.  
The default IP addresses are filled out.

For the primary interface: "192.168.0.23" . For the secondary interface: "192.168.1.23". Both with subnet mask "255.255.255.0".

2. Click in the input field of the *IP address* and fill out the 4 octets.



*Note:* An address contains 4 octets with a maximum value of 255.

This must NOT be 0.0.0.0 for static IP-Address assignment

3. Click in the *Subnet mask* input fields and fill out the 4 octets as appropriate for the local subnet.
4. Click in the *Default Gateway* input fields and fill out the 4 octets. Set the Default-Gateway to the IP-Address of the router (MUST be on the local subnet!).



*Note:* This must NOT be 0.0.0.0.

If there is no router on the local subnet then just set this field to any IP-Address on the subnet.

5. Click in the DNS Servers input field and fill out the preferred DNS servers (maximum 5) in a comma separated list.
6. Click **Save changes** to apply the settings.



Do not use IP address 192.168.2.x for a Subnet mask 255.255.255.0 and IP address 192.168.x.x for a Subnet mask 255.255.0.0

## Use a proxy server

This setting is important for the auto-update feature of the Base Unit, which require internet access.

1. Check the check box next to Use a proxy server.

☒ Use a proxy server

Server address:

Server port (optional):

User name (optional):

Password (optional):

Image 6-28: Proxy settings

The proxy settings become available.

2. Enter the proxy server address. Enter the IP address or hostname.  
Some proxy servers need a port number, user name and password, for others is this optional.
3. Optionally, enter the used server port.
4. Optionally, enter the user name.
5. Optionally, enter the password.
6. Click **Save changes** to apply the settings.



For the moment, only the primary network connector can be used for API, Management Suite and Network Integration.

## 6.14 LAN Settings, Wired Authentication

### How to setup

1. Click on **Setup wired authentication...**

The screenshot displays the 'LAN Settings' interface. On the left is a sidebar with navigation options: Personalisation, Display & Audio, Wi-Fi & Network (selected), Network Integration, Services, Security, System, and Support & Updates. The main content area is titled 'LAN Settings' and includes a 'Discard changes' and 'Save changes' button. It is divided into sections: 'LAN Hostname Settings' with a 'Hostname' field set to 'ClickShare-iceland-CSE-800'; 'Primary Interface' with fields for 'Method' (Automatic (DHCP)), 'IP address' (10.200.18.147), 'Subnet mask' (255.255.254.0), 'Default gateway' (10.200.18.1), 'MAC address' (00:04:A5:00:4B:66), and 'DNS servers' (10.197.192.11, 10.193.251.11); 'Wired Authentication Status' showing 'Disabled state' and a 'Setup wired authentication...' button; and 'Secondary Interface' showing 'No link detected'. A footer note mentions the ClickShare Configuration Wizard and copyright information.

Image 6-29: Wired authentication

The setup wizard starts.

2. Select the authentication method. Click on the drop down and select the desired method.

The following methods are available:

- No authentication: no authentication mechanism will be applied to the wired interface.
- EAP-TLS
- EAP-TTLS
- PEAP

## 6.15 LAN Settings, EAP-TLS security mode

### About EAP-TLS

EAP-TLS (Transport Layer Security) is an EAP method based on certificates which allows mutual authentication between client and server. It requires a PKI (Public Key Infrastructure) to distribute server and client certificates. For some organizations this might be too big of a hurdle, for those cases EAP-TTLS and PEAP provide good alternatives. Even though a X.509 client certificate is not strictly required by the standard it is mandatory in most implementations including for ClickShare. When implemented using client certificates, EAP-TLS is considered one of the most secure EAP methods. The only minor disadvantage, compared to PEAP and EAP-TTLS, is that the user identity is transmitted in the clear before the actual TLS handshake is performed. EAP-TLS is supported via SCEP or manual certificate upload.

## How to setup EAP-TLS

1. Select Authentication Mode *EAP-TLS*.

ClickShare Wired Authentication Wizard

Authentication Mode:

Domain:

Identity:

Provide certificate:

Upload client certificate:  Geen bestand gekozen  
Allowed file formats: .pfx (PKCS#12), .p12 (Base64 encoded DER). File should at least include the client certificate and corresponding private key.

Client certificate Password:

Upload CA certificate:  Geen bestand gekozen  
Allowed file formats: .pem, .cer, .crt, .p7b (Base64 encoded DER). File should at least contain the root CA certificate for your domain.

Image 6-30: EAP-TLS

2. Fill out the *Domain* and *Identity*.
3. Select the certification method. Click on the drop down box and select the desired method.
  - Manually provide Client & CA certificates
  - Auto enrollment via SCEP

### Manually providing certificates

1. Upload client certificate. Click on Choose file and browse to the desired file.

Allowed file formats:

- .pfx (PKCS#12)
- .p12 (Base64 encoded DER)

The should at least include the client certificate and corresponding private key.

2. Enter the Client certificate Password.
3. Upload CA certificate. Click on Choose file and browse to the desired file.

The following formats are allowed:

- .pem
- .cer
- .crt
- .pb7 (Base64 encoded DER)

File should at least contain the root CA certificate for your domain.

4. Save configuration

### Using SCEP

The Simple Certificate Enrolment Protocol (SCEP) is a protocol which enables issuing and revoking of certificates in a scalable way. SCEP support is included to allow a quicker and smoother integration of the ClickShare Base Unit and Buttons into the corporate network. Since most companies are using Microsoft Windows Server and its active directory (AD) to manage users and devices our SCEP implementation is

specifically targeted at the Network Device Enrolment Service (NDES) which is part of Windows Server 2008 R2 and Windows Server 2012. No other SCEP server implementations are supported.

The screenshot shows the 'ClickShare Wired Authentication Wizard' window. It has a dark title bar with the text 'ClickShare Wired Authentication Wizard' and a close button. The main area is white and contains several configuration fields:

- Authentication Mode:** A dropdown menu with 'EAP-TLS' selected.
- Domain:** An empty text input field.
- Identity:** An empty text input field.
- Provide certificate:** A dropdown menu with 'Auto enrollment via SCEP' selected.
- SCEP server:** A text input field containing 'http://' followed by a small button with a checkmark and the text '/CertSrv/mscep\_admin/'.
- SCEP username:** An empty text input field.
- SCEP password:** An empty text input field.

At the bottom right, there is a red 'Save configuration' button with a checkmark icon. At the bottom center, there is a red 'BARCO' logo.

Image 6-31: EAP-TLS — SCEP

SCEP ServerIP/ hostname	This is the IP or hostname of the Windows Server in your network running the NDES service. By default HTTP is used. E.g.: http://myserver or http://10.192.5.1
SCEP User name	This is a user in your Active Directory which has the required permission to access the NDES service and request the challenge password. To be sure of this, the user should be part of the CA Administrators group (in case of a stand-alone CA) or have enroll permissions on the configured certificate templates.
SCEP Password	The corresponding password for the identity that you are using to authenticate on the corporate network. Per Base Unit, every Button uses the same identity and password to connect to the corporate network.

Click on **Save configuration** to save the settings.

## 6.16 LAN Settings, EAP-TTLS security mode

### About EAP-TTLS

EAP-TTLS (Tunneled Transport Layer Security) is an EAP implementation by Juniper networks. It is designed to provide authentication that is as strong as EAP-TLS, but it does not require each user to be issued a certificate. Instead, only the authentication servers are issued certificates. User authentication is performed by password, but the password credentials are transported in a securely encrypted tunnel established based upon the server certificates.

User authentication is performed against the same security database that is already in use on the corporate LAN: for example, SQL or LDAP databases, or token systems. Since EAP-TTLS is usually implemented in corporate environments without a client certificate we have not included support for this. If you prefer using client certificates per user we suggest using EAP-TLS.

### How to setup EAP-TTLS

1. Select Authentication Mode *EAP-TTLS*.

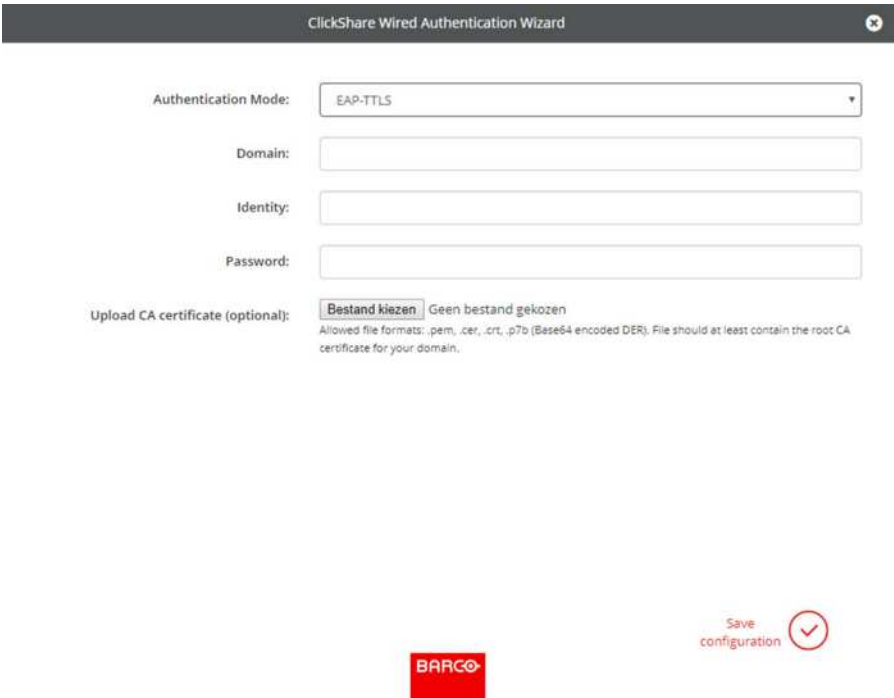


Image 6-32: EAP-TTLS

2. Fill out the *Domain* and *Identity*.

Domain	The company domain for which you are enrolling, should match with the one defined in your Active Directory.
Identity	Identity of the user account in the Active Directory which will be used by the ClickShare Buttons to connect to the corporate network.

3. Enter the *Password*.

The corresponding password for the identity that you are using to authenticate on the LAN network. Per Base Unit each Button will use the same identity and password to connect to the corporate network.

4. Optionally, upload the CA certificate.

The following formats are allowed:

- .pem
- .cer
- .crt
- .pb7 (Base64 encoded DER)

File should at least contain the root CA certificate for your domain.

5. Click **Save configuration**.

## 6.17 Services, mobile devices

### ClickShare app

This function enables the possibility to connect with a mobile device using the ClickShare app to connect to the Base Unit.

It is enabled by default. When the Base Unit is integrated in the corporate network, it may be required to disable content sharing from the ClickShar app.

## About streaming information via AirPlay

Before you can stream information and display it via ClickShare your device must be connected with the wireless network of the Base Unit. Then AirPlay must be activated on your device. For more information about activating AirPlay, consult the user guide of your device.

The supported versions of AirPlay can be found on Barco's website, [www.barco.com/clickshare](http://www.barco.com/clickshare). The support of non-released version of these protocols cannot be guaranteed by Barco.

## About streaming via Google Cast

Before you can mirror information and display it via ClickShare your device must be connected with the wireless network of the Base Unit. When activating Google Cast on your device an overview of the access points is given. For more information about using Google Cast, consult the user guide of your device.

The supported versions of Google Cast can be found on Barco's website, [www.barco.com/clickshare](http://www.barco.com/clickshare). The support of non-released version of these protocols cannot be guaranteed by Barco.

Google Cast does not support a passcode.



Google Cast can only be used when the clock of the Base Unit is set correctly. If not Google Cast cannot make a connection with the Base Unit.

## How to enable

1. Log in to the *Configurator*.
2. Click *WiFi & Network* → *Services*.

Image 6-33: Services, mobile devices

3. To allow sharing content via ClickShare app, check the check box in front of *Sharing via ClickShare app*.  
To allow streaming via AirPlay, check the check box in front of *Streaming via AirPlay*.  
To allow streaming (mirroring) via Google Cast, check the check box in front of *Streaming via Google Cast*.
4. To add a passcode, click on the drop down and select the desired passcode (not for Google Cast).

The following options are possible:

- No passcode
- Numeric passcode

5. Click **Save changes** to apply this setting.

Access via mobile devices is activate.

## 6.18 Service, ClickShare API, remote control via API

### About API settings

The API can be enabled or disabled, that means that the access to the unit from an external device can be allowed or can be blocked.

This functions in enabled by default.

### How to enable

1. Log in to the *Configurator*.
2. Click *WiFi & Network* → *Services*.

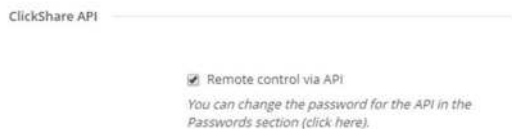


Image 6-34: ClickShare API setting

3. Check the check box in front of *Remote control via API* to enable this function.  
Checked: remote control via API is allowed. A password can be used to protect the access.  
Not checked: no remote control via API allowed.

## 6.19 XMS/CMGS Server Integration

### About the XMS/CMGS Server integration

The CSE-800 Base Unit can be integrated within the company network and controlled via the XMS/CMGS server application depending on the user rights.

### How to integrate

1. Log in to the *Configurator*.
2. Click *WiFi & Network* → *Services*.

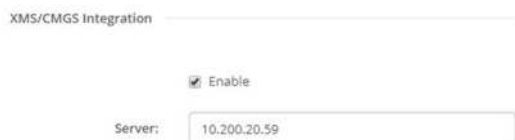


Image 6-35: XMS/CMGS Server integration

3. Click in the XMS/CMGS Server input field and enter the IP address or hostname of the XMS/CMGS server.
4. Click **Save changes** to apply the settings.

## 6.20 Services, SNMP

### About SNMP

Simple Network Management Protocol (SNMP) is an internet standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behaviour. In general a SNMP management suite (running on a server) communicates with an SNMP agent (running on the device). The SNMP agent collects and exposes device information in the form of variables according a MIB (Management Information Base). SNMP management suites will be able to approach ClickShare devices via SNMP protocol for requesting device information.

SNMPv3 is supported.

### How to enable

1. Log in to the *Configurator*.
2. Click *WiFi & Network* → *Services*.
3. Scroll to *SNMP*.

Image 6-36: Service, SNMP

4. Check the check box in front of *Enable*.  
The configuration fields become available.

### How to configure

1. When using the default *Engine ID*, make sure the check box before *Use default Engine ID* is checked.  
The default engine ID is a combination of the Barco Enterprise Number with the MAC-address (eth0).

2. Fill out the *SNMP Manager* address.

That is the host address which will receive the TRAP events/messages.  
Possible traps can be:

- Alarm CPU temperature trap which indicates that CPU temperature exceeds the threshold.
- Alarm Case Fan Speed trap which indicates the case fan is spinning too slow.
- Alarm Process Not Running trap which indicates one of the monitored processes is not running.

3. Enter the *Username*.
4. Enter a new password and confirm that password.

## 6.21 Services, Remote Button Pairing

### About remote Button pairing

When using ClickShare Button Manager, a stand alone software application on your computer, you can manage your Buttons on most of the types of ClickShare Base Units. Your computer can pair up to four Buttons at once with a known Base Unit. It is not necessary anymore to physically connect the Button with the Base Unit to pair it. This functionality makes it easy to use any Button with any Base Unit. Before you can use the ClickShare Button Manager a password must be configured on each Base Unit.

### How to setup

1. Log in to the *Configurator*.
2. Click *WiFi & Network* → *Services*.
3. Scroll to *Remote Button Pairing*.

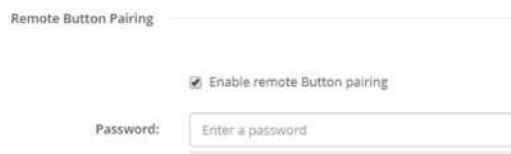


Image 6-37: Service, Remote Button pairing

4. Check the checkbox in front of *Enable remote Button pairing*.  
 Checked: remote Button pairing is activated. A password should be entered to start the remote pairing from the Button Manager.  
 Not checked: remote Button pairing is deactivated.
5. Click in the input field next to *Password* and enter a password.
6. Click **Save changes** to apply the settings.

## 6.22 Security, security level

### About security levels

For the use of the ClickShare system, a security level can be set. By default, level 1 is activated. A security level is a predefined set of settings which are automatically set when a level is selected.

**Level 1** : offers support for normal day-to-day operations in any organization.

Level 1 contains the standard security options and encryption of audio and video data.

The standard security options are:

- PIN code activation for mobile apps and Buttons,
- ClickShare Configurator (WebUI) access via HTTPS with login management,
- no wireless ClickShare Configurator (WebUI) access,
- SSID of Wi-Fi network is hidden.

**Level 2** : this level offers a higher degree of security, fit for organizations that are more sensitive to security matters.

Level 2 contains the level 1 security and a mandatory PIN code for mobile devices. Alphanumeric PIN codes for mobile apps and Buttons and the Buttons require a certificate for pairing.

**Level 3** : this level is used for organizations that have extremely strict requirements with regards to security.

Level 3 contains the level 2 security extended with blocking of mobile apps, downgrading firmware not possible and no wireless access to the Configurator (WebUI).

When a security level is set, the individual items included in that security level can be changed using the individual item in the Configurator. When changing an individual item the security level indication will be adapted accordingly, but no other settings will be changed automatically.

E.g. when level 3 is set and you change mobile app blocking to allowed, then the security level indication will change to level 2. But all other items initially in level 3 remains in the level 3 state.



To reset your individual changes, select the desired security level and click **Save changes**.



Changing the security level will require a re-pairing of the Buttons.

Changing the security level from 1 to a higher level will change the compatibility setting for Buttons with certificate (R9861006D01). They cannot re-pair as long as the security setting is higher than level 1.

## How to set the security level

1. Log in to the *Configurator*.
2. Click *Security* → *Security Level*.

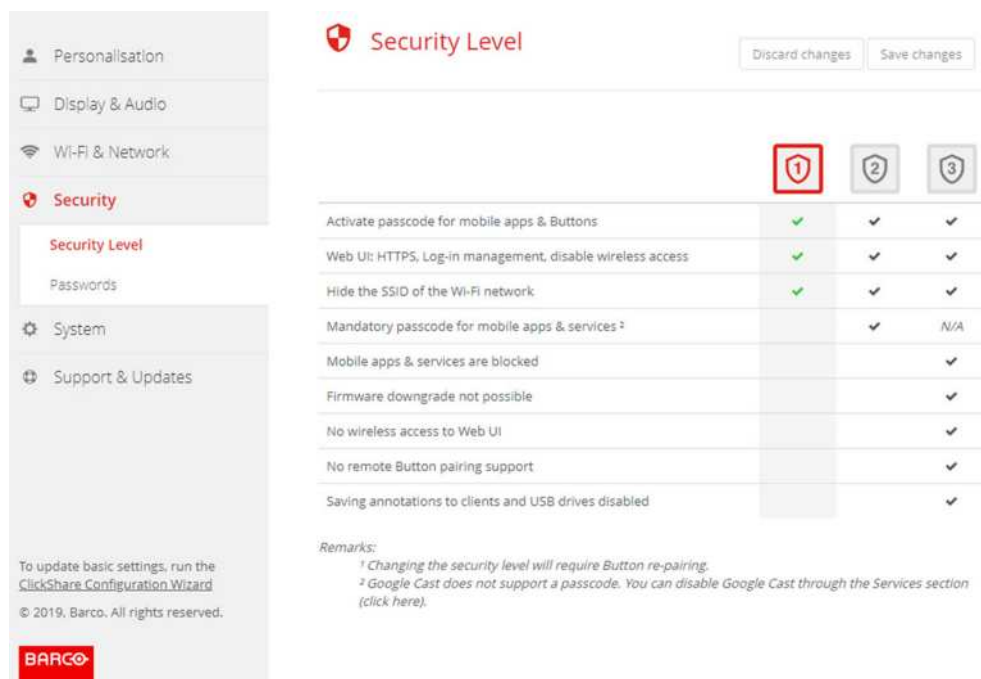


Image 6-38: Security levels

3. Select the desired security level icon.
4. Click **Save changes** to apply the setting.

## 6.23 Security, passwords

### About passwords

To access the ClickShare Configurator (WebUI) a user name and password is needed. That password can be changed at any time to protect the *ClickShare Configuration* settings.

The ClickShare API access is password protected. That password can be changed in the ClickShare Configurator.

### Changing the ClickShare Configurator password

1. Log in to the *Configurator*.

2. Click **Security** → **Passwords**.

The screenshot shows the 'Passwords' configuration page in the CSE-800 Configurator. On the left, a sidebar lists system settings: Personalisation, Display & Audio, Wi-Fi & Network, Security (selected), Security Level, Passwords (highlighted), System, and Support & Updates. The main content area is titled 'Passwords' and includes 'Discard changes' and 'Save changes' buttons. It contains three sections: 'WebUI Password' with input fields for 'Old password', 'New password', and 'Confirm password'; 'ClickShare API Password' with input fields for 'New password' and 'Confirm password'; and 'HTTP Encryption' which shows a status message 'HTTP communication is currently encrypted using a self-signed certificate.' and a 'Setup HTTP encryption...' button.

Image 6-39: Passwords

3. Click in the *WebUI Password* pane in the input field next to *Old password* and enter the old password.
4. Click in the input field next to *New password* and enter a new password.
5. Click in the input field next to *Confirm password* and enter the new password again.
6. Click **Save changes** to apply.

### Changing the ClickShare API Password

1. Log in to the *Configurator*.
2. Click **Security** → **Passwords**.
3. Click in the *ClickShare API Password* pane in the input field next to *New password* and enter the new password.
4. Click in the input field next to *Confirm password* and enter the new password again.
5. Click **Save changes** to apply.

## 6.24 Security, HTTP Encryption

### About HTTP encryption

Custom certificates for HTTPS can be uploaded to the ClickShare Base Unit. Custom certificates can as such replace the default self-signed ClickShare certificates for better compliance with company policies and have the advantage that privacy errors when browsing to the ClickShare Configurator can be avoided.

### How to create a custom certificate

1. Log in to the *Configurator*.
2. Click **Security** → **Passwords** and scroll to *HTTP Encryption*.
3. Click **Setup HTTP encryption...**

**Passwords** [Discard changes] [Save changes]

**WebUI Password**

Old password:

New password:

Confirm password:

**ClickShare API Password**

New password:

Confirm password:

**HTTP Encryption**

HTTP communication is currently encrypted using a self-signed certificate.

HTTP Encryption:

Image 6-40: HTTP Encryption

4. Choose the HTTP Encryption Mode. Check the corresponding radio button.

#### Choose HTTP Encryption Mode

- ☐ Upload Certificate  
☐ Create Certificate Signing Request  
☐ Generate ClickShare Self Signed Certificate

Image 6-41: HTTP encryption mode

The following modes are possible:

- Upload Certificates
  - Create Certificate Signing Request
  - Generate ClickShare Self Signed Certificate
5. To create a certificate signing request, check the corresponding radio button and click **Next** (right arrow).
  6. Enter the necessary details to create a Certificate Signing Request.

### Create Certificate Signing Request

Domain Name:

Common Name: ClickShare-Iceland-CSE-800.

Organization:

Department:

City:

State / Province:

Country:

Image 6-42: Certificate signing request

The following items are possible:

- Domain name.
- Organization.
- Department.
- City.
- State / Province
- Country

7. Click **Next** (right arrow)

A CRS is created and can be downloaded.

8. Click **Download CSR**.

### Upload a certificate

1. Click *Security* → *Passwords* and scroll to *HTTP Encryption*.
2. Click **Setup HTTP encryption...**
3. Choose Upload Certificate.

### Upload certificate

Passphrase:

Upload certificate:

Allowed file formats:  
 .pfx/.p12 (PKCS#12)  
 .pem (Base64 encoded)

Image 6-43

The Upload certificate window opens.

4. Enter your passphrase and click **Upload certificate...**

A browse window opens.

5. Browse to the certificate file and click **Open**.

A certificate can have the following formats:

- .pfx/.p12 (PKC#12)
- .pem (Base64 encoded)

- Click **Finish configuration**.

## 6.25 Status information Base Unit

### Status information

The following information can be found:

- Model information, name and part number
- Serial number
- Firmware version
- First used
- Last used
- Current uptime: time since last startup
- Lifetime uptime: time used since first startup
- Overall status

### Base Unit restart

- Log in to the *Configurator*.
- Click *Support* → *Base Unit Status*.

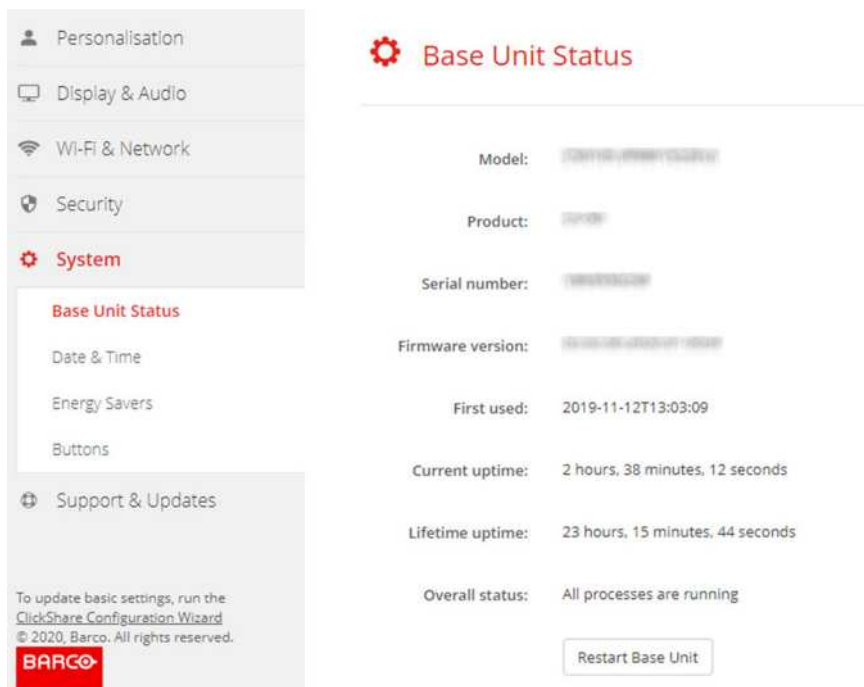


Image 6-44

- To restart the Base Unit, click on **Restart Base Unit**.  
A ClickShare system reboot message with progress bar is displayed while rebooting takes place.  
When the reboot is finished, a re-login is necessary.

## 6.26 Date & Time setup, manually

### About Date & Time setup

The date and time can be set manually using the time zone indication or using at least one NTP servers.

## How to setup

1. Log in to the *Configurator*.
2. Click *System* → *Date & Time*.

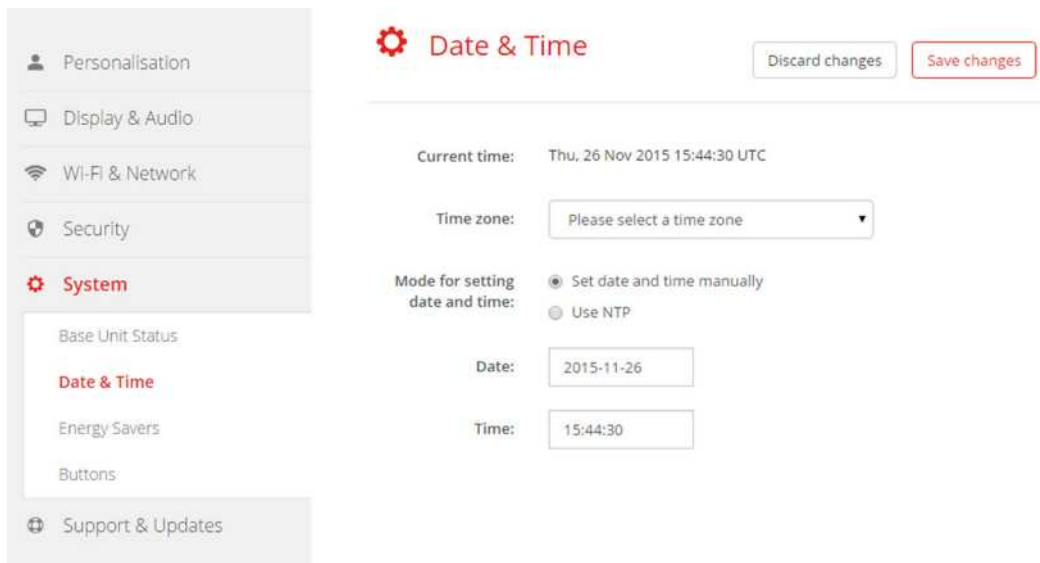


Image 6-45: Manual time & date update

The current time is indicated next to *Current time*.

3. Select your time zone. Click on the drop down box next to *Time zone* and select the corresponding time zone.
4. Check the radio button in front of *Set time and date manually*.
5. To change the date, click in the input field next to *Date*.

A calendar window opens. The current date is indicated with a red background.



Image 6-46: Date selection

6. To change the month, click on the left or right arrows next the month name until the desired month and year are obtained.

Click on a number in the number field to setup the day.

7. To change the time, click in the time field next to *Time*.

A window with 3 scroll counters open.



Image 6-47: Time setup

8. Click on the up down arrow of each scroll counter until the correct hour, minutes and seconds are obtained.
9. Click **Save changes** to apply.

## 6.27 Date & Time setup, time server

### About using NTP server

The clock is continuously synchronized with an external time server and the deviation is in the order of milliseconds. Extra time servers can be added.

As long as there is no synchronization with a time server the status is indicated as disabled.

### How to setup

1. Log in to the *Configurator*.
2. Click *System* → *Date & Time*.

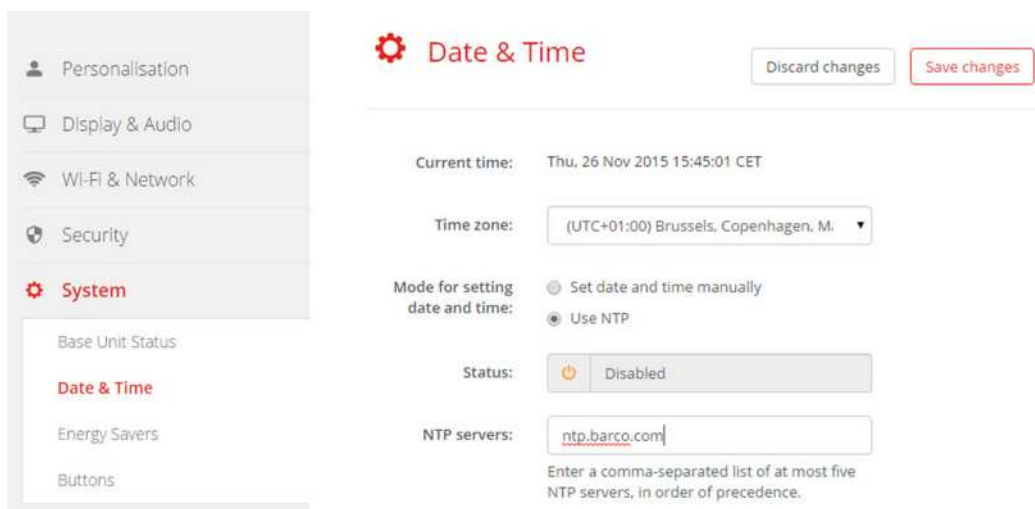


Image 6-48: Time server setup

The current time is indicated next to *Current time*.

3. Check the radio button next *Use NTP*.
4. Enter a NTP server address next to *NTP servers*. Enter the IP address or server name.



*Note:* Multiple servers (maximum 5) can be added, separated by a comma.

5. Click **Save changes** to apply.

A synchronization with the NTP server takes place. The status field indicates the progress.

## 6.28 Energy savers

### About standby

**Standby after (minutes):** If there is no client connection detected during the standby timeout period, the Base Unit will enter the selected standby mode.

Default setting: Time to standby: 10 min, the Base Unit will enter the Eco standby mode.

### Eco mode

When the Base Unit enters ECO standby mode, it will disable the HDMI output signal and go in low power mode. The Base Unit's LEDs will be breathing white to indicate the ECO standby mode.

Power consumption in Eco standby: 2.6W

The Base Unit will wake up with one of the following actions:

- Button connecting with the Base Unit
- Press the standby button on the Base Unit
- "Wake up" signal over the network
- Pairing a Button on the Base Unit's USB port
- Detection of display hot plug

### Standby mode

When the Base Unit goes in standby mode, it will shut down all processes, including the Wi-Fi access point and the secondary LAN connection.

When there is an active network connected to the Base Unit's primary LAN interface and Corporate network is enabled, the primary LAN interface will remain active and the Base Unit's LEDs will be breathing white to indicate this standby mode. Otherwise, The Base Unit's LEDs will be dark.

Power consumption in Deep standby: 0.4W

The Base Unit will wake up when the standby button on the Base Unit is pressed, or

when the primary LAN interface remains active: a detection of HDMI input hot plug or button or app connecting with the Base Unit's primary LAN interface.

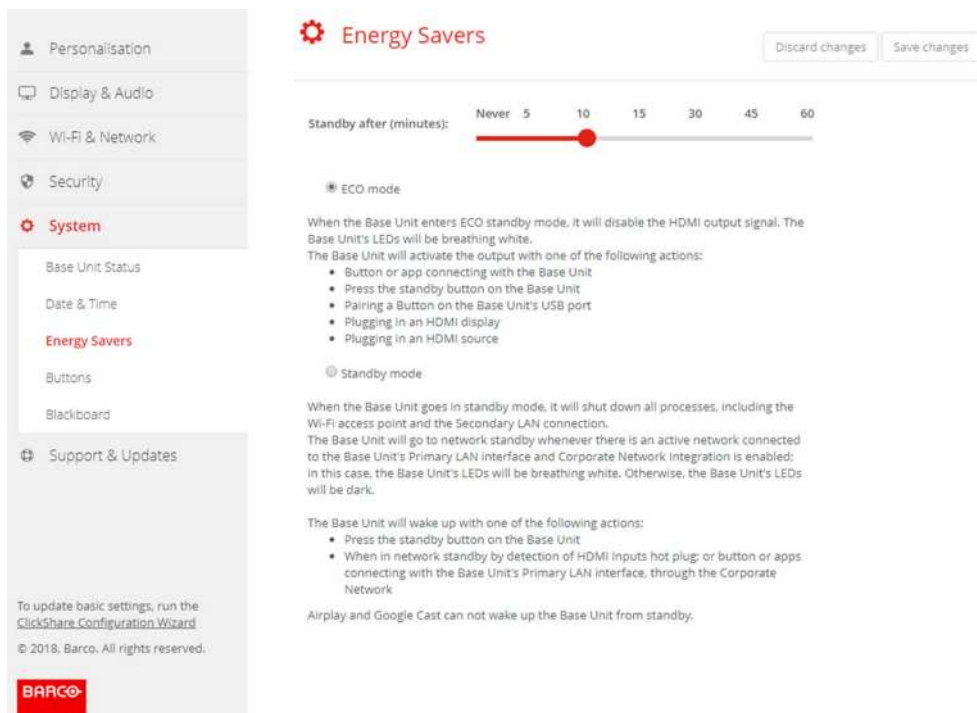


Image 6-49: Energy savers

## How to change the display timeout and standby mode

1. Log in to the *Configurator*.
2. Click *System* → *Energy Savers*.
3. To set a display time out, move the slider to the left or to the right until the desired standby timeout is reached.
4. To select a standby mode, select the radio button before *Eco standby* or *Deep standby*.

## 6.29 Buttons

### About Buttons

The Button page indicates to which Base Unit the Buttons are connected. It indicates also the current state.

All Buttons used with the Base Unit are indicated in the Buttons List. The list contains the state, the signal strength, the serial number, the firmware version, the number of connections and last connection.

It is possible to update the software of the Buttons over Wi-Fi.

### To edit the settings

1. Log in to the *Configurator*.
2. Click *System* → *Buttons*.

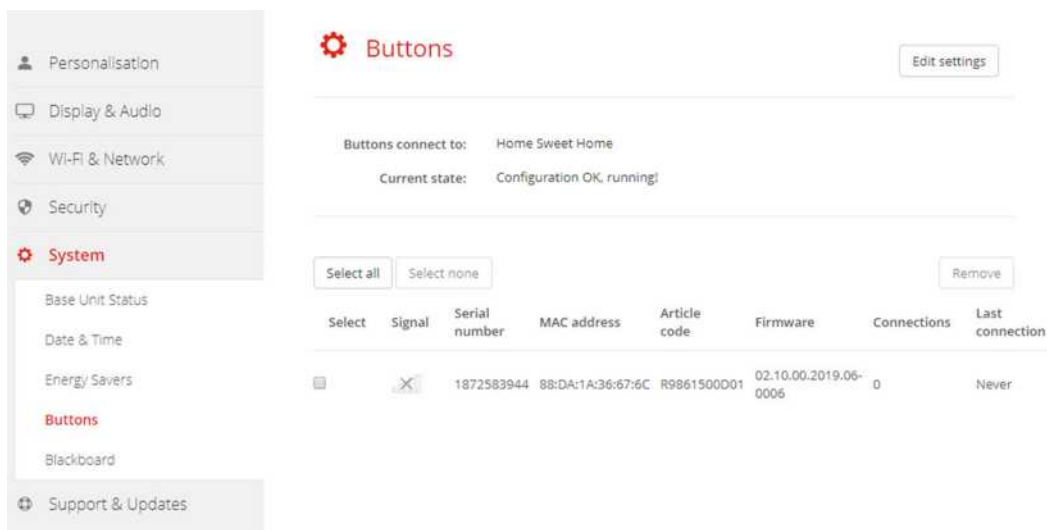


Image 6-50: Buttons overview

The current state is indicated and the list of Buttons is given.

3. Click **Edit settings**.
4. Select to which access point the Buttons are connected. Click on the drop down list next to *Buttons connect to* and select the desired point.

Depending on the selection, internal access point or external access point, settings should be filled out.

For an internal access point, no settings are needed.

## 6.30 Buttons, External access point

### Overview

The selection of a security mode for the connection between the Buttons and the corporate access points can be done in the ClickShare Configurator. When configuring the buttons to connect to an 'External Access Point', the authentication mode can be selected:

- Security mode EAP-TLS, see "*Buttons, External access point, mode EAP-TLS*", page 97.
- Security mode EAP-TTLS, "*Buttons, External access point, mode EAP-TTLS*", page 98.
- Security mode PEAP, "*Buttons, External access point, mode PEAP*", page 99.
- Security mode WPA2-PSK, "*Buttons, External access point, mode WPA2-PSK*", page 100.

## 6.31 Buttons, External access point, mode EAP-TLS

### How to fill out

1. Fill out a *Corporate SSID*.

Image 6-51: Buttons, External access point, mode EAP-TLS

The SSID of your corporate wireless infrastructure to which the ClickShare Buttons will connect.

2. Fill out the *Domain* and *Identity*.
3. Select the certification method. Click on the drop down box and select the desired method.
  - Manually provide Client & CA certificates
  - Auto enrollment via SCEP

### Manually providing certificates

1. Upload client certificate. Click on Choose file and browse to the desired file.

Allowed file formats:

- .pfx (PKCS#12)
- .p12 (Base64 encoded DER)

The should at least include the client certificate and corresponding private key.

2. Enter the Client certificate Password.
3. Upload CA certificate. Click on Choose file and browse to the desired file.

The following formats are allowed:

- .pem
- .cer
- .crt

- .pb7 (Base64 encoded DER)

File should at least contain the root CA certificate for your domain.

#### 4. Save Changes

### Using SCEP

The Simple Certificate Enrolment Protocol (SCEP) is a protocol which enables issuing and revoking of certificates in a scalable way. SCEP support is included to allow a quicker and smoother integration of the ClickShare Base Unit and Buttons into the corporate network. Since most companies are using Microsoft Windows Server and its active directory (AD) to manage users and devices our SCEP implementation is specifically targeted at the Network Device Enrolment Service (NDES) which is part of Windows Server 2008 R2 and Windows Server 2012. No other SCEP server implementations are supported.

Image 6-52: Buttons, EAP-TLS, SCEP

SCEP ServerIP/ hostname	This is the IP or hostname of the Windows Server in your network running the NDES service. By default HTTP is used. E.g.: http://myserver or http://10.192.5.1
SCEP User name	This is a user in your Active Directory which has the required permission to access the NDES service and request the challenge password. To be sure of this, the user should be part of the CA Administrators group (in case of a stand-alone CA) or have enroll permissions on the configured certificate templates.
SCEP Password	The corresponding password for the identity that you are using to authenticate on the corporate network. Per Base Unit, every Button uses the same identity and password to connect to the corporate network.

Click **Save Changes** to save the settings.

## 6.32 Buttons, External access point, mode EAP-TTLS

### How to fill out the settings

1. Fill out a *Corporate SSID*.

**Buttons** Cancel Save changes

Buttons connect to: External Access Point ▼

External Access Point Settings

Authentication Mode: EAP-TTLS ▼

Corporate SSID: Home Sweet Home

Domain:

Identity:

Password:

Upload CA certificate (optional): Bestand kiezen Geen bestand gekozen  
Allowed file formats: .pem, .cer, .crt, .p7b (Base64 encoded DER).  
 File should at least contain the root CA certificate for your domain.

Image 6-53: Buttons, External access point, mode EAP-TTLS

The SSID of your corporate wireless infrastructure to which the ClickShare Buttons will connect.

2. Fill out the *Domain* and *Identity*.
3. Enter a *Password*.
4. Upload CA certificate. Click on Choose file and browse to the desired file.

The following formats are allowed:

- .pem
- .cer
- .crt
- .p7b (Base64 encoded DER)

File should at least contain the root CA certificate for your domain.

5. Click **Save Changes** to save the settings.

## 6.33 Buttons, External access point, mode PEAP

### How to fill out the settings

1. Fill out a *Corporate SSID*.

The screenshot shows the 'Buttons' configuration window. At the top, there's a gear icon and the title 'Buttons'. Below it are 'Cancel' and 'Save changes' buttons. The 'Buttons connect to:' dropdown is set to 'External Access Point'. Under 'External Access Point Settings', the 'Authentication Mode:' dropdown is set to 'PEAP'. The 'Corporate SSID:' field contains 'Home Sweet Home'. The 'Domain:', 'Identity:', and 'Password:' fields are empty. At the bottom, there's an 'Upload CA certificate (optional):' section with a 'Bestand kiezen' button and a message: 'Geen bestand gekozen. Allowed file formats: .pem, .cer, .crt, .p7b (Base64 encoded DER). File should at least contain the root CA certificate for your domain.'

Image 6-54: Buttons, External access point, mode PEAP

The SSID of your corporate wireless infrastructure to which the ClickShare Buttons will connect.

2. Fill out the *Domain* and *Identity*.
3. Enter a *Password*.
4. Upload CA certificate. Click on Choose file and browse to the desired file.

The following formats are allowed:

- .pem
- .cer
- .crt
- .p7b (Base64 encoded DER)

File should at least contain the root CA certificate for your domain.

5. Click **Save Changes** to save the settings.

## 6.34 Buttons, External access point, mode WPA2-PSK

### How to fill out the settings

1. Fill out a *Corporate SSID*.

Image 6-55: Buttons, External access point, mode WPA2-PSK

The SSID of your corporate wireless infrastructure to which the ClickShare Buttons will connect.

2. Fill out Passphrase.

The key used in WPA2-PSK to authenticate onto the wireless infrastructure. This can be a string of 64 hexadecimal digits or a passphrase of 8 to 63 printable ASCII characters.

3. Click **Save changes** to save the settings.

## 6.35 Blackboard

### About Blackboard

Saving information from a blackboard can be enabled or disabled. When enabled, the information is saved on hard disk of all connected Buttons, connected ClickShare apps and on the USB sticks connected with the Base Unit.

### How to change the blackboard setting

1. Log in to the *Configurator*.
2. Click *System* → *Blackboard*.

Image 6-56: Save annotations

3. Check or uncheck the check box in front of *Allow saving annotations to connected clients and USB sticks*.

Checked: annotations on the blackboard can be saved.

Unchecked: no annotations on the blackboard can be saved.

## 6.36 Firmware Update

### About Firmware update

The firmware of the Base Unit can be updated via the web interface. The latest version of the firmware is available on Barco's website.

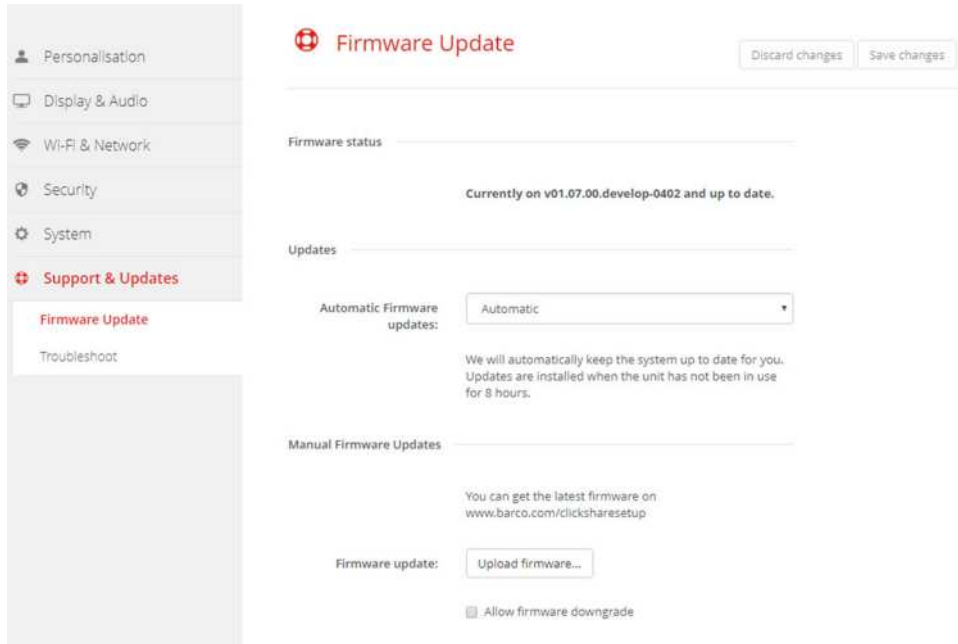


Image 6-57: Firmware update

### About automatic firmware updates

There are 3 ways to configure automatic updates:

- **Automatic:** The system will automatically detect firmware updates and install them for you when it's not in use.
- **Notify:** The system will automatically detect firmware updates and notify you on the web interface dashboard and firmware page. The update can then be initiated via the *Support & Updates > Firmware* page
- **Off:** The system will not detect firmware updates and will not notify you.

### Manual firmware update

1. Download the latest version of the firmware from Barco's website.
2. Log in to the *Configurator*.
3. Click *Support & Updates* → *Firmware*.
4. To upload a firmware version, click on **Upload firmware...**

A browser window opens.

5. Browse to the file with the new firmware and click **Open** to start the upload.



**Note:** This should be an .enc file. You might have to unzip the file downloaded from Barco's website.



**Note:** Updating the software to the Base Unit takes several minutes. Progress can be followed on the meeting room display.

The Base Unit software is updated.



If a firmware downgrade is required on the Base Unit, check the check box in front of *Allow firmware downgrade*.

## Firmware update without using the Configurator

Next to using the configurator to upgrade the firmware, the following ways are also possible:

- When your device is connected to a network and managed via the XMS (Cloud) management platform or the Collaboration Management Suite (CMGS), the firmware can be upgrade via this Management solution. For more information on upgrading firmware in this way, consult Barco's web pages on XMS (<https://www.barco.com/en/page/xms-cloud-management-platform>) or CMGS (<https://www.barco.com/nl/product/collaboration-management-suite>).
- Download the firmware on a USB stick and plug in this USB in your device. For more information, see "Firmware update", page 108

## 6.37 Support & Updates, Troubleshoot, log settings

### About logging

Both Button and Base Unit log data is saved in log files on the Base Unit. These log files can contain debugging information. They can be downloaded on a local computer and cleared on the Base Unit. Debug logging covers only a few hours before it will be overwritten. Therefore, it is important if you discover a problem with your system to download the logging immediately.

### How to use

1. Log in to the *Configurator*.
2. Click *Support & Updates* → *Troubleshoot*.

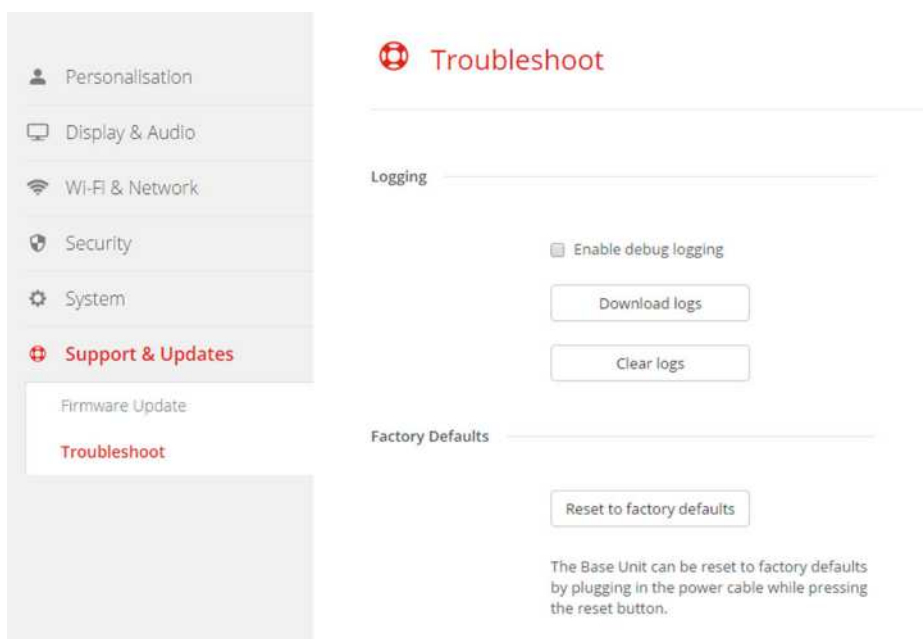


Image 6-58: Troubleshoot, logging

3. To create a debug log, check the check box next to *Enable debug logging*.
4. Reproduce the issue you want to report.
5. To download the current log file, click on **Download logs**.
6. To clear the current log file, click **Clear logs**.

## 6.38 Factory defaults

### About default settings

The ClickShare Base Unit can return to the factory default settings.

The following settings are the defaults:

- Meeting room identification info is cleared.
- Language is set to English.
- Custom wallpapers are removed and the default wallpaper is restored.
- Standby timer is reset to 10 min.
- Hostname and SSID is set to *clickshare-serialnumber*.
- The SSID is broadcasted
- WiFi password is reset to *clickshare*.
- The default WiFi channel is set back to frequency 5 GHz, channel 36.
- The update history is cleared.
- The table with the associated Buttons is cleared.
- The admin password is reset to *admin*.
- Debug logging and remote logging are disabled.



Restoring to factory defaults will require a repairing of the Buttons used with this Base Unit and the setup flow has to be redone..

### How to restore factory defaults

1. Log in to the *Configurator*.
2. Click *Support & Updates* → *Troubleshoot*.

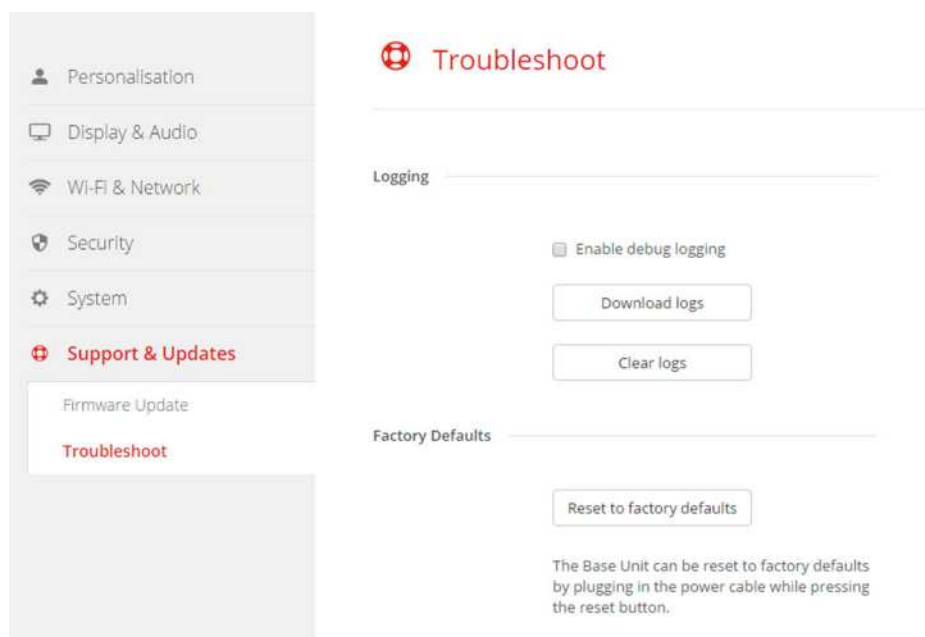


Image 6-59: Troubleshoot, factory defaults

3. Click **Reset to factory defaults**.

The following message is displayed: “This action will remove all settings of the Base Unit and replace them with the default settings. Are you sure you want to continue?”

4. If you want to continue, click **Yes, remove all settings** otherwise click **No, I changed my mind**.

When yes is clicked, the system starts a reboot.



Alternative way: The Base Unit can be reset to factory defaults by plugging in the power cable while pressing the reset button.



# Firmware updates

7

## 7.1 Firmware update



During the first startup of the unit and when there are 18 months passed after a last update, a typical wallpaper will be displayed which asks to update the unit.



Image 7-1

### About Firmware updates

There are different ways to update the Base Unit software:

- via the Configurator, for more information, see “*Firmware Update*”, page 102.
- automatic update when connected to the network together with the XMS or CMGS management solution.
- by copying the software on a USB stick.
- automatic update when connected in network together with the Collaboration Management Suite (only for CSE devices). For more information consult the Collaboration Management Suite’s user guide which can be downloaded from Barco’s website ( [www.barco.com/clickshare](http://www.barco.com/clickshare) ).

### To update the Base Unit software by copying the software on a USB stick

1. Download the latest version of the firmware from Barco’s website, [www.barco.com/clickshare](http://www.barco.com/clickshare). Click on **Support** and select the update firmware button of your device type.
2. Unzip the zip file.
3. Copy the ENC file to a USB stick.  
You can have multiple firmwares for multiple device types on the same stick.
4. Insert the USB stick into the USB port at the front of the Base Unit.
5. Follow the instructions on the meeting room screen.
6. When the on-screen message indicates that the process is finished, remove the USB stick.

The Base Unit reboots.

# Troubleshooting

# 8

## 8.1 Troubleshooting list

### Problem solving

Problem	Cause	Solution
Quality of the image on the meeting room display is not satisfactory	The quality or length of the cable between the Base Unit and the display or the connection between these two.	<ul style="list-style-type: none"> <li>• Replace the cable.</li> <li>• Use another cable.</li> </ul>
	Bad resolution of the display The system can handle the average laptop resolution of 3 Megapixel. However, up or down scaling on the meeting room display can cause visible artefacts.	Change the resolution on the web interface and match it to the native resolution of the meeting room display.
Users have a bad wireless connection. The connection from the Button to the Base Unit keeps falling away.	Wireless congestion	<ul style="list-style-type: none"> <li>• Use a WiFi scanner to find a free wireless channel and select it via the web interface. You can use commercial as well as free online tools such as inSSIDer or Xirrus for this. Refer to “WiFi settings”.</li> </ul>
	Low signal strength	<ul style="list-style-type: none"> <li>• Put the Base Unit closer to the meeting room table.</li> <li>• Change the orientation of the antennas at the back of the Base Unit.</li> <li>• Remove or limit as much as possible all obstructions between the Buttons and the Base Unit.</li> </ul>
Web interface is not accessible	Browser	<ul style="list-style-type: none"> <li>• Use another browser (version).</li> <li>• Check the browser settings.</li> </ul>
	No connection	<ul style="list-style-type: none"> <li>• There are three methods to access the web interface. Refer to the corresponding chapter of the documentation.</li> <li>• Check the proxy settings</li> </ul>
Users do not get a CSE-800 drive when inserting the Button in their laptop.	<ul style="list-style-type: none"> <li>• No automatic refresh of drives</li> <li>• Windows tries to assign the ClickShare drive to an already reserved drive letter</li> </ul>	<ul style="list-style-type: none"> <li>• Refresh your view on the laptop.</li> <li>• Use Microsoft Windows Disk Management to assign it to a free drive letter.</li> </ul>
	Bad connection at USB port on the laptop <ul style="list-style-type: none"> <li>• Some types of USB devices might be blocked as a company policy.</li> <li>• USB port settings on the laptop might limit the usage of high power USB devices when on battery power.</li> </ul>	<ul style="list-style-type: none"> <li>• Reconnect to the USB port.</li> <li>• Try another USB port.</li> <li>• Reboot the laptop.</li> </ul> <p>If possible, change the USB port policy on the laptop.</p>

Problem	Cause	Solution
Low video performance	Laptop performance	<ul style="list-style-type: none"> <li>• Lower the screen resolution of the laptop.</li> <li>• Disable the hardware acceleration for video.</li> <li>• Use only a part of the display to show the video.</li> <li>• Right click ClickShare icon in system tray and click on Capture mode to toggle the current setting..</li> </ul>
	Wireless connectivity	See "Users have bad connectivity"
Video is not shown on screen	Player uses overlays	Disable the usage of overlays in the preferences of the video player.
Some programs of Windows are not shown on the display	Use of overlays, 3D or hardware acceleration in the GPU	<ul style="list-style-type: none"> <li>• Disable overlays or hardware acceleration in the GPU.</li> <li>• Disable AeroGlass in Windows 7</li> <li>• Upgrade the Base Unit to the latest software version.</li> </ul>
When using Windows 7 the following message about the Windows Aero color scheme appears: "Windows has detected your computer's performance is slow. This could be because there are not enough resources to run the Windows Aero color scheme. To improve...".	ClickShare uses resources from the GPU. In combination with other programs which do so, Windows 7 sometimes shows this message suggesting to disable Aero to improve the performance of your laptop.	It is safe to ignore this message and choose 'Keep the current color scheme'.
Your screen is not shown on the display when pressing the Button	<p>In <b>extended</b> mode:</p> <p>Your the 9th person to try to connect. The other connections can be:</p> <ul style="list-style-type: none"> <li>• 8 buttons or</li> <li>• 7 buttons and 1 HDMI connection or</li> <li>• 6 buttons and 2 HDMI connections</li> </ul> <p>In <b>clone</b> mode:</p> <p>Your the 5th person to try to connect. The other connections can be:</p> <ul style="list-style-type: none"> <li>• 4 buttons or</li> <li>• 3 buttons and 1 HDMI connection or</li> <li>• 2 buttons and 2 HDMI connections</li> </ul> <p>The ClickShare software is not running.</p>	<p>Click and hold the button for 2 seconds to use the Show me full screen function.</p> <p>Go to the ClickShare drive and run the software.</p>
Your content is removed from the display and the LEDs on the button are blinking white	Connection to the Base Unit is lost.	ClickShare tries to restore the connection automatically. If it fails, the LEDs on the Button start blinking red.

Problem	Cause	Solution
Nothing is shown on the displays at all.	The displays are switched off.	Switch on the displays.
	The display cable is not correctly connected	Insert the display cable to the display and the Base Unit.
	The display does not recognize or is not able to display the Base Unit output resolution.	Change the corresponding setting via the web interface.
	The Base Unit is in standby mode	Briefly push the standby button on the Base Unit or insert a button and run the ClickShare software.
Bad WiFi connectivity	Congestion of the wireless channel	Use wireless network scan tools to look for free or the least congested channels.
	Metal cabinets, walls, construction elements, ... can cause reflections deteriorating the wireless signal.	Move the Base Unit to another place in the room.
	Obstructions between Buttons and Base Unit cause lowering of the wireless strength and quality.	Avoid placing it inside cabinets, false ceiling, below the table, behind a wall, in another room, ....
		Re-orient the Base Unit antennas Check out the ClickShare White paper on WiFi See <a href="http://www.barco.com/clickshare">www.barco.com/clickshare</a> .
Web Interface shows error in the processes "WiFi Access Point Daemon" and/or "DHCP Server"	Configuration file is corrupted	Browse to the Configuration tab on the Web Interface and press "Load Default Settings".
ClickShare Base Unit does not start up correctly	Configuration file is corrupted	Browse to the Configuration tab of the Web Interface and press "Load Default Settings".
No LAN connection with the Base Unit	Wrong IP address	IP address is not within your LAN range.
		DHCP is not enabled.
No WiFi connection with Base Unit	SSID not correct	Enter the correct SSID

Locate the problem you are experiencing in the table below and apply the solution.

# Environmental information

# 9

## 9.1 Disposal information

### Disposal Information

Waste Electrical and Electronic Equipment



■ This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service.

For details, please visit the Barco website at: <http://www.barco.com/AboutBarco/weee>

### Disposal of batteries in the product



This product contains batteries covered by the Directive 2006/66/EC which must be collected and disposed of separately from municipal waste.

If the battery contains more than the specified values of lead (Pb), mercury (Hg) or cadmium (Cd), these chemical symbols will appear below the crossed-out wheeled bin symbol.

By participating in separate collection of batteries, you will help to ensure proper disposal and to prevent potential negative effects on the environment and human health.

## 9.2 Rohs compliance

### Turkey RoHS compliance



■ Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.

[Republic of Turkey: In conformity with the WEEE Regulation]

### 中国大陆 RoHS – Chinese Mainland RoHS

根据中国大陆《电器电子产品有害物质限制使用管理办法》（也称为中国大陆RoHS），以下部分列出了Barco产品中可能包含的有毒和/或有害物质的名称和含量。中国大陆RoHS指令包含在中国信息产业部MCV标准：“电子信息产品中有毒物质的限量要求”中。

According to the “Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products” (Also called RoHS of Chinese Mainland), the table below lists the names and contents of toxic and/or hazardous substances that Barco's product may contain. The RoHS of Chinese Mainland is included in the MCV standard of the Ministry of Information Industry of China, in the section “Limit Requirements of toxic substances in Electronic Information Products”.

零件项目(名称) 有毒有害物质或元素

Component Name Hazardous Substances or Elements

	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印制电路配件	x	0	0	0	0	0

Printed Circuit Assemblies						
电(线)缆	x	O	O	O	O	O
Cables						
底架	x	O	O	O	O	O
Chassis						
电源供应器	x	O	O	O	O	O
Power Supply Unit						
文件说明书	O	O	O	O	O	O
Paper Manuals						

本表格依据SJ/T 11364的规定编制

This table is prepared in accordance with the provisions of SJ/T 11364.

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下.

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in GB/T 26572.

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 标准规定的限量要求.

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in GB/T 26572.

在中国大陆销售的相应电子信息产品（EIP）都必须遵照中国大陆《电子电气产品有害物质限制使用标识要求》标准贴上环保使用期限（EFUP）标签。Barco产品所采用的EFUP标签（请参阅实例，徽标内部的编号用于指定产品）基于中国大陆的《电子信息产品环保使用期限通则》标准。

All Electronic Information Products (EIP) that are sold within Chinese Mainland must comply with the “Marking for the restriction of the use of hazardous substances in electrical and electronic product” of Chinese Mainland, marked with the Environmental Friendly Use Period (EFUP) logo. The number inside the EFUP logo that Barco uses (please refer to the photo) is based on the “General guidelines of environment-friendly use period of electronic information products” of Chinese Mainland.



Image 9-1

## 限用物質含有情況標示聲明書 (Declaration of the Presence Condition of the Restricted Substances Marking) — Taiwan RoHS compliance

設備名稱： 影音共享控制中心， 型號 ( 型式 )： CSE-800

Equipment name: wireless presentation system, Type designation: CSE-800

限用物質及其化學符號

Restricted substances and its chemical symbols

單元 Unit	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr6+)	多溴聯苯 Poly- brominated biphenyl (PBB)	多溴二苯醚 Poly- brominated diphenyl ethers (PBDE)
印製電路板配件 Printed Circuit Assemblies	—	○	○	○	○	○
電 ( 線 ) 纜 Cables	—	○	○	○	○	○
機箱 Chassis	—	○	○	○	○	○
電源供應器 Power Supply Unit	—	○	○	○	○	○

備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。

Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “—” 係指該項限用物質為排除項目。

Note 3 : The “—” indicates that the restricted substance corresponds to the exemption.

## 9.3 Importers contact information

### Contact

To find your local importer, contact Barco directly or one of Barco's regional offices via the contact information given on Barco's web site, [www.barco.com](http://www.barco.com).

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Registered office: Barco NV | President Kennedypark 35, 8500 Kortrijk, Belgium  
Barco NV | Beneluxpark 21, 8500 Kortrijk, Belgium  
[www.barco.com](http://www.barco.com)