

Installation manual



**ENABLING BRIGHT OUTCOMES** 

Barco NV Beneluxpark 21, 8500 Kortrijk, Belgium www.barco.com/en/support www.barco.com

Registered office: Barco NV President Kennedypark 35, 8500 Kortrijk, Belgium www.barco.com/en/support www.barco.com

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#### 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).

<sup>1:</sup> 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.

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

#### Retention of data

Barco right to use and retain Functional Information (section 10.2 of the EULA) shall survive the term of this EULA.

### Barco ClickShare Product Specific Privacy policy

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

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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	1.1.7	ftp://ftp.alsa-project.org/pub/lib	
alsa-plugins	1.1.1	ftp://ftp.alsa-project.org/pub/plugins	
alsa-utils	1.1.7	ftp://ftp.alsa-project.org/pub/utils	
arphic-uming- fonts	20080216	http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming	
avahi	0.7	https://github.com/lathiat/avahi/releases/download/v0.7	
bellagio	0.9.3	http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3	

PACKAGE	VERSION	SOURCE_SITE	
bitstream	1,4	https://get.videolan.org/bitstream/1.4	
bluez5_utils	5.50	https://cdn.kernel.org/pub/linux/bluetooth	
bluez5_utils- headers	5.50	https://cdn.kernel.org/pub/linux/bluetooth	
bridge-utils	1.6	https://cdn.kernel.org/pub/linux/utils/net/bridge-utils	
busybox	1.29.3	http://www.busybox.net/downloads	
bzip2	1.0.8	https://sourceware.org/pub/bzip2	
c-ares	1.15.0	https://c-ares.haxx.se/download	
ca-certificates	20190110	http://snapshot.debian.org/archive/debian/20190513T145054Z/pool/ main/c/ca-certificates	
collectd	5.7.2	http://collectd.org/files	
crda	4,14	https://git.kernel.org/pub/scm/linux/kernel/git/mcgrof/crda.git/snapshot	
cryptsetup	2.0.6	https://cdn.kernel.org/pub/linux/utils/cryptsetup/v2.0	
dbus	1.12.16	http://dbus.freedesktop.org/releases/dbus	
dejavu-fonts	2.34	http://downloads.sourceforge.net/project/dejavu/dejavu/2.34	
devmem2	1	http://bootlin.com/pub/mirror	
dhcp	4.3.6	http://ftp.isc.org/isc/dhcp/4.3.6	
dnsmasq	2.79	http://thekelleys.org.uk/dnsmasq	
dosfstools	4.1	https://github.com/dosfstools/dosfstools/releases/download/v4.1	
dropbear	2018.76	http://matt.ucc.asn.au/dropbear/releases	
dvblast	3.4	https://get.videolan.org/dvblast/3.4	
e2fsprogs	1.44.5	https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.44.5	
efibootmgr	15	https://github.com/rhboot/efibootmgr/archive/15	
efitools	v1.7.0	git://git.kernel.org/pub/scm/linux/kernel/git/jejb/efitools.git	
efivar	35	https://github.com/rhboot/efivar/archive/35	
elfutils	0.176	https://sourceware.org/elfutils/ftp/0.176	
eudev	3.2.7	http://dev.gentoo.org/~blueness/eudev	
expat	2.2.7	http://downloads.sourceforge.net/project/expat/expat/2.2.7	
faad2	2.8.8	http://downloads.sourceforge.net/project/faac/faad2-src/faad2-2.8.0	
fbset	2.1	http://users.telenet.be/geertu/Linux/fbdev	
fbv	1.0b	http://s-tech.elsat.net.pl/fbv	
ffmpeg	3.4.6	http://ffmpeg.org/releases	
file	5.36	ftp://ftp.astron.com/pub/file	
flashrom	1.0	http://download.flashrom.org/releases	
flex	2.6.4	https://github.com/westes/flex/files/981163	

PACKAGE	VERSION	SOURCE_SITE	
fontconfig	2.13.1	http://fontconfig.org/release	
freetype	2.9.1	http://download.savannah.gnu.org/releases/freetype	
gdb	8.1.1	http://ftpmirror.gnu.org/gdb	
giflib	5.1.4	http://downloads.sourceforge.net/project/giflib	
gnu-efi	3.0.9	http://downloads.sourceforge.net/project/gnu-efi	
gnupg2	2.2.17	https://gnupg.org/ftp/gcrypt/gnupg	
grub	2.02-beta2	https://github.com/coreos/grub/releases	
gst1-libav	1.14.4	http://gstreamer.freedesktop.org/src/gst-libav	
gst1-plugins- bad	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-bad	
gst1-plugins- base	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-base	
gst1-plugins- good	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-good	
gst1-vaapi	1.14.4	https://gstreamer.freedesktop.org/src/gstreamer-vaapi	
gstreamer1	1.14.4	https://gstreamer.freedesktop.org/src/gstreamer	
gzip	1.9	http://ftpmirror.gnu.org/gzip	
hostapd	40e2dcfdf4- e27191d4fb9e- dc6c10337868- b90acf	https://source.codeaurora.org/quic/la/platform/external/wpa_supplicant_ 8	
htop	2.2.0	http://hisham.hm/htop/releases/2.2.0	
i2c-tools	4.1	https://www.kernel.org/pub/software/utils/i2c-tools	
ibmswtpm	4769	http://ibmswtpm.sourceforge.net/	
icu	60.2	http://download.icu-project.org/files/icu4c/60.2	
iperf	2.0.13	http://downloads.sourceforge.net/project/iperf2	
iproute2	4.19.0	https://cdn.kernel.org/pub/linux/utils/net/iproute2	
iptables	1.8.2	http://ftp.netfilter.org/pub/iptables/files	
iw	4.14	https://cdn.kernel.org/pub/software/network/iw	
jansson	2.12	http://www.digip.org/jansson/releases	
jose	10	https://github.com/latchset/jose/releases/download/v10	
jpeg-turbo	2.0.1	http://downloads.sourceforge.net/project/libjpeg-turbo/2.0.1	
json-c	0.13.1	https://s3.amazonaws.com/json-c_releases/releases	
jsoncpp	1.8.4	https://github.com/open-source-parsers/jsoncpp/archive/1.8.4	
kmod	25	https://cdn.kernel.org/pub/linux/utils/kernel/kmod	
libaio	0.3.111	https://releases.pagure.org/libaio	
libarchive	3.3.3	http://www.libarchive.org/downloads	

PACKAGE	VERSION	SOURCE_SITE
libassuan	2.5.2	ftp://ftp.gnupg.org/gcrypt/libassuan
libbsd	0.10.0	https://libbsd.freedesktop.org/releases
libconfig	v1.7.2	http://www.hyperrealm.com/libconfig/archive/v1.7.2
libcurl	7.65.3	https://curl.haxx.se/download
libdaemon	0.14	http://0pointer.de/lennart/projects/libdaemon
libdri2	4f1eef3183df2- b270c3d5cbe- f07343ee5127- a6a4	https://github.com/robclark/libdri2/archive/ 4f1eef3183df2b270c3d5cbef07343ee5127a6a4
libdrm	2.4.97	http://dri.freedesktop.org/libdrm
libedit	20180525-3.1	http://www.thrysoee.dk/editline
libepoxy	1.5.2	http://ftp.gnome.org/pub/gnome/sources/libepoxy/1.5
libestr	0.1.10	http://libestr.adiscon.com/files/download
libev	4.24	http://dist.schmorp.de/libev/Attic
libevdev	1.6.0	http://www.freedesktop.org/software/libevdev
libevent	2.1.8-stable	https://github.com/libevent/libevent/releases/download/release-2.1.8- stable
libfastjson	v0.99.8	https://github.com/rsyslog/libfastjson/archive/v0.99.8
libffi	v3.3-rc0	https://github.com/libffi/libffi/archive/v3.3-rc0
libgcrypt	1.8.4	https://gnupg.org/ftp/gcrypt/libgcrypt
libglib2	2.56.4	http://ftp.gnome.org/pub/gnome/sources/glib/2.56
libgpg-error	1.33	ftp://ftp.gnupg.org/gcrypt/libgpg-error
libhttpparser	v2.9.0	https://github.com/nodejs/http-parser/archive/v2.9.0
libical	1.0.1	https://github.com/libical/libical/releases/download/v1.0.1
libksba	1.3.5	ftp://ftp.gnupg.org/gcrypt/libksba
liblogging	1.0.6	http://download.rsyslog.com/liblogging
libnl	3.4.0	https://github.com/thom311/libnl/releases/download/libnl3_4_0
libnpth	1.6	https://www.gnupg.org/ftp/gcrypt/npth
libnspr	4.20	https://ftp.mozilla.org/pub/mozilla.org/nspr/releases/v4.20/src
libnss	3.42.1	https://ftp.mozilla.org/pub/mozilla.org/security/nss/releases/NSS_3_42_ 1_RTM/src
libogg	1.3.3	http://downloads.xiph.org/releases/ogg
libopenssl	1.1.1c	https://www.openssl.org/source
libopusenc	0.2.1	https://downloads.xiph.org/releases/opus
libpcap	1.9.0	http://www.tcpdump.org/release
libpciaccess	0.14	http://xorg.freedesktop.org/releases/individual/lib

PACKAGE	VERSION	SOURCE_SITE	
libpng	1.6.37	http://downloads.sourceforge.net/project/libpng/libpng16/1.6.37	
libpthread- stubs	0,4	http://xcb.freedesktop.org/dist	
libqrencode	4.0.0	http://fukuchi.org/works/qrencode	
libresample	0.1.3	ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample	
libsamplerate	0.1.9	http://www.mega-nerd.com/SRC	
libselinux	2.8	https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/ releases/20180524	
libsepol	2.8	https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/ releases/20180524	
libsha1	0.3	https://github.com/dottedmag/libsha1/archive/0.3	
libsndfile	1.0.28	http://www.mega-nerd.com/libsndfile/files	
libtool	2.4.6	http://ftpmirror.gnu.org/libtool	
libusb	1.0.22	https://github.com/libusb/libusb/releases/download/v1.0.22	
libusb-compat	0.1.5	http://downloads.sourceforge.net/project/libusb/libusb-compat-0.1/ libusb-compat-0.1.5	
libuv	v1.25.0	https://github.com/libuv/libuv/archive/v1.25.0	
libv4l	1.16.3	http://linuxtv.org/downloads/v4l-utils	
libva	2.4.0	https://github.com/intel/libva/releases/download/2.4.0	
libvdpau	1.1.1	http://people.freedesktop.org/~aplattner/vdpau	
libvorbis	1.3.6	http://downloads.xiph.org/releases/vorbis	
libvpx	v1.7.0	https://github.com/webmproject/libvpx/archive/v1.7.0	
libxcb	1.13.1	http://xcb.freedesktop.org/dist	
libxkbcommon	0.8.2	http://xkbcommon.org/download	
libxml2	2.9.9	ftp://xmlsoft.org/sources	
libyaml	0.2.1	http://pyyaml.org/download/libyaml	
libzip	1.5.1	http://www.nih.at/libzip	
libzlib	1.2.11	http://zlib.net/	
lighttpd	1.4.53	http://download.lighttpd.net/lighttpd/releases-1.4.x	
linux	V4.9.181	https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/	
linux-firmware	unknown	http://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git	
linux-pam	1.3.1	https://github.com/linux-pam/linux-pam/releases/download/v1.3.1	
llvm	7.0.1	http://llvm.org/releases/7.0.1	
Im-sensors	V3-5-0	https://github.com/Im-sensors/Im-sensors/archive/V3-5-0	
logrotate	3.13.0	https://github.com/logrotate/logrotate/archive/3.13.0	
lvm2	2.02.183	ftp://sources.redhat.com/pub/lvm2	

PACKAGE	VERSION	SOURCE_SITE	
memtester	4.3.0	http://pyropus.ca/software/memtester/old-versions	
mesa3d	18.3.6	https://mesa.freedesktop.org/archive	
microstack	0.0.69	www.meshcommander.com/upnptools	
monit	5.25.3	http://mmonit.com/monit/dist	
mtdev	1.1.4	http://bitmath.org/code/mtdev	
ncurses	6.1	http://ftpmirror.gnu.org/ncurses	
netcat	0.7.1	http://downloads.sourceforge.net/project/netcat/netcat/0.7.1	
netsnmp	5,8	http://downloads.sourceforge.net/project/net-snmp/net-snmp/5.8	
nodejs	8.15.1	http://nodejs.org/dist/v8.15.1	
ntp	4.2.8p13	https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2	
opkg	0.3.6	http://downloads.yoctoproject.org/releases/opkg	
opus	1.3.1	http://downloads.xiph.org/releases/opus	
opusfile	0,11	http://downloads.xiph.org/releases/opus	
opus-tools	0,2	http://downloads.xiph.org/releases/opus	
parted	3.2	http://ftpmirror.gnu.org/parted	
pciutils	3.5.5	https://cdn.kernel.org/pub/software/utils/pciutils	
pcre2	10,32	https://ftp.pcre.org/pub/pcre	
pcre	8.42	https://ftp.pcre.org/pub/pcre	
php	7.3.9	http://www.php.net/distributions	
pixman	0.34.0	http://xorg.freedesktop.org/releases/individual/lib	
popt	1.16	http://rpm5.org/files/popt	
portaudio	v190600_ 20161030	http://www.portaudio.com/archives	
powertop	2.9	https://01.org/sites/default/files/downloads/powertop	
protobuf	v2.6.1	https://github.com/google/protobuf/archive/v2.6.1	
python3	3.7.4	http://python.org/ftp/python/3.7.4	
python-pyyaml	4.2b4	https://files.pythonhosted.org/packages/a8/c6/ a8d1555e795dbd0375c3c93b576ca13bbf139db51ea604a- fa19a2c35fc03	
python-serial	3.4	https://files.pythonhosted.org/packages/cc/74/ 11b04703ec416717b247d789103277269d567db575d2fd88f25d9767f- e3d	
qca6174a	CNSS.LEA. NRT_1.0	https://source.codeaurora.org/external/wlan/qcacld-2.0/	
qca93777	CNSS.LEA. NRT_1.0	https://source.codeaurora.org/external/wlan/qcacld-2.0/	
qt5base	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	

PACKAGE	VERSION	SOURCE_SITE	
qt5declarative	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5graphica- leffects	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5imagefor- mats	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5multimedia	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5quickcon- trols	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5quickcon- trols2	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5serialport	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5svg	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5webchan- nel	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5webengine	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5websock- ets	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5x11extras	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
qt5xmlpatterns	5.12.4	https://download.qt.io/official_releases/qt/5.12/5.12.4/submodules	
ramspeed	2.6.0	http://www.alasir.com/software/ramspeed	
readline	8.0	http://ftpmirror.gnu.org/readline	
rsync	3.1.3	http://rsync.samba.org/ftp/rsync/src	
rsyslog	8.22.0	http://rsyslog.com/files/download/rsyslog	
sazanami- fonts	20040629	http://sourceforge.jp/projects/efont/downloads/10087	
sscep	0.6.1	https://github.com/certnanny/sscep	
speex	1.2.0	https://downloads.xiph.org/releases/speex	
splashutils	1.5.4.4	http://dev.gentoo.org/~spock/projects/gensplash/archive	
sqlite	3280000	http://www.sqlite.org/2019	
strace	4.26	https://strace.io/files/4.26	
tar	1.29	http://ftpmirror.gnu.org/tar	
tcpdump	4.9.2	http://www.tcpdump.org/release	
tpm-tools	1.3.9.1	http://downloads.sourceforge.net/project/trousers/tpm-tools/1.3.9.1	
trousers	0.3.14	http://downloads.sourceforge.net/project/trousers/trousers/0.3.14	
tzdata	2018e	http://www.iana.org/time-zones/repository/releases	
unfonts	1.0	http://kldp.net/frs/download.php/1425	
unzip	60	ftp://ftp.info-zip.org/pub/infozip/src	
usbutils	010	https://cdn.kernel.org/pub/linux/utils/usb/usbutils	

PACKAGE	VERSION	SOURCE_SITE	
util-linux	2.33	https://cdn.kernel.org/pub/linux/utils/util-linux/v2.33	
webp	1.0.1	http://downloads.webmproject.org/releases/webp	
wireless_tools	30.pre9	https://hewlettpackard.github.io/wireless-tools	
wireless-regdb	2019.06.03	https://cdn.kernel.org/pub/software/network/wireless-regdb	
wpa_ supplicant	40e2dcfdf4- e27191d4fb9e- dc6c10337868- b90acf	https://source.codeaurora.org/quic/la/platform/external/wpa_supplicant_ 8	
xapp_ beforelight	1.0.5	http://xorg.freedesktop.org/releases/individual/app	
xapp_xauth	1.0.10	http://xorg.freedesktop.org/releases/individual/app	
xapp_xclock	1.0.7	http://xorg.freedesktop.org/releases/individual/app	
xapp_xinit	1.4.0	http://xorg.freedesktop.org/releases/individual/app	
xapp_xinput	1.6.2	http://xorg.freedesktop.org/releases/individual/app	
xapp_xinput- calibrator	0.7.5	http://github.com/downloads/tias/xinput_calibrator	
xapp_ xkbcomp	1.4.2	http://xorg.freedesktop.org/releases/individual/app	
xapp_xrandr	1.5.0	http://xorg.freedesktop.org/releases/individual/app	
xcb-proto	1.13	http://xcb.freedesktop.org/dist	
xcb-util	0.4.0	http://xcb.freedesktop.org/dist	
xcb-util-image	0.4.0	http://xcb.freedesktop.org/dist	
xcb-util- keysyms	0.4.0	http://xcb.freedesktop.org/dist	
xcb-util-wm	0.4.1	http://xcb.freedesktop.org/dist	
xdata_ xbitmaps	1.1.2	http://xorg.freedesktop.org/releases/individual/data	
xdriver_xf86- input-evdev	2.10.5	http://xorg.freedesktop.org/releases/individual/driver	
xdriver_xf86- video-amdgpu	18.1.0	http://xorg.freedesktop.org/releases/individual/driver	
xfont_ encodings	1.0.4	http://xorg.freedesktop.org/releases/individual/font	
xfont_font- alias	1.0.3	http://xorg.freedesktop.org/releases/individual/font	
xfont_font- cursor-misc	1.0.3	http://xorg.freedesktop.org/releases/individual/font	
xfont_font- misc-misc	1.1.2	http://xorg.freedesktop.org/releases/individual/font	
xfont_font-util	1.3.2	http://xorg.freedesktop.org/releases/individual/font	

PACKAGE	VERSION	SOURCE_SITE
xkeyboard- config	2.23.1	http://www.x.org/releases/individual/data/xkeyboard-config
xlib_libfontenc	1.1.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libICE	1.0.10	http://xorg.freedesktop.org/releases/individual/lib
xlib_libSM	1.2.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libX11	1.6.7	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXau	1.0.8	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXaw	1.0.13	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libXcomposite	0.4.4	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXcursor	1.1.15	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libXdamage	1.1.4	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXdmcp	1.1.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXext	1.3.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXfixes	5.0.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXfont2	2.0.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXft	2.3.2	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXi	1.7.9	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libXinerama	1.1.4	http://xorg.freedesktop.org/releases/individual/lib
xlib_libxkbfile	1.0.9	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXmu	1.1.2	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXpm	3.5.12	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXrandr	1.5.1	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libXrender	0.9.10	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXres	1.2.0	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libXScrnSaver	1.2.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libxshmfence	1.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXt	1.1.5	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXtst	1.2.3	http://xorg.freedesktop.org/releases/individual/lib
xlib_libXv	1.0.11	http://xorg.freedesktop.org/releases/individual/lib
xlib_ libXxf86vm	1.1.4	http://xorg.freedesktop.org/releases/individual/lib
xlib_xtrans	1.3.5	http://xorg.freedesktop.org/releases/individual/lib

PACKAGE	VERSION	SOURCE_SITE
xorgproto	2018.4	http://xorg.freedesktop.org/releases/individual/proto
xserver_xorg- server	1.20.5	https://xorg.freedesktop.org/archive/individual/xserver
xterm	327	http://invisible-mirror.net/archives/xterm
xutil_util- macros	1.19.2	http://xorg.freedesktop.org/releases/individual/util
zip	30	ftp://ftp.info-zip.org/pub/infozip/src
zlib	1.2.11	http://www.zlib.net
angular	7.2.0	https://github.com/angular/angular.git
bcrypt	3.0.6	https://github.com/kelektiv/node.bcrypt.js
bcryptjs	2.4.3	https://github.com/dcodeIO/bcrypt.js
body-parser	1.18.3	https://github.com/expressjs/body-parser
bootstrap	4.3.1	https://getbootstrap.com/
bunyan	1.8.12	https://github.com/trentm/node-bunyan
bunyan- prettystream	0.1.3	https://github.com/trentm/node-bunyan
bunyan-syslog	0.3.2	https://github.com/trentm/node-bunyan
chromedriver	77.0.0	https://github.com/giggio/node-chromedriver
Core-js	2.5.4	https://github.com/zloirock/core-js
cors	2.8.5	https://github.com/expressjs/cors
dbus-native	0.4.0	https://github.com/sidorares/dbus-native
express	4.16.4	https://github.com/expressjs/express
generate- password	1.4.2	https://github.com/brendanashworth/generate-password
inversify	5.0.1	http://inversify.io/
jquery	3.4.1	https://jquery.com/
js-yaml	3.12.0	https://github.com/nodeca/js-yaml
moment	2.24.0	http://momentjs.com/
morgan	1.9.1	https://github.com/expressjs/morgan
multer	1.4.1	https://github.com/expressjs/multer
ngx-cookie- service	2.2.0	https://github.com/7leads/ngx-cookie-service
npm	6.10.2	https://docs.npmjs.com/
passport	0.4.0	http://github.com/jaredhanson/passport
passport-http	0.3.0	http://github.com/jaredhanson/passport-http
popper.js	1.15.0	https://popper.js.org/

PACKAGE	VERSION	SOURCE_SITE
reflect- metadata	0.1.13	http://rbuckton.github.io/reflect-metadata
rxjs	6.3.3	https://github.com/ReactiveX/RxJS
swagger- parser	6.0.5	https://github.com/APIDevTools/swagger-parser
swagger-ui- express	4.0.1	https://github.com/scottie1984/swagger-ui-express
tslib	1.9.0	http://typescriptlang.org/
WS	7.1.1	https://github.com/websockets/ws
zone.js	0.8.26	https://github.com/angular/angular
azure-iot-c- sdk	0.3.0	https://github.com/Azure/azure-iot-sdk-c/
NXP SDK	2.5.0	https://www.nxp.com/support/developer-resources/software- development-tools/mcuxpresso-software-and-tools/mcuxpresso- software-development-kit-sdk:MCUXpresso-SDK?tab=Design_Tools_ Tab
unlz4	-	https://github.com/lz4/lz4/blob/dev/lib/lz4.h
ring-buff	-	https://code.google.com/archive/p/ring-buff/
wpa_ supplicant	2.6	http://w1.fi/wpa_supplicant/

### 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.
- 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-R9861521

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

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

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

### 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-R9861521

Button IC (model R9861600D01C): 21559-R9861600D01

### IC Antenna statement

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

This radio transmitter 21559-R9861521 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

### Indoor use only warning

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

### **Certification information (SAR)**

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

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

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

### 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-R9861521
- IC Button (model R9861600D01C): 21559-R9861600D01

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

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

Le présent émetteur radio 21559-R9861521 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

### Utilisation à l'intérieur seulement

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

### Informations de certification (DAS)

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

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

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

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# Introduction to the Installation Guide

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### **1.1 Documentation**

### About the documentation

This installation guide explains how to install your CX-50 in a meeting room, It explains also how to make everything operational. It provides detailed information on how to configure your CX-50.

### **Available System documentation**

Next to the installation manual, a user guide, a safety guide, an API guide and a service manual are available on Barco's website, <u>www.barco.com/clickshare</u>.

A printed copy of the Safety Guide is included in the CX-50 box at purchase.

Depending on the CX-50 version, some graphics might be different to the ones used in this manual. This however does not have any effect on the functionality.

### **1.2 Symbols and fonts**

### Symbol overview

The following icons are used in the manual :

<u> </u>	Caution
4	Warning
0	Info, term definition. General info about the term
	Note: gives extra information about the described subject
T	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.

## CX-50 Specifications

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### 2.1 About the CX-50

### CX-50 sets

With the Conferencing Button, in seconds, you are automatically connected to cameras, mics, soundbars and any other AV peripherals in the room for a better, more immersive meeting experience. Everything becomes part of your laptop.

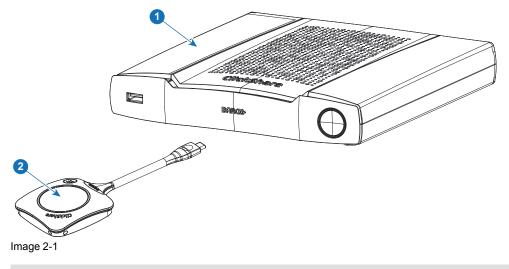
This CX-50 not only helps the presenter get the presentation on-screen in a second, but it also allows the other people in the conference to participate more actively. The result is enhanced meeting efficiency and better decision-making.

The set is compatible with any laptop, desktop tablet or smartphone OS. It works with most conferencing platforms and connects instantly with most brands of peripherals (speakers, microphones, webcams, soundbars) when using the Conferencing Button.

At the moment 6 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 CX-50 set

A standard CX-50 set consists of a Base Unit and 2 Conference Buttons. Depending on the location where you buy the product, the software of the Base Unit is different. If needed, you can buy additional Conferencing Buttons and a tray to store the Buttons.



1 Base unit	
-------------	--

2 Conferencing Button<sup>2</sup>

### Accessories included

Depending on the country where you buy the product, the following regionalized accessories are also included in the CX-50 box.

### **Products**

#### Contains

R9861522xx<sup>3</sup>

- R9861522
- 2x R9861600D01C4

#### **Accessories included**

- DC adapter with regional depending power cord
- Printed safety manual

#### R9861600D01C4

1x R9861600D01C4

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

<sup>2:</sup> Futher called Button

<sup>3:</sup> xx=EU, NA, US, CN, RW, ZH,

<sup>4:</sup> For US, R9861600D01CUS

### 2.2 CX-50 specifications

### Base Unit

Dimensions (HxWxD)	39mm x 200mm x 202mm
Power supply	Standard 110/220 V AC plug
Power consumption	Operational: 50W (max) Standby: <8W (networked standby), < 0.5W (deep standby mode)
Weight	900 gr
Operating system	Windows 8/8.1/10. macOS 10.13 and higher. Android v9 and higher (ClickShare app). iOS 12 and higher (ClickShare app)
Video outputs	4K UHD (3840*2160) @ 30Hz. HDMI 1.4b
Video inputs	1920x1080 @30Hz. HDMI 1.4b
Audio output	USB, SPDIF, jack, HDMI
USB	3 X USB-A, 1 X USB-C
ClickShare Buttons	2
ClickShare App	Desktop & Mobile
Native protocols	Airplay, Google Cast, Miracast
Noise Level	Max. 25dBA @ 0-30°C Max. 30dBA @ 30-40°C
Authentication protocol	WPA2-PSK in stand alone mode WPA2-PSK or IEEE 802.1X using the ClickShare Button in network integration mode
Wireless transmission protocol	IEEE 802.11 a/g/n/ac and IEEE 802.15.1
Reach	Adjustable with signal strength modulation; max. 30m (100 ft) between ClickShare Button and ClickShare Base Unit Frequency band 2.4 GHZ and 5 GHz (DFS)
Frequency band	2.4 GHZ and 5 GHz (DFS channels supported in select number of countries)
Connections	1x Ethernet LAN 1Gbit 1x USB Type-C 2.0 (back); 2x USB Type A 2.0 (back); 1x USB Type A 2.0 (front) Audio analog line out on mini jack socket (3.5mm), digital S/PDIF
Temperature range	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)
Humidity	Storage: 0 to 90% relative humidity, non-condensing Operation: 0 to 85% relative humidity, non-condensing
Anti-theft system	Kensington lock
Certifications	FCC/CE

Touch screen support & Interactivity	Yes*
Room Dock (peripheral support)	High quality
Local view & moderation	High quality*
Network connection	LAN & WiFi (dual)*
Management and reporting	Yes
Warranty	1 year standard. 5 years coverage via SmartCare
*	* available in future firmware updates

### 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. Furthermore, a touch screen, USB camera and USB speakerphone can be connected to the Base Unit.

The Base Unit can be installed in two different ways.

### **Base Unit functionality**

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. Furthermore, it will send out the content from the camera and/or the speakerphone towards the Button.

The Base Unit can be inside a cabinet in the meeting room, or put on the meeting room table or mounted on a wall. Check the Installation Guide for instructions on how to install the Base Unit.

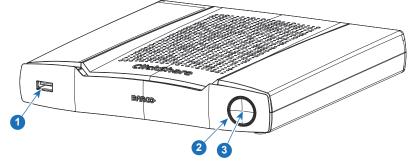


Image 2-2

- 1 USB Type-A port
- 2 Status LED ring
- 3 Standby Button

### **USB** Port

The USB port is used to pair the Button to the Base Unit and to update the software of both the Base Unit and the Buttons and to connect a touch screen, USB camera or USB speakerphone to the Base Unit.

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

Use a convertor to connect a Button with an USB Type-C<sup>™</sup> connector to front USB port of the Base Unit. USB Type-C<sup>™</sup> port available at the backside.

### Status LED ring

The color of the LED ring around the power button of the Base Unit give information on the status of the system.

LEDs behavior	Explanation
static red	<ul> <li>receiving content from the Buttons and streaming towards the display.</li> <li>during the first phase of the Base Unit boot process.</li> </ul>
blinking white	<ul> <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	ECO standby mode
static white	<ul> <li>awake and ready (i.e. showing the welcome message on the display)</li> <li>pairing and software update of the Button is done, you can now unplug the Button from the Base Unit</li> </ul>
red blinking	an error occurred
dark	deep standby/off

### **Power 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 into a pre-defined standby mode.
- When the system is in standby, a push triggers the system to start up and it goes into normal operational mode.

### Back layout of the Base Unit

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

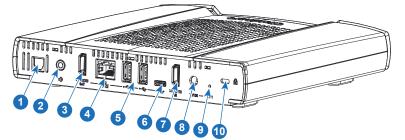


Image 2-3: Backside Base Unit

1	Digital Audio out
2	Analog Audio out
3	HDMI out
4	LAN Ethernet connection
5	USB Type-A port (USB 2.0)
6	USB Type-C™ port (USB 2.0)
7	HDMI in
8	Power connection
9	Reset
10	Kensington lock

**CX-50** Specifications

### **Mechanical fixture points**

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

### Antenna

The antenna is built-in in the CX-50.

### 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 ..."



# **Getting started**

3.1	Environmental Condition Check	30
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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 CX-50

1. Unpack the ClickShare components and accessories from the box.

For a detailed overview of the content of the CX-50 box, see "About the CX-50", page 24.

- 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 32
- 3. Connect the video signal between the Base Unit and the display, see "Video signal connections to the Base unit", page 35.
- 4. Connect audio devices via USB, jack or SPDIF if any to the Base Unit, see "*Content Audio connection*", page 36 or see "*Echo Canceling Speakerphone audio connection*", page 37.
- 5. Connect USB camera to Base Unit if any, see "Camera connection", page 36
- Connect the Base Unit to the mains power.
   For more information see "Power connection", page 38,
- 7. Connect a network cable between the Base Unit and the local network (make sure the Base Unit is connected to the internet to be able to reach the update server )
- 8. Register you device, online or offline.



For more information on using CX-50, refer to the CX-50 User Guide. This manual can be found on Barco's website <u>www.barco.com/clickshare</u>.

# 4

# **CX-50 Installation**

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### 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.



Make sure not to install the Base Unit in a metal enclosure.

### **Physical installation**

The Base unit can be installed in different ways in a meeting room.

- Table mount
- Wall mount

A Kensington lock is foreseen on one side of the Base Unit.



WARNING: Ceiling mount is not allowed !

### Standalone or network integration

The Base Unit can be use as standalone unit or integrated in a corporate network.

- Out-of-the-box use
- Out-of-the-box use with Ethernet link

### 4.2 Table mounting

### Overview

Put the Base Unit directly on the meeting room table.

The total weight of the Base Unit is 900 g.

### 4.3 Wall mounting

### About wall mounting

No mounting bracket is needed to install the Base unit on the wall. The Base Unit can be mounted in any position on the wall, but it is preferred to mount it with the connections downwards.

The total weight of the Base Unit is 900 g.

### **Required tools**

- a drill (type of drill depends on the type of wall)
- Screwdriver (depending on the used screws)

### **Required parts**

- · 2 mounting screws, maximum head diameter of 6.5 mm
- 2 plugs

### How to install

 Drill two holes in the wall or ceiling as indicated on the drawing. Horizontal distance : 162 mm,

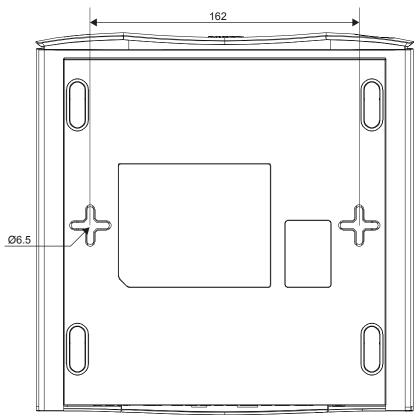


Image 4-1: Mounting holes

2. Insert a plug in each hole (if needed, depends on the wall or ceiling type) and drive in 2 screws. Do not drive in the screws completely.



*Note:* Mounting screws and plugs are not included in the CX-50 box. The type of screws and plugs depend on the type of wall (stone, wood, plasterboard, ...) you are mounting the Base Unit to. Make sure the head of the screw is not larger than the hole in the bottom plate of the Base Unit (< 6.5 mm).

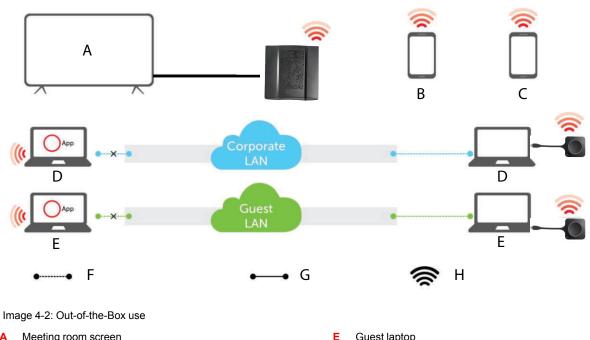
3. Hook the Base Unit on both screw heads and slide the Base Unit downwards until it is fixed.

### 4.4 Out-of-the-box use of the Base Unit

### Overview

The ClickShare Base Unit and Button (s) operate directly out of the box, without any integration in the Enterprise network. The Base Unit should be connected to the internet at least once to update and to register. Users can connect directly to the Base Unit via the ClickShare Buttons, using the ClickShare App or Miracast or with their mobile devices using Airplay or Google Cast.

Using a ClickShare Button allows you to stay connected to the internet. Using the ClickShare App, Airplay or Google Cast will require connecting to the Base Unit directly and will only be able to access the internet if the device supports to use data (3G/4G) at the same time.



- Meeting room screen Α
- В Employee mobile
- С Guest mobile Employee laptop D

- Guest laptop Wireless or Ethernet connection G Ethernet connection
- н Wireless connection

Using the ClickShare Base Unit and Buttons directly out of the box is ideal for temporary setups, visitor centers and small to medium installations without network integration needs or possibilities. This setup requires the least installation effort and keeps any shared data completely separated from your Enterprise network. Updating and configuring the Base Units will need to be done manually.

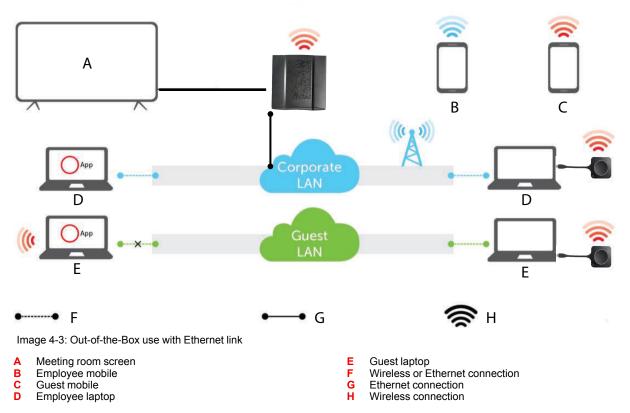
F

### 4.5 Out-of-the-box use of the Base Unit with Ethernet link

### **Overview**

In this extended out-of-the-box mode, an Ethernet connection is made between the ClickShare Base Unit and the corporate network. The ClickShare Base Unit Wi-Fi is kept enabled, ensuring users can still connect directly to the Base Unit via the ClickShare Buttons, using the ClickShare App, Miracast, Airplay or Google Cast. Employee computers running the ClickShare App and employee mobile devices using Airplay or Google Cast can connect via the corporate LAN.

Using a ClickShare Button allows guests to stay connected to the Guest LAN and thus retain internet connectivity. Guest mobile devices will usually need to connect to the Base Unit directly and will only be able to access the internet if the device supports to use data (3G/4G) at the same time.



Using the ClickShare Base Unit and Buttons directly out of the box is ideal for temporary setups, visitors' centers and small to medium installations without network integration needs. The Ethernet connection allows employees to use the ClickShare App without switching their Wi-Fi network.

### 4.6 Video signal connections to the Base unit

### About Video signal connection

A single screen can be connected to the Base unit.

To connect a display, an HDMI connection should be made between the Base Unit and the display.

### To connect

1. Connect the Base unit to the display using a display cable.



*Note:* No display cables are included in the ClickShare box at purchase.

When setting up a display configuration, connect the HDMI cable to the display. When necessary, use an adapter piece to connect to a display port or a DVI port on the display side.

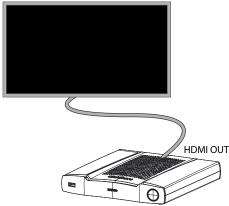


Image 4-4: Display connection

### 4.7 Touch screen connections to the Base unit

### About the connection

A single screen can be connected to the Base unit.

To connect video, an HDMI connection should be made between the Base Unit and the display. To connect the touch functionality, an USB cable should be connected between the touch screen and the Base Unit. A list of supported touch screen can be found on Barco's website. See <a href="https://www.barco.com/en/support/docs/TDE9538">https://www.barco.com/en/support/docs/TDE9538</a>.

### To connect

- 1. Connect a HDMI cable between the Base Unit and touch screen display. When necessary, use an adapter piece to connect to a display port or a DVI port on the display side.
- 2. Connect the USB output of the touch screen with an USB connector on the Base Unit.

### 4.8 Camera connection

### About USB cameras

Any USB camera can be connected to the Base Unit. A list of supported cameras can be found on Barco's website.

### To connect

1. Connect the camera via USB to the Base Unit.

Camera connected to the Base Unit is accessible when plugging in the button. No drivers required, all camera's will be visible to the user as "ClickShare Camera".

### 4.9 Content Audio connection

### About content audio (no speakerphone connected)

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 can be output at line levels from the mini jack socket (3.5mm), TOSLINK socket or via the HDMI connector (can be set in the configurator).

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 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 when the user is sharing content.

# About content audio (speakerphone connected)

The content audio captured on the user' laptop is transmitted via the sharing Button to the Base Unit and is send to USB port with speakerphone connected.

## Audio via HDMI (no speakerphone connected)

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.

When USB speakerphone is attached to the Base Unit, this will output all audio. Even if separate audio system is attached.

#### How to connect separate audio

1. When using the analog output, connect an audio cable with mini jack (3.5mm) 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 (depending on your Windows version):

E.g. for Windows 7:

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

E.g. for Windows 10

- 1. Click on the sound icon in the system tray and click on the arrow up to open possibilities.
- 2. Select the desired device.

# 4.10 Echo Canceling Speakerphone audio connection

#### About echo canceling speakerphone audio

The audio capture by an echo canceling speakerphone connected to the Base Unit is send to the Button and can be used in remote conference. The content audio transmitted from the Button to the Base Unit is send to the speakerphone.

It is a bidirectional audio transmission between the Button and the speakerphone.

#### **USB** speakerphone support

A list of supported speakerphones can be found on Barco's website.

#### How to connect an echo-canceling speakerphone

1. Connect your speakerphone device via USB to the Base Unit.

When USB speakerphone is attached to the Base Unit, this will output all audio. Even if separate audio system is attached for the content audio..

# Sound is not sent out

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

E.g. for Windows 7

- 1. Right click on the sound icon in the system tray and select *Default communication device*. The *Sound* window opens.
- 2. Select Echo Cancelling Speakerphone, select Set default and click Apply.

E.g. for Windows 10

- 1. Click on the sound icon in the system tray and click on the arrow up to open possibilities.
- 2. Select the desired device.

# 4.11 LAN connection

# About LAN connection

The Base Unit can be connected to a local network or directly to a laptop.

Maximum allowed LAN speed: 1000 Mbit

We do strongly advise the LAN connection and the use of XMS cloud for configuration, monitoring and additional functionality. The LAN connection also greatly improves the user experience when using the ClickShare Apps and native sharing protocols such as Airplay and others.

## How to connect

- 1. Insert a network cable with RJ-45 connector into the LAN port.
- 2. Connect the other side to a LAN.

# 4.12 Power connection



**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.

# About power

This product is intended to be supplied by a UL Listed Power Unit marked "Class 2" or "LPS" or "Limited Power Source" with output rated 12 VDC 4.2A min.

An external power adapter is delivered with the product.



Image 4-5: Power adapter

Depending on the model and country, different power cables are delivered. Use always the correct cable to connect the device to the wall outlet. If the correct cable is not available in the packing of the device, consult your local supplier for a correct power cord.



Image 4-6: Power cables

## How to connect

- 1. Plug the barrel connector of the power adapter into the power input of the Base unit.
- 2. Connect the power cable to the wall outlet.

# 4.13 First setup of the Base Unit



After the physical installation is done, start with the first setup procedure to activate and configure your device.

# **Preferred workflow**

1. Plug in the power supply and HDMI cable.

The Base Unit starts up.

ClickShare
○ -×-· ○
Unable to activate your ClickShare plug a network cable into your ClickShare device to continue

Image 4-7

2. Plug in a network cable.

The system checks for updates.

ClickShare
$\bigcirc \rightarrow \rightarrow \bigcirc$
Checking for updates looking for device firmware updates

#### Image 4-8

If an update is available, the base unit will download, update and reboot if no update is available, the unit will continue to the next step

3. Start registration to XMS cloud.

# 4.14 Registration to XMS Cloud

# About registration

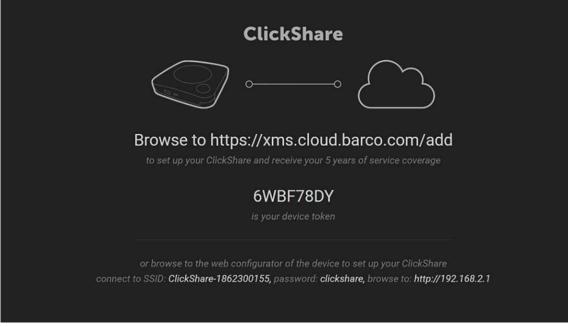
When your device is connected to the internet and updated you can start to register your device. You have to register your device in order to claim your 5 years SmartCare warranty.

Registration can be done to

• XMS cloud by the end customer (preferred flow) or reseller.

# **Online to XMS cloud**

1. When software update is finished and reboot is done, the customer will be asked to surf to <u>https://xms.cloud.barco.com/add</u>.



#### Image 4-9

The XMS login page is displayed.

2. Login with your Barco account. When you do not have a Barco account yet, click on **register here** and follow the instructions.



Image 4-10: Sign in page

#### 3. Click Sign in.

The XMS cloud welcome page is displayed.

		Welcome!!		
9				
	I have read the terms and conditions	of the End-User License Agreement and hendby ac	coupt them	
		BARCO		

Image 4-11: Welcome page to XMS-cloud

- 4. Accept the End User License agreement and click **Continue**.
- 5. Fill out your company information and click **Continue**.

Tell us about your Company	
We need to create a Tenant for your company in XMS Cloud This information will be used to identify your company, associated devices and services	
Tenant Name	
Tenant Name	
Country	
Alghanistan 👻	
Timezone	
Europe/Brussels *	
	1000 March 1000
and the second	Continue
BARCO	

Image 4-12: Company information

6. Enter the device token to setup your device and to receive your 5 years of service coverage. The device token is indicated on the ClickShare screen (see Image 4-9)

Click Continue.

Enter Device Token Enter your device token to semp your ClickShare and receive your 5 years of service coverage	
qfjdalda	
	Continue
BARCO	

Image 4-13: Enter device token

7. Assign a meeting room and click **Continue**.

		sign Meeting Roo			
I	Mit Maniké Janési				
					Continue
		BARCO			

Image 4-14: Assign meeting room

Your device is successfully registered.

8. Start pairing your buttons to start using your device.

ClickShare	
$\sim$	
Please pair your buttons to start using your ClickShare If you have additional buttom, please pair them to start using your ClickShare	

Image 4-15: Start pairing buttons

The wallpaper page will be displayed.

# 4.15 Use without registration of the device

# Why using offline

Several reasons are possible to use your product without registration:

- · When you cannot reach the XMS servers at this moment
- If you cannot accept the XMS eula
- if you do not want the smart care package,.

then you can skip the registration



The end-customer, then has 6 months to still register the unit in XMS cloud to activate the Smart Care package

CX-50 Installation

## How to handle

- Connect the device's WiFi with the instruction given on the wallpaper. The default SSID is ClickShare-<serial number>. Password : clickshare
- Once your WiFi connection is made, continue with the network setting of your device. Browse to <u>http://192.168.2.1</u>

The ClickShare Configurator starts up.

	ClickShare Configurator
	You will be redirected to the ClickShare Configurator. By clicking continue, you confirm that you have read and accepted the EULA and Privacy policy.
	Continue
English *	

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Image 4-16: Configurator startup

3. To change the language, click on the drop down box of the current indicated language and select the desired language.

简体中文	
繁體中文 Dansk Nederlands	ClickShare Configurator
English	
Suomi	
Français	You will be redirected to the ClickShare Configurator
Deutsch	By clicking continue, you confirm that you have read and accepted the EULA and Privacy policy.
Italiano	
日本語	
한국어	Continue
Norsk	
Português	
Русский	
Español	
Svenska	

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BARCO

Image 4-17: Configurator, language selection

#### 4. Click **Continue** to start.

A registration message is displayed.

	You have chosen to skip the product registration.
	To enjoy Barco SmartCare, you (the final owner of this Base Unit) have to register this ClickShare unit within the next 6 months. SmartCare offers 5 years service coverage, free software updates and usage insights in XMS Cloud. If you do not register this unit, a standard 1-year warranty will apply.
	Bagener Later ()
	Image 4-18: Registration message
5.	Click <b>Register Later</b> .
6.	Start pairing your buttons.
	Pair buttons
	Please pair your buttons to start using your ClickBhave.
	and
	BARCO
	Image 4-19: Start pairing

7. Start configuring the network settings. For more info, see "Basic configuration of the ClickShare device", page 46



Your still have to register your device to get your 5 years warranty.

# XMS Cloud note in Configurator

When browsing in the Configurator to Wi-Fi & Network -> Services, you will see a XMS Cloud integration message how to register it and the token to use.

## CX-50 Installation

÷	Personalisation	Services			Discard changes	The Oliver
ç	Display & Audio				POLICIAL	- Several concepts
٠	Wi-Fi & Network					
	W.F.Semipi LAV.Semipi Services	Mobile Devices	Passoode type:	<ul> <li>Shuring va Cluscham app</li> <li>No pascode</li> </ul>		
0	Security			To become		
0	System.	XMS Cloud Integration				
0	Support & Updates		Tokers	The CASEBaar doolan is not organored. You can register the CASEBaar dovce at https://onu-tatt2.cmp.darcs.cloudladd SISWPTTE		
61 63	opdate basic settings run the Minare Configuration Wood With theres all optits reserved.	58889	Engine ID:	W Duble G48001(50020125R04881)		
Ir	mage 4-20: XMS c	loud messa	ge			

# 4.16 Basic configuration of the ClickShare device



Make sure you are connected via WiFi to the Base Unit.

## How to setup

 Open an internet browser and browse to http://192.168.2.1 The ClickShare Configurator starts up.

	ClickShare Configurator
	You will be redirected to the ClickShare Configurator. By clicking continue, you confirm that you have read and accepted the EULA and Privacy policy.
Engle	Continue
© 2019, Barco, All rights reser	ved.

2. To change the language, click on the drop down box of the current indicated language and select the desired language.

简体中文	
繁體中文	
Dansk	ClickShare Configurator
Nederlands	Constant Coording and Co
English	
Suomi	
Français	You will be redirected to the ClickShare Configurator.
Deutsch	By clicking continue, you confirm that you have read and accepted the EULA and Privacy policy.
Italiano	
日本語	
한국어	Continue
Norsk	
Português	
Русский	
Español	
Svenska	

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Image 4-22: Configurator, language selection

## **3**. Click **Continue** to start.

A registration message is displayed.

4. Click **Next** to continue.

The Configurator Login page is displayed.

	ClickShare Configurator		English <del>-</del>
Log in to th	ne ClickShare Configurat	or	
Log Into th	ie eliekonare comigarat		
Username:	Unamana		
username.	Username		
Password:	Password		
	Remember me		
	I have read and accept the <u>EULA</u> and §	Privacy policy	
		Log in	
	BARCO		
© 2019, Barco. All rights reserved.	BHILE		
Image 4-23: Configurator, login page	e		

- 5. Log in with the following default credentials. These credentials can be changed later on.
  - Username: admin

#### Password: admin

A welcome page to the ClickShare Configuration Wizard opens.

CX-50 Installation

### 6. Click Start configuration.

Follow the instructions as given on the different pages.

Click Next to continue to the next page and Back to return to the previous page.

# 7. Fill out:

Personali- sation	<ul> <li>Language for on-screen text</li> <li>Meeting room name</li> <li>Location name</li> <li>Welcome message</li> </ul>
System	<ul> <li>Select your time zone</li> <li>date and time mode setting, manually or via NTP.</li> </ul>
Security	select your desired security level
Password	Enter a new password to login to the ClickShare Configurator.
Network	Setup the network settings:
	<ul> <li>Select frequency band</li> <li>Select a channel</li> <li>Change the SSID if you want. The default value is <i>ClickShare-<serial number=""></serial></i>.</li> </ul>

- Check or uncheck broadcast SSID
- Enter a new WiFi passphrase.

For more detailed information about all these settings,

Your Base Unit can now communicate via LAN.

Start pairing the buttons.

# Preparing the Buttons



Pairing	
ClickShare Extension Pack	51
ClickShare Extension Pack installer	
ClickShare Windows Certified driver	

# 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. All Buttons will need to be updated and paired before use.

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



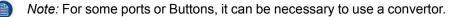
A Button can only be paired to one Base Unit at a time. The Button will always make connection to the Base Unit it was last paired to.

Pairing a Button can be done in two ways:

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

# To pair a 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).



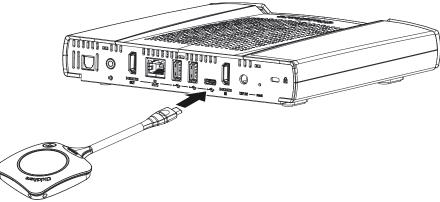


Image 5-1: Pair button

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

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

The result of the pairing process can be as follows:

- When the LEDs on the Button become green and on static white on the Base Unit, the Button is paired to the Base Unit. You can unplug the Button from the Base Unit.
- Unplug the Button from the Base Unit. 2.

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





# 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 (only on Windows). 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 <u>http://www.barco.com/en/product/clickshare-extension-pack</u>).
- 2. Unzip the downloaded file.
- 3. Click ClickShare-Extension-Pack.msi to start the installation.



Image 5-3

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 (laucher + 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.
INSTALLFOLD- ER	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.

# 5.4 ClickShare Windows Certified driver

#### About

The ClickShare Windows Certified driver is auto-installed when plugging in a Button in a Window PC.

This Windows driver automatically lauches the executable on the Button.

Note that at least version **1.16.0** is required. In case an older version is installed on your PC, start windows update *check for updates* with a button inserted into your PC.

# 5.5 ClickShare Desktop app

## About the

With the ClickShare desktop app installed on your computer you can enter a meeting room and get on the screen in a few seconds without the need to plug in a Button. The ClickShare app can be used in combination with a Button.

The ClickShare desktop app connects to the meeting room screen in order to share your content. Presence detection technology is used to do so. The ClickShare desktop app uses presence detection technics to determine which meeting room is closest to the user. Just click on your meeting room name. This means you will never have to enter IP addresses or scroll long lists of meeting rooms before being connected to your meeting room.

# Installation

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

Preparing the Buttons

# 6

# **CX-50 Configurator**

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# **About configuration**

The configuration of your device can be done in

- XMS cloud
- the local configurator

The configurator in XMS cloud will (in time) more elaborated than the local configurator. Therefore it preferred to configure your devices via XMS cloud. For more info see XMS documentation.

The next topics are describing the local configurator.



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, 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.

A	ClickShare Configurator		English <del>+</del>
Log in to t	the ClickShare Configurat	or	
Username:	Username		
Password:	Password		
	Remember me I have read and accept the <u>EULA</u> and	Privacy policy	
		Log in	
		Log In	
© 2019, Barco. All rights reserved.	BARCO		
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.

	English 🗸 📑	
	العربية	
	简体中文	
	繁體中文	
	Dansk	
	Nederlands	
	Suomi	
	Français	
5	Deutsch	
	Italiano	
	日本語	
	한국어	
	Norsk	
	Português	
	Русский	
2	Español	
	Svenska	
. Loo	ana C.O. Canfinunatar	1

Image 6-2: Configurator lanuguages

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 the Privacy policy 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 section "Security, passwords".

The configurator opens.

Personalisation	What do you want to do t	oday?
🖵 Display & Audio		
🗢 Wi-Fi & Network		
Security	Le Change wallpaper	View Base Unit status
🗘 System	View Button status	Change energy saving settings
Support & Updates	Download log files	💸 Launch configuration wizard
	2.4 GHz: ClickShare-675F2D	ClickShare-675F2D 10.200.20.136
	Showing wallpaper 0 Buttons connected	Your Base Unit is up to date.
To update basic settings, run the <u>ClickShare Configuration Wisard</u> 0 2019, Barco. All rights reserved. BARCO-		

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
- the wireless IP address
- the wireless SSID
- 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 192.168.1.23. Make sure your own LAN adapter is set in the 192.168.1.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.



3. Browse to <u>http://192.168.1.23</u>.

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 <u>http://192.168.2.1</u>.

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.

Group	Function					
Personalization	On-Screen ID					
	Wallpaper					
	Configuration Files					
Display & Audio	Outputs					
	Inputs					
Wi-Fi & Network	Wi-Fi Settings					
	LAN Settings					
	Services					
Security	Security levels					
	Passwords					
System	Base Unit Status					
	Date & Time					
	Energy Savers					
	Buttons					
	Blackboard					
Support & Updates	Firmware					
	Troubleshoot					

# **Overview of functions**

When a setting is changed, always click Save changes to store the changes.

# 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.

			ClickShar	re Configuratio	n Wizard				8
Personalis		<b>Ö</b> System	>	Security	>	Password	>	Retwork	
	Welcome t	de you through a	couple of s	teps to configur	e your Click	Share Base Unit.			
	Click "Start configu	ation" to begin. A	At any time	you can abort t	he wizard b	y clicking the clos	e button.		
Cancel				BARCO				Start C	$\overline{\mathbb{O}}$
Image 6-4: Configura									
To start the wizar	d, click on S	start Confi	igurati	on.					

			ClickSha	are Configuratio	on Wizard				•
Personalisati	> on	<b>Ö</b> System	>	<b>O</b> Security	>	Password	>	Network	
4	Persor	nalisation	n						
	Language for on	-screen text:	Engli	sh				٠	
	Meeting	room name:	Enter	the name of the	meeting ro	oom			
	Loc	ation name:	Enter	the name of the	location				
	Welcor	ne message:	Enter	Enter a welcome message					
				BABCO				Next	$\odot$

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.

Personalisa-	Language on-screen text	See "On-Screen ID information", page 63.
tion	Meeting room name, location name and welcome message	See "On-Screen ID information", page 63.
System	Time zone, manual time setup	See "Date & Time setup, manually", page 83.
	Use NTP	See "Date & Time setup, time server", page 84.
Security	Level settings	See "Security, security level", page 80.
Password	ClickShare Configurator (WebUI) password	See "Security, passwords", page 81.
Network	Frequency band, channel Wi-Fi passphrase	See "", .

2 Personalisation	What do you want to do t	oday	?
🖵 Display & Audio			
🗇 Wi-Fi & Network			
Ø Security	Change wallpaper	¢	View Base Unit status
Ø System	View Button status	¢	Change energy saving settings
Support & Updates	Download log files	1.	Launch configuration wizard
	2.4 GHz: ClickShare-675F2D		ClickShare-675F2D 10.200.20.136
To update basic settings, run the ClickShare Configuration Wilard © 2019, Barco, All rights reserved.	Showing wallpaper 0 Buttons connected		Your Base Unit is up to date.
Image 6-6: Configuration Wi	zaro start		

# 6.3 On-Screen ID information

# About device identification

The following items can be set:

- On-Screen language. Independent from the Configurator language.
- Meeting room name
- Location of the meeting room
- Welcome message to be displayed in the meeting room
- Show the network information
  - 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 (default setup)

*	Personalisation	👗 On-Screen	ID		
	On-Screen ID			Discard changes	Save changes
	Wallpaper				
	Configuration Files	Language for on- screen text:	English	2 <b>.</b>	
Ð	Display & Audio	Meeting room name:	Docu		
(1)	WI-FI & Network	Location name:	Kortrijk		
0	Security	Welcome message:	Welcome to		
¢	System		Show network info		
0	Support & Updates				
1ic) 20	odate basic settings, run the Share Configuration <u>Wizard</u> 19. Barco, All rights reserved.				
m	age 6-7: On-Screen ID				

# **On Screen language selection**

- 1. Log in to the Configurator.
- **2**. Click Personalisation  $\rightarrow$  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

## Meeting room name, location and welcome message

- 1. Log in to the Configurator.
- 2. Click Personalisation  $\rightarrow$  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.

# 6.4 Personalisation, Wallpaper

#### About wallpaper

When CX-50 starts up, a background (wallpaper) is displayed. The display of this background wallpaper can be disabled.

By default two general ClickShare wallpapers 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  $\rightarrow$  Wallpaper.

		💄 Wallpaper	Discard changes	Save changes
	On-Screen ID			
	Wallpaper			
	Configuration Files	Show the wallpaper when no one is sharing their screen	,	
₽	Display & Audio			
(1:	Wi-Fi & Network			
ð	Security			
¢	System			
0	Support & Updates			
	odate basic settings, run the Share Configuration Wizard			
D 20	19, Barco. All rights reserved.			
BA	IRCO-	Choose image		

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

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

Note: By default two general Barco 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.



3.

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 66.

#### **Download wallpaper**

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



Image 6-9: 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

# 6.5 Personalisation, Personalized wallpaper

## 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**.

	🔷 🚨 Wallpaper	Discard changes	Save changes
On-Screen ID		minum minum Ben	and changes
Wallpaper			
Configuration Files	Show the wallpaper when no one is sharing their screen	1	
🖵 Display & Audio			
🗢 WI-FI & Network			
Security			
🗘 System			
Support & Updates			
To update basic settings, run the <u>ClickShare Configuration Wizard</u> © 2019, Barco. All rights reserved.			
BARCO	Choose image		

Image 6-10: 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.

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. Hoover your mouse over the current personalized image and click Change image.

		👗 Wallpaper	Discard changes	Save change
	On-Screen ID			
	Wallpaper			
	Configuration Files	Show the wallpaper when no one is sharing their screen		
P	Display & Audio			
(î)	WI-FI & Network			
ð	Security			
¢	System			
Ø	Support & Updates			
		<u> </u>		
lick	odate basic settings, run the <u>Share Configuration Wizard</u> 19, Barco. All rights reserved.			
	RCO	Change image Ci	hoose image	

- Image 6-11: 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. Hoover your mouse over the current image and click on the trash bin to remove the image.



Image 6-12: Remove wallpaper

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

# 6.6 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.

÷	Personalisation	💄 Configu	ration Files
	On-Screen ID		
	Wallpaper	Configuration download:	Full backup
	Configuration Files		The full backup contains all settings and
Q	Display & Audio		history for the Base Unit. It is not useful for duplicating configuration settings to other Base Units.
(11-	WI-FI & Network		Portable version
Ø	Security		The portable version is a copy of the
¢	System		configuration settings that can be used to duplicate the configuration to other Base Units.
0	Support & Updates	Configuration upload:	Upload configuration

#### Image 6-13: 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.

# 6.7 Display setup, Outputs

## Resolution

The output resolution to the display is set on Auto. That means that the CX-50 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  $\rightarrow$  Outputs.

Personalisation	<b>Q</b> Outputs			
🖵 Display & Audio			Discard changes	Save changes
Outputs				
Inputs	Output			
🗢 WI-FI & Network	Resolution:		•	
Security		🗑 HDMI Hot-Plug display detection		
🗘 System		Enable CEC		
Support & Updates		Enable audio		
	Audio output:	HDMI	٠	
	Screensaver			
To update basic settings, run the <u>ClickShare Configuration Wizard</u> © 2019, Barco. All rights reserved.	Show screensaver after (minutes):	Never1 5 10 15 30	45 60	
Image 6-14: 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.

# 6.8 Display setup, Output

# Resolution

The output resolution to the display is set on Auto. That means that the CX-50 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  $\rightarrow$  Outputs.

Personalisation	<b>Q</b> Outputs				1.2000		
🖵 Display & Audio					Disci	ard changes	Save changes
Outputs							
Inputs	Output						
🗢 WI-FI & Network	Resolution:					•	
Security		🕑 HDMI Hot-Plu	ıg display o	detection			
System		Enable CEC					
Support & Updates		🗹 Enable audio					
	Audio output:	HDMI				•	
	Screensaver						
To update basic settings, run the <u>ClickShare Configuration Wizard</u> © 2019, Barco. All rights reserved.	Show screensaver after (minutes):	Never1 5	10	15 30	45	60	
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, Inputs

## About the input

When a input source is connected to the HDMI input, the Signal led lits up. The name of the source is displayed next to Source Name but can be changed. This source name is displayed on the screen.

#### How to change the source name

- 1. Log in to the *Configurator*.
- **2**. Click Display & Audio  $\rightarrow$  Inputs.

Personalisation	🖵 Inputs		Discard changes	Save changes
🖵 Display & Audio				
Outputs	HDMI			
Inputs	Signal:	•		
🗢 WI-FI & Network	Source Name:			
🛛 Security	Source Name:	Video Input 1		
O System		🖉 Enable		
Support & Updates				

Image 6-16: 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.

# 6.10 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.

Personalisation	Qutputs		Discard changes Save changes
💭 Display & Audio			tracting changes Save changes
Outputs inputs	Dutput		
🗢 WI-Fi & Network	Resolution:	Auto	194
Security		HDMI Hot-Plug display detection	
O System		Enable CEC	
Support & Updates		🗷 Enable audio	
	Audio output:	HDMI	
	Screensaver	jack MHDMI SPDIF	
	Show screen saver after (minutes):	Never 1 5 10 15 30 4	45 60
To update basic settings, run the DickShare Configuration Wigard	Screensaver Mode:	HDMs	•

Image 6-17: Audio settings

## How to change

- 1. Log in to the *Configurator*.
- 2. Click Display & Audio  $\rightarrow$  Display & Audio.
- 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 ouput via TOSLINK

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

# 6.11 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.

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

Personalisation	🗢 Wi-Fi Setti	ngs	Edit settings
🖵 Display & Audio			Edit settings
🗢 Wi-Fi & Network	Operation Mode:	Access Point	
Wi-Fi Settings	Access Point Mode Setting	35	
LAN Settings Services	Broadcast SSID:	Yes	
<ul> <li>Security</li> </ul>	ClickShare Configurator available via Wi-Fi:	Yes	
🗘 System	Frequency band: Channel:	5 GHz 36	
Support & Updates	SSID:	ClickShare-1863550236	
	MAC address:	10:63:C8:96:FD:A7	
	IP Settings		
	IP address:	192.168.2.1	
To update basic settings, run the ClickShare Configuration Wizard © 2020, Barco. All rights reserved. BARCO	Subnet mask:	255.255.255.0	

Image 6-18: WiFi settings

When operational mode is set to *Off.* The following info is given: "When disabling the access point, the Buttons will need to be integrated in the corporate network. This is not supported yet.".

Click on *here* to start the button configuration. For more info, see "*Buttons*", page 86.

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

Personalisation	奈 Wi-Fi Sett	ings	Cancel	Save changes
🖵 Display & Audio				
🗢 Wi-Fi & Network	Operation Mode:	Access Point	٠	
Wi-Fi Settings	Access Point Mode Settin	gs		
LAN Settings				
Services	New Wi-Fi passphrase:	Enter a new passphrase		
Security	Confirm Wi-Fi passphrase:	Confirm the passphrase		
System	Factor			
Support & Updates		Broadcast SSID		
G Support & opuates		ClickShare Configurator available v	via WI-FI	
	Frequency band:	5 GHz	*	
	Channel:	36	•	
	SSID:	ClickShare-1863550236		
	MAC address:	10:63:C8:96:FD:A7		
	IP Settings			
To update basic settings, run the <u>ClickShare Configuration Wizard</u>				
© 2020, Barco. All rights reserved.	IP address:	192.168.2.1		
BARCO	Subnet mask:	255.255.255.0		
lmage 6-19: WiFi settings, edit				

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

#### Change operational mode

- 1. Log in to the Configurator.
- 2. Click Wi-Fi & Network  $\rightarrow$  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

#### 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.

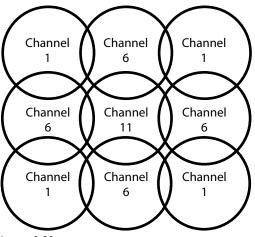


Image 6-20

To limit the effect of overlapping networks, it is highly recommended to reduce the signal strenght (standard range of about 30m) of the ClickShare Base Units. Reducing the signal strenght 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.

#### Frequency band & channel selection

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

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.

Ideally, the ClickShare channel is selected after conducting a wireless site survey. A site survey maps out the sources of interference and the active RF systems. There are several Wi-Fi survey tools available on the market. Based on the results from a site survey, the least occupied channel can be found and selected for each meeting room.

2. Select the wireless connection frequency band: 2.4 GHz or 5 GHz by clicking on the drop down box and selecting the correct band.

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 drop down 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.

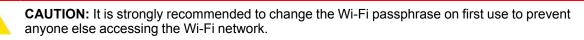
When Intense use, change to another Wi-Fi channel is displayed, change to another channel. The page will reload after approximately 1 minute.

#### SSID & passphrase

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*.
- 3. Enter a new WiFi passphrase and confirm that passphrase.



#### 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.

#### 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.

#### IP address & subnet mask

- 1. Log in to the *Configurator*.
- 2. Click Wi-Fi & Network  $\rightarrow$  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.

## 6.12 LAN settings

#### About LAN network settings

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

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.

#### Hostname & method

- 1. Log in to the Configurator.
- 2. Click Wi-Fi & Network  $\rightarrow$  LAN Settings.

Personalisation	🗢 LAN Settin	ngs	Discard changes	Save changes
🖵 Display & Audio				
🗢 Wi-Fi & Network	LAN Hostname Settings			
Wi-Fi Settings	Hostname:	ClickShare-1863550236		
LAN Settings				
Services	Primary Interface			
Security	Method:	Automatic (DHCP)	•	
System	IP address:	10.200.26.84		
Support & Updates				
	Subnet mask:	255.255.254.0		
	Default gateway:	10.200.26.1		
	MAC address:	00:04:A5:01:03:EC		
	DNS servers:	10.197.192.11,10.193.251.11		
To update basic settings, run the <u>ClickShare Configuration Wizard</u>	LAN Proxy Settings			
© 2020, Barco. All rights reserved.				
BARCO		Use a proxy server		



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. 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.
- 5. Click Save changes to apply the settings.

#### 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.

- 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):	Enter a password

Image 6-22: Proxy settings

The proxy settings become available.

- 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.

## 6.13 Services, Mobile devices

#### ClickShare app

The ClickShare app is enabled by default and makes it possible to connect with a mobile device to the Base Unit.

#### Passcode type selection

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

*	Personalisation	Services			
Q	Display & Audio			Discard changes	Save changes
()	Wi-Fi & Network				
	WI-Fi Settings	Mobile Devices			
	LAN Settings		Sharing via ClickShare app		
	Services	Passcode type:	No passcode		
Ø	Security				
¢	System	XMS Cloud Integration			
0	Support & Updates		The ClickShare device is unable to conne cloud service.	ect to the	
			Make sure the network settings are corr configured.	ectly	
		SNMP			
Click	pdate basic settings, run the <u>Share Configuration Wizard</u> )20, Barco. All rights reserved.		🕑 Enable		
Bf	ARCO	Engine ID:	0x80001c90030004A50103EC		
ma	ge 6-23: Services, mobile o	devices			

- 3. Click on the drop down box and select the desired passcode type.
  - No passcode
  - Numeric passcode

## 6.14 XMS Cloud Integration

#### **Overview**

When your device is not registered and connected to the cloud service, the following message will be displayed: The ClickShare device is unable to connect to the cloud service. Make sure the network settings are correctly configured.

When your device is correctly registered, the following message is displayed: The ClickShare device has been successfully registered;

Personalisation	Services			
🖵 Display & Audio			Discard changes	Save changes
🗢 Wi-Fi & Network				
WI-FI Settings	Mobile Devices			
LAN Settings		Sharing via ClickShare app		
Services	Passcode type:	No passcode		
Security				
System	XMS Cloud Integration			
Support & Updates		The ClickShare device is unable to coni cloud service.	nect to the	
		Make sure the network settings are co configured.	rrectly	
	SNMP			
To update basic settings, run the <u>ClickShare Configuration Wizard</u> © 2020, Barco. All rights reserved.		🖉 Enable		
BARCO	Engine ID:	0x80001c90030004A50103EC		
Image 6-24: Services, XMS clo	ud			

#### What can be done?

- 1. Check your network settings or register your device to XMS Cloud.
  - Follow procedure as described in "Registration to XMS Cloud", page 41.

## 6.15 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  $\rightarrow$  Services.
- 3. Scroll to SNMP.

SNMP		
	🕑 Enable	
Engine ID:	0x80001c90030004A50F503D	
	Use default Engine ID	
SNMP Manager:	snmpnmanager	
Username:	someone	
New password:	Enter a new password	
Confirm password:	Confirm the password	

Image 6-25: 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.
- Enter the Username.
- 4. Enter a new password and confirm that password.

## 6.16 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.

Personalisation	Security Level			
🖵 Display & Audio				
🗢 WI-FI & Network				
Security		0	2	3
Security Level	Activate passcode for mobile apps & Buttons	×	~	~
Passwords	ClickShare Configurator: HTTPS, Log-in management, disable wireless access	*	*	~
🗘 System	Hide the SSID of the WI-FI network		~	~
Support & Updates	Mandatory passcode for mobile apps & services		~	~
	BYOD services and features are blocked			~
	Firmware downgrade not possible			~
	No wireless access to ClickShare Configurator			~
o update basic settings, run the lickShare Configuration Wizard 0 2020, Barco. All rights reserved.	<i>Remarks:</i> <sup>1</sup> Changing the security level will require Button re-pairing.			
mage 6-26: Security levels				

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

## 6.17 Security, passwords

#### About passwords

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

#### Changing the ClickShare Configurator password

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

2 Personalisation	Passwords			
🖵 Display & Audio			Discard changes	Save changes
🗢 Wi-Fi & Network				
Security	ClickShare Configurator Pa	ssword		
Security Level	Old password:	Enter your old password		
Passwords	New password:	Enter a new password		
System				
Support & Updates	Confirm password:	Confirm the password		
To update basic settings, run th <u>ClickShare Configuration Wizar</u> © 2020, Barco, All rights reserv BARCO	d			

- Image 6-27: Passwords
- 3. Click in the *WebUI Password* (configuration 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.

## 6.18 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**

- 1. Log in to the Configurator.
- **2**. Click Support  $\rightarrow$  Base Unit Status.

*	Personalisation	C Base Unit	Status
P	Display & Audio		
(1-	Wi-Fi & Network	Model:	Control (Marine) Construction
Ø	Security	Product:	00.00
¢	System	Serial number:	(10000000000000000000000000000000000000
	Base Unit Status		
	Date & Time	Firmware version:	Source of station - state
	Energy Savers	First used:	2019-11-12T13:03:09
	Buttons	Current uptime:	2 hours, 38 minutes, 12 seconds
0	Support & Updates		
		Lifetime uptime:	23 hours, 15 minutes, 44 seconds
Click	pdate basic settings, run the <u>(Share Configuration Wizard</u>	Overall status:	All processes are running
-	020, Barco. All rights reserved.		Restart Base Unit
ma	ge 6-28		

Image 6-28

#### 3. 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.

## 6.19 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  $\rightarrow$  Date & Time.

÷	Personalisation	Date & 1	Гime	Discard changes	Save changes
Q	Display & Audio				
(1:	WI-FI & Network	Current time:	Thu, 26 Nov 2015 15:44:30 U	тс	
Ø	Security	Time zone:	Please select a time zone	٠	
o	System	Mode for setting date and time:	Set date and time manua	lly	
	Base Unit Status		Use NTP		
	Date & Time	Date:	2015-11-26		
	Energy Savers	Time:	15:44:30		
	Buttons				
٥	Support & Updates				

Image 6-29: 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.

1	Nove	mber	201	5	33	F
Mo	Tu	We	Th	Fr	Sa	T
26	27	28	29	30	31	
2	3	4	5	б	7	
9	10	11	12	13	14	n,
16	17	18	19	20	21	
23	24	25	26	27	28	L
30	1	2	3	4	5	L

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.

^	^	^
15	45	: 01
*	*	~
15:45:	01	

Image 6-31: 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.

### 6.20 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  $\rightarrow$  Date & Time.

<u>*</u>	Personalisation	Date & Time		Discard changes	Save changes
Q	Display & Audio				
(1-	WI-FI & Network	Current time:	Thu, 26 Nov 2015 15:45:01	CET	
Ø	Security	Time zone:	(UTC+01:00) Brussels, Co	openhagen, M. 🔻	
0	System	Mode for setting date and time:	<ul> <li>Set date and time manu</li> <li>Use NTP</li> </ul>	ally	
	Base Unit Status		C USENTP		
	Date & Time	Status:	O Disabled		
	Energy Savers	NTP servers:	ntp.barco.com		
	Buttons	Enter a comma-separa NTP servers, in order			

Image 6-32: 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.

## 6.21 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 or app connecting with the Base Unit
- Press the standby button on the Base Unit
- Pairing a Button on the Base Unit's USB port
- Plugging in an HDMI display
- Plugging in an HDMI source

#### Standby mode

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

The Base Unit will go to network standby whenever there is an active network connected to the Base Unit.

In this case, the Base Unit's LEDs will be breathing white.

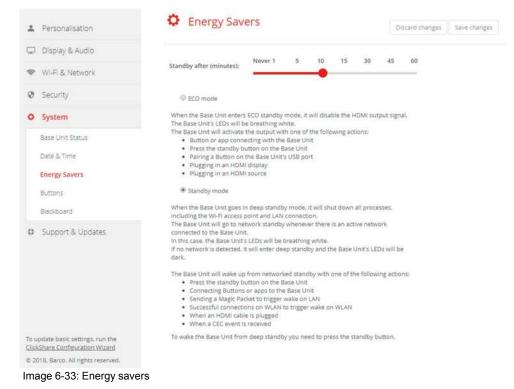
If no network is detected, it will enter deep standby and the Base Unit's LEDs will be dark.

Power consumption in Deep standby: 0.4W

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

- Press the standby button on the Base Unit
- Connecting Buttons or apps to the Base Unit
- Sending a Magic Packet to trigger wake on LAN
- Successful connections on WLAN to trigger wake on WLAN
- When an HDMI cable is plugged
- When a CEC event is received

To wake the Base Unit from deep standby you need to press the standby button.



#### How to change the display timeout

- 1. Log in to the Configurator.
- 2. Click System  $\rightarrow$  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.

### 6.22 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  $\rightarrow$  Buttons.

*	Personalisation	C Butte	ons				
Q	Display & Audio						
(1:-	WI-FI & Network	Buttons conne	ct to: ClickShare-18	363550236 (5 GHz)			
0	Security						
0	System	Select all S	elect none				Remove
	Base Unit Status	Select	Serial number	MAC address	Article code	Firmw	are
	Date & Time		1860000236	3C:E1:A1:0D:3D:8E	R9861600D01C	04.04.	01.0001
	Energy Savers						
	Buttons						
0	Support & Updates						

Image 6-34: 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 filed out.

For an internal access point, no settings are needed.

## 6.23 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.

	G Firmware U	Indate		
L Personalisation	Firmware Update		Discard changes	Save changes
💭 Display & Audio				
🗢 WI-FI & Network	Firmware status			
Ø Security		Currently on v01.07.00.develop-0402 and up to	o date.	
Ö System	Updates			
Support & Updates				
Firmware Update	Automatic Firmware updates:	Automatic		
Troubleshoot		We will automatically keep the system up to date Updates are installed when the unit has not beer for 8 hours.		
	Manual Firmware Updates			
		You can get the latest firmware on www.barco.com/clicksharesetup		
	Firmware update:	Upload firmware		
		Allow firmware downgrade		
Image 6-35: Firmware upda	ate			

#### 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  $\rightarrow$  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 ( <u>https://www.barco.com/en/page/xms-cloud-management-platform</u>) or CMGS ( <u>https://www.barco.com/nl/product/collaboration-management-suite</u>).
- Download the firmware on a USB stick and plug in this USB in your device. For more information, see "Updating the CX-50 firmware", page 92

## 6.24 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.

Personalisation	Troubleshoot		
Display & Audio			
Wi-Fi & Network	Logging		
Security	Enable debug logging		
O System	Download logs		
Support & Updates	Clear logs		
Firmware Update Troubleshoot	Factory Defaults		
	Reset to factory defaults The Base Unit can be reset to factory defaults by plugging in the power cable while pressing the reset button.		

Image 6-36: 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.

## 6.25 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  $\rightarrow$  Troubleshoot.

Personalisation	Troubleshoot
Display & Audio	
WI-FI & Network	Logging
Security	Enable debug logging
🗘 System	Download logs
Support & Updates	Clear logs
Firmware Update	
Troubleshoot	Factory Defaults
	Reset to factory defaults
	The Base Unit can be reset to factory default by plugging in the power cable while pressin the reset button.

Image 6-37: 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.

# 7

## **Firmware updates**

## 7.1 Updating the CX-50 firmware



When starting up the device for the first time a software update is necessary. This update can only be done via the network.

#### About Firmware updates

There are different ways to update the Base Unit software:

- automatic update when connected with the network or your device is configured in XMS cloud.
- via the Configurator, for more information, see "Firmware Update", page 87.
- by copying the software on a USB stick

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

- Download the latest version of the firmware from Barco's website, <u>www.barco.com/clickshare</u>. 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

## 8.1 Troubleshooting list

#### **Problem solving**

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><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	• 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".
	Low signal strength	<ul> <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><li>Use another browser (version).</li><li>Check the browser settings.</li></ul>
	No connection	<ul> <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 ClickShare drive when inserting the Button in their laptop.	<ul> <li>No automatic refresh of drives</li> <li>Windows tries to assign the ClickShare drive to an already reserved drive letter</li> </ul>	<ul> <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><li>Reconnect to the USB port.</li><li>Try another USB port.</li><li>Reboot the laptop.</li></ul>
	<ul> <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>	If possible, change the USB port policy on the laptop.

Problem Low video performance	Cause Laptop performance	<ul> <li>Solution</li> <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> <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	The number of shared video'son the screen is exceeded. When roomdock is used, only one participant can share his screen.	Click and hold the button for 2 seconds to use the Show me full screen function.
	The ClickShare software is not running.	Go to the ClickShare drive and run the software.
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. Unplug the button from your laptop and try a new button.
Noting 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.

Problem	Cause	Solution
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. Obstructions between Buttons and Base Unit cause lowering of the wireless strength and quality.	Move the Base Unit to another place in the room.
		Avoid placing it inside cabinets, false ceiling, below the table, behind a wall, in another room,
		Re-orient he Base Unit antennas
		Check out the ClickShare White paper on WiFi See <u>www.barco.com/clickshare</u> .
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.

#### Barco knowledge base and YouTube videos

Go to the product page on Barco's website and select in the right column **Support**. You will get access to Barco's *Knowledge base* and *Latest tutorial videos*. For more YouTube videos, consult <u>https://www.youtube.com/user/barcoTV</u> and select ClickShare.



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