C-10, C-5



Installation manual



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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alsa-utils	1.1.7	ftp://ftp.alsa-project.org/pub/utils
libsamplerate	0.1.9	http://www.mega-nerd.com/SRC
libsndfile	1.0.28	http://www.mega-nerd.com/libsndfile/files
ncurses	6.1	http://ftpmirror.gnu.org/ncurses
avahi	0.7	https://github.com/lathiat/avahi/releases/download/v0.7
dbus	1.12.16	https://dbus.freedesktop.org/releases/dbus
expat	2.2.7	http://downloads.sourceforge.net/project/expat/expat/2.2.7
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
pcre	8.42	https://ftp.pcre.org/pub/pcre
python3	3.7.4	https://python.org/ftp/python/3.7.4

PACKAGE	VERSION	SOURCE SITE	
bluez5_utils- headers	5.50	https://cdn.kernel.org/pub/linux/bluetooth	
libffi	v3.3-rc0	https://github.com/libffi/libffi/archive/v3.3-rc0	
libzlib	1.2.11	http://www.zlib.net	
libdaemon	0.14	http://0pointer.de/lennart/projects/libdaemon	
libglib2	2.56.4	http://ftp.gnome.org/pub/gnome/sources/glib/2.56	
elfutils	0.176	https://sourceware.org/elfutils/ftp/0.176	
bzip2	1.0.8	https://sourceware.org/pub/bzip2	
util-linux	2.33	https://cdn.kernel.org/pub/linux/utils/util-linux/v2.33	
linux-pam	1.3.1	https://github.com/linux-pam/linux-pam/releases/download/v1.3.1	
flex	2.6.4	https://github.com/westes/flex/files/981163	
readline	8.0	http://ftpmirror.gnu.org/readline	
bc	1.06.95	http://alpha.gnu.org/gnu/bc	
bellagio	0.9.3	http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3	
bitstream	1.4	https://get.videolan.org/bitstream/1.4	
bluez5_utils	5.50	https://cdn.kernel.org/pub/linux/bluetooth	
libical	1.0.1	https://github.com/libical/libical/releases/download/v1.0.1	
eudev	3.2.7	http://dev.gentoo.org/~blueness/eudev	
kmod	25	https://cdn.kernel.org/pub/linux/utils/kernel/kmod	
boost	1.69.0	http://downloads.sourceforge.net/project/boost/boost/1.69.0	
icu	60.2	http://download.icu-project.org/files/icu4c/60.2	
bridge-utils	1.6	https://cdn.kernel.org/pub/linux/utils/net/bridge-utils	
busybox	1.29.3	http://www.busybox.net/downloads	
dosfstools	4.1	https://github.com/dosfstools/dosfstools/releases/download/v4.1	
e2fsprogs	1.44.5	https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.44.5	
iproute2	4.19.0	https://cdn.kernel.org/pub/linux/utils/net/iproute2	
iptables	1.8.2	https://netfilter.org/projects/iptables/files	
netcat	0.7.1	http://downloads.sourceforge.net/project/netcat/netcat/0.7.1	
ntp	4.2.8p13	https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2	
libedit	20180525-3.1	http://www.thrysoee.dk/editline	
libbsd	0.10.0	https://libbsd.freedesktop.org/releases	
libevent	2.1.8-stable	https://github.com/libevent/libevent/releases/download/release-2.1.8-stable	
libopenssl	1.1.1c	https://www.openssl.org/source	
pciutils	3.5.5	https://cdn.kernel.org/pub/software/utils/pciutils	

PACKAGE	VERSION	SOURCE SITE	
unzip	60	ftp://ftp.info-zip.org/pub/infozip/src	
usbutils	010	https://cdn.kernel.org/pub/linux/utils/usb/usbutils	
libusb	1.0.22	https://github.com/libusb/libusb/releases/download/v1.0.22	
c-ares	1.15.0	http://c-ares.haxx.se/download	
ca-certificates	20190110	http://snapshot.debian.org/archive/debian/20190513T145054Z/pool/main/c/ca-certificates	
cairo	1.15.12	http://cairographics.org/snapshots	
fontconfig	2.13.1	http://fontconfig.org/release	
freetype	2.9.1	http://download.savannah.gnu.org/releases/freetype	
libpng	1.6.37	http://downloads.sourceforge.net/project/libpng/libpng16/1.6.37	
libdrm	2.4.97	https://dri.freedesktop.org/libdrm	
libpthread- stubs	0.4	http://xcb.freedesktop.org/dist	
pixman	0.34.0	http://xorg.freedesktop.org/releases/individual/lib	
wayland	1.16.0	http://wayland.freedesktop.org/releases	
libxml2	2.9.9	http://xmlsoft.org/sources	
collectd	5.7.2	http://collectd.org/files	
libgcrypt	1.8.4	https://gnupg.org/ftp/gcrypt/libgcrypt	
libgpg-error	1.33	https://www.gnupg.org/ftp/gcrypt/libgpg-error	
lm-sensors	V3-5-0	https://github.com/lm-sensors/lm-sensors/archive/V3-5-0	
crda	4.14	https://git.kernel.org/pub/scm/linux/kernel/git/mcgrof/crda.git/snapshot	
libnl	3.4.0	https://github.com/thom311/libnl/releases/download/libnl3_4_0	
cryptsetup	2.0.6	https://cdn.kernel.org/pub/linux/utils/cryptsetup/v2.0	
json-c	0.13.1	https://s3.amazonaws.com/json-c_releases/releases	
lvm2	2.02.183	ftp://sources.redhat.com/pub/lvm2	
libaio	0.3.111	https://releases.pagure.org/libaio	
popt	1.16	http://rpm5.org/files/popt	
dhcp	4.3.6	http://ftp.isc.org/isc/dhcp/4.3.6	
dnsmasq	2.79	http://thekelleys.org.uk/dnsmasq	
dropbear	2018.76	https://matt.ucc.asn.au/dropbear/releases	
dvblast	3.4	https://get.videolan.org/dvblast/3.4	
libev	4.24	http://dist.schmorp.de/libev/Attic	
faad2	2.8.8	http://downloads.sourceforge.net/project/faac/faad2-src/faad2-2.8.0	
fbv	1.0b	http://s-tech.elsat.net.pl/fbv	
giflib	5.1.4	http://downloads.sourceforge.net/project/giflib	

PACKAGE	VERSION	SOURCE SITE	
jpeg-turbo	2.0.1	https://downloads.sourceforge.net/project/libjpeg-turbo/2.0.1	
ffmpeg	4.1.3	http://ffmpeg.org/releases	
libva	2.4.0	https://github.com/intel/libva/releases/download/2.4.0	
libvorbis	1.3.6	http://downloads.xiph.org/releases/vorbis	
libogg	1.3.3	http://downloads.xiph.org/releases/ogg	
libvpx	v1.7.0	https://github.com/webmproject/libvpx/archive/v1.7.0	
opus	1.3.1	https://downloads.xiph.org/releases/opus	
speex	1.2.0	https://downloads.xiph.org/releases/speex	
speexdsp	20e- d3452074664a- d07e380- e51321b148a- cebdf20	https://git.xiph.org/speexdsp.git	
file	5.36	ftp://ftp.astron.com/pub/file	
gdb	8.1.1	http://ftpmirror.gnu.org/gdb	
gnupg2	2.2.17	https://gnupg.org/ftp/gcrypt/gnupg	
libassuan	2.5.2	ftp://ftp.gnupg.org/gcrypt/libassuan	
libksba	1.3.5	ftp://ftp.gnupg.org/gcrypt/libksba	
libnpth	1.6	https://www.gnupg.org/ftp/gcrypt/npth	
sqlite	3280000	https://www.sqlite.org/2019	
gssdp	1.0.2	http://ftp.gnome.org/pub/gnome/sources/gssdp/1.0	
libsoup	2.62.3	http://ftp.gnome.org/pub/gnome/sources/libsoup/2.62	
gst1-libav	1.14.4	https://gstreamer.freedesktop.org/src/gst-libav	
gst1-plugins- base	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-base	
gstreamer1	1.14.4	https://gstreamer.freedesktop.org/src/gstreamer	
gst1-plugins- bad	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-bad	
wayland- protocols	1.17	http://wayland.freedesktop.org/releases	
gst1-plugins- good	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-good	
libv4l	1.16.3	https://linuxtv.org/downloads/v4l-utils	
qt5base	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
libinput	1.12.5	http://www.freedesktop.org/software/libinput	
libevdev	1.6.0	http://www.freedesktop.org/software/libevdev	
mtdev	1.1.4	http://bitmath.org/code/mtdev	
pcre2	10.32	https://ftp.pcre.org/pub/pcre	

PACKAGE	VERSION	SOURCE SITE	
gst1-vaapi	1.14.4	https://gstreamer.freedesktop.org/src/gstreamer-vaapi	
htop	2.2.0	http://hisham.hm/htop/releases/2.2.0	
hwdata	v0.308	https://github.com/vcrhonek/hwdata/archive/v0.308	
input-event- daemon	v0.1.3	https://github.com/gandro/input-event-daemon/archive/v0.1.3	
iperf3	3.6	https://downloads.es.net/pub/iperf	
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	
json-for- modern-cpp	v3.5.0	https://github.com/nlohmann/json/archive/v3.5.0	
jsoncpp	1.8.4	https://github.com/open-source-parsers/jsoncpp/archive/1.8.4	
libarchive	3.3.3	http://www.libarchive.org/downloads	
libconfig	v1.7.2	https://github.com/hyperrealm/libconfig/archive/v1.7.2	
libcurl	7.65.3	https://curl.haxx.se/download	
libestr	0.1.10	http://libestr.adiscon.com/files/download	
libfastjson	v0.99.8	https://github.com/rsyslog/libfastjson/archive/v0.99.8	
libhttpparser	v2.9.0	https://github.com/nodejs/http-parser/archive/v2.9.0	
liblogging	1.0.6	http://download.rsyslog.com/liblogging	
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	
libopusenc	0.2.1	https://downloads.xiph.org/releases/opus	
libpcap	1.9.0	http://www.tcpdump.org/release	
libqrencode	4.0.0	http://fukuchi.org/works/qrencode	
libsha1	0.3	https://github.com/dottedmag/libsha1/archive/0.3	
libtool	2.4.6	http://ftpmirror.gnu.org/libtool	
libuv	v1.25.0	https://github.com/libuv/libuv/archive/v1.25.0	
libxkbcommon	0.8.2	http://xkbcommon.org/download	
libyaml	0.2.1	http://pyyaml.org/download/libyaml	
libzip	1.5.1	http://www.nih.at/libzip	
lighttpd	1.4.53	http://download.lighttpd.net/lighttpd/releases-1.4.x	
logrotate	3.13.0	https://github.com/logrotate/logrotate/archive/3.13.0	
memtester	4.3.0	http://pyropus.ca/software/memtester/old-versions	
monit	5.25.3	http://mmonit.com/monit/dist	

PACKAGE	VERSION	SOURCE SITE	
netsnmp	5.8	https://downloads.sourceforge.net/project/net-snmp/net-snmp/5.8	
nodejs	8.15.1	http://nodejs.org/dist/v8.15.1	
opkg	0.3.6	http://downloads.yoctoproject.org/releases/opkg	
opus-tools	0.2	https://downloads.xiph.org/releases/opus	
opusfile	0.11	https://downloads.xiph.org/releases/opus	
php	7.3.9	http://www.php.net/distributions	
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	
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	
qt5declarative	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5xmlpat- terns	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5graphica- leffects	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5imagefor- mats	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5multimedia	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5quickcon- trols	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5quickcon- trols2	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5serialport	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5svg	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5tools	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5webchan- nel	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5websock- ets	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
qt5webengine	5.12.4	https://download.qt.io/archive/qt/5.12/5.12.4/submodules	
webp	1.0.1	http://downloads.webmproject.org/releases/webp	
ramspeed	2.6.0	http://www.alasir.com/software/ramspeed	
rsync	3.1.3	http://rsync.samba.org/ftp/rsync/src	
rsyslog	8.22.0	http://rsyslog.com/files/download/rsyslog	

PACKAGE	VERSION	SOURCE SITE	
strace	4.26	https://strace.io/files/4.26	
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	
weston	5.0.0	http://wayland.freedesktop.org/releases	
wireless- regdb	2019.06.03	https://cdn.kernel.org/pub/software/network/wireless-regdb	
wireless_tools	30.pre9	https://hewlettpackard.github.io/wireless-tools	
xkeyboard- config	2.23.1	http://www.x.org/releases/individual/data/xkeyboard-config	
zip	30	ftp://ftp.info-zip.org/pub/infozip/src	
splashutils	1.5.4.4	http://dev.gentoo.org/~spock/projects/gensplash/archive	
libresample	0.1.3	ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample	
ta-arm-eabi	5_4-2016q3- 20160926	https://launchpad.net/gcc-arm-embedded/5.0/5-2016-q3-update/ +download	
alsa-plugins	1.1.1	ftp://ftp.alsa-project.org/pub/plugins	
arphic-uming- fonts	20080216	http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming	
dejavu-fonts	2.34	http://downloads.sourceforge.net/project/dejavu/dejavu/2.34	
sazanami- fonts	20040629	http://sourceforge.jp/projects/efont/downloads/10087	
unfonts	1.0	http://kldp.net/frs/download.php/1425	
liblockfile	1.09	http://snapshot.debian.org/archive/debian/20151026T153523Z/pool/main/libl/liblockfile	
lockfile-progs	0.1.17	http://snapshot.debian.org/archive/debian/20141023T043132Z/pool/main/l/lockfile-progs	
mmc-utils	37c86e60c0442- fef570b75c- d81aeb1db4d0- cbafd	git://git.kernel.org/pub/scm/linux/kernel/git/cjb/mmc-utils.git	
usbmount	0.0.22	http://snapshot.debian.org/archive/debian/20141023T043132Z/pool/main/u/usbmount	
json	1.8.4-cs2	http://json.org/	
flexnet	1.0.5	https://www.flexerasoftware.com/monetize/products/flexnet-licensing.html	
qca6174a-30	4.5.25.38	https://source.codeaurora.org/external/wlan/qcacld-2.0	
wpa_ supplicant	a5ffe45908- cae43925bb5c- b13d98251- c802b4717	http://w1.fi/hostap.git	

PACKAGE	VERSION	SOURCE SITE	
wpa_ passphrase	a5ffe45908- cae43925bb5c- b13d98251-	http://w1.fi/hostop.git	
<u> </u>	c802b4717 a5ffe45908- cae43925bb5c- b13d98251-	http://w1.fi/hostap.git	
wpa_cli	c802b4717	http://w1.fi/hostap.git	
hostapd	a5ffe45908- cae43925bb5c- b13d98251- c802b4717	http://w1.fi/hostap.git	
hostapd_cli	a5ffe45908- cae43925bb5c- b13d98251- c802b4717	http://w1.fi/hostap.git	
rscode	1.3	https://sourceforge.net/projects/rscode/files/rscode	
		https://tukaani.org/xz	
XZ	5.1.1	https://github.com/secure-remote-password/stanford-srp/tree/master/	
libsrp	2.1.2	libsrp	
libfdk-aac	0.1.4	https://github.com/mstorsjo/fdk-aac	
libalac	4	https://github.com/macosforge/alac	
mDNSRes- ponder	878.30.4	https://opensource.apple.com/source/mDNSResponder	
nlohmann:: json	3.7.3	https://github.com/nlohmann/json	
azure-iot-c- sdk	2019-10-07	https://github.com/Azure/azure-iot-sdk-c	
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	0.3.3	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	

PACKAGE	VERSION	SOURCE SITE	
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	2.27.0	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	
reflect- metadata	0.1.13	http://rbuckton.github.io/reflect-metadata	
rxjs	6.3.3	https://github.com/ReactiveX/RxJS https://github.com/APIDevTools/swagger-parser https://github.com/scottie1984/swagger-ui-express	
swagger- parser	6.0.5		
swagger-ui- express	4.0.1		
microsoft- graph-client	2.0.0	https://github.com/microsoftgraph/msgraph-sdk-javascript	
isomorphic- fetch	2.2.1	https://github.com/matthew-andrews/isomorphic-fetch	
promise	8.1.0	https://github.com/then/promise	
request	2.88.2	https://github.com/request/request	
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/zone.js	
uboot	f44ca27357563- e9ed43f1ff76d3- bd8dd14f4747e	https://github.com/rockchip-linux/u-boot	
linux	805e544f539- b96d- e96388960173- bb673dab5a9dd	https://github.com/rockchip-linux/kernel	
avb-vbmeta	21e95266704- e572ced1c633- bbc4aea9f42a- fa0a5	https://android.googlesource.com/platform/external/avb/ +/21e95266704e572ced1c633bbc4aea9f42afa0a5/avbtool	

PACKAGE	VERSION	SOURCE SITE
bootcontrol	b18c9afdb7- d02e1249cee5- cb430dc9f15a3- ccc27	https://github.com/rockchip-linux/avb/tree/master/boot_control
libavb	7617e69a524a- cc1a50a8a98- b257d1374ea6f- e4a4	https://github.com/rockchip-linux/avb/tree/master/libavb
libavb-ab	7617e69a524a- cc1a50a8a98- b257d1374ea6f- e4a4	https://github.com/rockchip-linux/avb/tree/master/libavb_ab
libavb-user	7617e69a524a- cc1a50a8a98- b257d1374ea6f- e4a4	https://github.com/rockchip-linux/avb/tree/master/libavb_user
rockchip- linux-bin	d6676eb02- c8a1b4966df7- d8c4bb203e- a25fc98b2	https://github.com/rockchip-linux/bin
rockchip-tee- user	1e3bdb582- c52707d71e5c- be29- ca1064d7c04- b696	https://github.com/rockchip-linux/rk_tee_user
rockchip- binary	04e55089bb4b- ba- de7c50d9b54- b5a1c- fa70771cd6	https://github.com/rockchip-linux/rkbin
rockchip- gstreamer1	59c3bdd06- a22844957fe20- f47c998bb8255- bedd2	https://github.com/rockchip-linux/gstreamer-rockchip
rockchip-mpp	862b0d89363- e18e45e5db5c- c6c316a173- c5ac2e7	https://github.com/rockchip-linux/mpp
rockchip- libmali	f226- e982386287a4- df669e2832d9d- dd613d4153b	https://github.com/rockchip-linux/libmali
rockchip- linux-rga	72e7764a9f- e358e6a- d50eb1b21176- cc95802c7fb	https://github.com/rockchip-linux/linux-rga
NXP-SDK	2.5.0	https://www.nxp.com/support/developer-resources/software-development-tools/mcuxpresso-software-and-tools/mcuxpresso-software-development-kit-sdk:MCUXpresso-SDK?tab=Design_Tools_Tab
unlz4	-	https://github.com/lz4/lz4/blob/dev/lib/lz4.h

PACKAGE	VERSION	SOURCE SITE
ring-buff	-	https://code.google.com/archive/p/ring-buff
wpa_ supplicant	2.6	http://w1.fi/wpa_supplicant

Federal Communication Commission Interference Statement

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

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

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

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

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

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

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

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

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

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

Base Unit FCC ID: 2AAED-R9861511

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

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

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

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

For coutry code selection usage (WLAN devices):

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

Canada, Industry Canada (IC) Notices

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

Radio Frequency (RF) Exposure Information

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

Caution: Exposure to Radio Frequency Radiation.

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

Base Unit IC: IC: 21559-R9861511

Button IC (model R9861600D01C): 21559-R9861600D01

IC Antenna statement

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

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

Indoor use only warning

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

Certification information (SAR)

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

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

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

Canada, avis d'Industry Canada (IC)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil Barco est inférieure à la limite d'exposition aux fréquences radio d'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 Base Unit: 23575-R9861511

IC Button (modèle R9861600D01C): 21559-R9861600D01

Déclaration d'antenne d'Industrie Canada (IC)

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

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

Utilisation à l'intérieur seulement

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

Informations de certification (DAS)

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

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

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

Table of contents

1	Intro	duction to the Installation Guide	25
	1.1	Documentation	26
	1.2	Symbols and fonts	26
2	C-10	, C-5 Specifications	27
	2.1	About the C-10, C-5	28
	2.2	C-10, C-5 Specifications	29
	2.3	About the Base Unit	32
	2.4	Mobile Device Support	33
3	Getti	ng started	35
	3.1	Environmental Condition Check	36
	3.2	Basic Workflow	36
4	C-10	, C-5 Installation	37
	4.1	Installation methods for the Base Unit	38
	4.2	Table mounting	38
	4.3	Wall or ceiling mounting	38
	4.4	Out-of-the-box use of the Base Unit	40
	4.5	Network connected setup	41
	4.6	Dedicated network setup	41
	4.7	Video signal connections to the Base Unit	42
	4.8	Touch screen connections to the Base Unit	43
	4.9	LAN connection	43
	4.10	Power connection	44
	4.11	Starting up for the first time	44
	4.12	First setup of the Base Unit	45
	4.13	Registration to XMS Cloud	46
	4.14	Use without registration of the device	48
	4.15	Basic configuration of the ClickShare device	51
5	Prep	aring the Buttons	55
	5.1	Pairing	56
	5.2	ClickShare Extension Pack	
	5.3	ClickShare Extension Pack installer	57
	5.4	ClickShare Windows Certified driver	58
	5.5	ClickShare Desktop app	58

6	C-10	, C-5 Configurator	61
	6.1	Accessing the Configurator	
	6.2	ClickShare Configuration Wizard	66
	6.3	On-Screen ID information	69
	6.4	Personalisation, Wallpaper	71
	6.5	Personalisation, Personalized wallpaper	72
	6.6	Manage configuration files	74
	6.7	Display & Audio setup	75
	6.8	Peripherals	76
	6.9	Wi-Fi settings	76
	6.10	Wi-Fi settings, Access Point settings	77
	6.11	Wi-Fi settings, Wireless Client	
	6.12	Wi-Fi settings, Wireless Client, EAP-TLS	80
	6.13	Wi-Fi settings, Wireless Client, EAP-TTLS	
	6.14	Wi-Fi settings, Wireless Client, PEAP	
	6.15	Wi-Fi settings, Wireless Client, WPA2-PSK	
	6.16	LAN settings	
	6.17	Services, Mobile devices	
	6.18	Service, ClickShare API, remote control via APIAPI	
	6.19	Services, SNMP	
	6.20	Security, security level	
	6.21	Security, passwords	
	6.22	Status information Base Unit	
	6.23	Date & Time setup, manually	
	6.24	Date & Time setup, time server	
	6.25	Energy savers	
	6.26	Buttons	
	6.27	Buttons, External access point, mode EAP-TLS	
	6.28	Buttons, External access point, mode EAP-TTLS	
	6.29	Buttons, External access point, mode PEAP	
	6.30	Buttons, External access point, mode WPA2-PSK	
	6.31	Blackboard	
	6.32	XMS Cloud Integration	
	6.33	Firmware Update	
	6.34	Support & Updates, Troubleshoot, log settings	
	6.35	Troubleshooting, Erase all settings	
	6.36	Reset to factory defaults	106
7		ware updates	
	7.1	Updating the C-10, C-5 firmware	110
8	Troub	oleshooting	
	8.1	Troubleshooting list	112
	Index	ζ	115

Introduction to the Installation Guide

1.1	Documentation	2	e
1.1	Documentation	2	v
12	Symbols and fonts	2	6

1.1 Documentation

About the documentation

This installation guide explains how to install your C-10, C-5 in a meeting room, It explains also how to make everything operational. It provides detailed information on how to configure your C-10, C-5.

Available System documentation

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

A printed copy of the Safety Guide is included in the C-10, C-5 box at purchase.



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

1.2 Symbols and fonts

Symbol overview

The following icons are used in the manual:

1	Caution
4	Warning
0	Info, term definition. General info about the term
	Note: gives extra information about the described subject
P	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.

C-10, C-5 Specifications

2

2.1 About the C-10, C-5

C-10, C-5 sets

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

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

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

At the moment 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

For C-10:

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

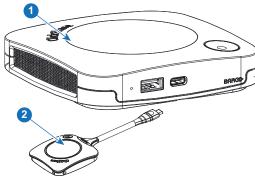


Image 2-1

- 1 Base Unit
- 2 Button

For C-5:

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



Image 2-2

Accessories included

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

Products	Box content	
C-10, R9861511xx ²	 R9861511 1 x R9861600D1C³ DC adapter with AC clips type A, C, G, I⁴ Wall mount system Printed safety manual 	
C-5, R9861505xx ²	 R9861511 DC adapter with AC clips type A, C, G, I⁴ Wall mount system Printed safety manual 	
R9861600D01C ³ , ⁵	1 x R9861600D1C ³ , ⁵	

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

2.2 C-10, C-5 Specifications

Base Unit C-10

Dimensions (HxWxD)	34 mm x 135 mm x 135 mm
Power supply	Standard 110/220 V AC plug
Power consumption	Operational: 5-10W, 24W Max
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
Audio output	НДМІ
USB	1 X USB-A, 1 X USB-C
ClickShare Buttons	1
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

xx=EU, CN, NA, US, ZH, RW, For US, R9861600D1CUS

Included AC clips can be different according to the region

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 (front); 1x USB Type A 2.0 (front)
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)	No
Local view & moderation	Local view and moderation*
Network connection	LAN & WiFi
Management and reporting	Yes
Warranty	1 year standard. 5 years coverage via SmartCare
*	* depends on configuration, available in future firmware updates

Base Unit C-5

Dimensions (HxWxD)	34 mm x 135 mm x 135 mm
Power supply	Standard 110/220 V AC plug
Power consumption	Operational: 5-10W, 24W Max
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
Audio output	НДМІ
USB	1 X USB-A, 1 X USB-C
ClickShare Buttons	0
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

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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	
Room Dock (peripheral support)	No
Local view & moderation	Local view of the room display only
Network connection	LAN & WiFi
Management and reporting	Yes
Warranty	1 year standard. 5 years coverage via SmartCare
*	* depends on configuration, available in future firmware updates

Button

Weight	60 gr - 0.132 lb
Frequency band	2.4 GHZ and 5 GHz
Wireless transmission protocol	IEEE 802.11 a/b/g/n/ac
Authentication protocol	WPA2-PSK in stand alone mode WPA2-PSK or IEEE 802.1X in network integration mode
Connectors	USB-C type
Dimensions (HxWxD)	14.6 mm x 59.3 mm x 161.39 mm / 0.57" x 2.354" x 6.354"
Power consumption	Powered over USB 5V DC 350mA Typical 500mA Maximum

2.3 About the Base Unit

Base Unit functionality

The Base Unit receives the wireless input and controls the content of the meeting room display.

The Base Unit can be put on the meeting room table or mounted on a wall or ceiling. Check the installation guide for instructions on how to install the Base Unit.

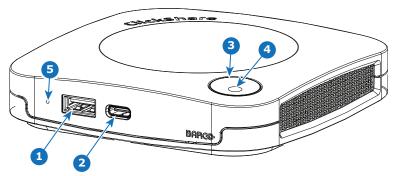


Image 2-3

1	USB Type-A port	(USB 2.0)
		(000 2.0)

2 US	B Type-C por	t (USB 2.0)
------	--------------	-------------

- 3 Status LED ring
- 4 Standby button
- 5 Hardware reset button

USB ports

The USB Type- C^{TM} is used to pair the (optional) available Buttons. The USB Type- C^{TM} and USB Type-A can be used to update the Base Unit firmware when not done via XMS.

When plugging in the (optional) 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.

The use of a convertor is sometimes necessary to connect to one of these ports.

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	 receiving content from the Button and streaming towards the display. during the first phase of the Base Unit boot process.
blinking white	system is starting up (during the second phase)Button pairing is in progresssoftware update of the Base Unit
breathing white	ECO standby mode
static white	 awake and ready (i.e. showing the welcome message on the display) pairing and software update of the Button is done, you can now unplug the Button from the Base Unit

LEDs behavior	Explanation
red blinking	an error occurred
dark	deep standby/off

Back layout of the Base Unit

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

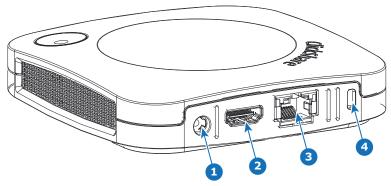


Image 2-4

1	Power connection
2	HDMI out
3	LAN Ethernet connection
1	Kanaington look

4 Kensington lock

Mechanical fixture points

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

Antenna

The antenna is built-in in the C-10, C-5.

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 ..."

2.4 Mobile Device Support

Overview

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

Before you can use your mobile device with ClickShare, you have to connect the mobile device Wi-Fi with the ClickShare Base Unit Wi-Fi. Follow the instructions as given in your mobile device user guide. Or connect the Base Unit to the network, then you do not need to switch your Wi-Fi.

App Used on
ClickShare App iOS
Android
Windows

Mac OS

Apps can be downloaded from $\underline{\textit{www.clickshare.app}}$.

Getting started

3.1	Environmental Condition Check	.36
	Basic Workflow	36

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 C-10, C-5

- Unpack your device and accessories from the box.
 For a detailed overview of the content of the C-10, C-5 box, see "C-10, C-5 Specifications", page 29
- Install the Base Unit in the meeting room using one of the possible installation methods.For more information on the installing procedures, see "Installation methods for the Base Unit", page 38
- Connect the video signal between the Base Unit and the display, see "Video signal connections to the Base Unit", page 42.
- 4. 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).
- 5. Connect the Base Unit to the mains power.
 - For more information, see "Power connection", page 44,
- 6. Register you device, see "Registration to XMS Cloud", page 46.
- 7. Pair your (optional) Button, see "Pairing", page 56

C-10, C-5 Installation

4.1	Installation methods for the Base Unit	38
4.2	Table mounting	38
4.3	Wall or ceiling mounting	38
4.4	Out-of-the-box use of the Base Unit	40
4.5	Network connected setup	4
4.6	Dedicated network setup	4
4.7	Video signal connections to the Base Unit	42
4.8	Touch screen connections to the Base Unit	43
4.9	LAN connection	43
4.10	Power connection	44
4.11	Starting up for the first time	44
	First setup of the Base Unit	
4.13	Registration to XMS Cloud	46
4.14	Use without registration of the device	48
	Rasic configuration of the ClickShare device	51

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
- Ceiling mount

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
- Integration in enterprise network
- Dual network integration
- Integration in dedicated enterprise network

4.2 Table mounting

Overview

Put the Base Unit directly on the meeting room table.

The total weight of the Base Unit is 530 g.

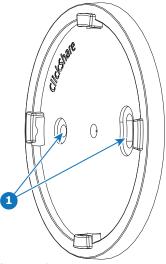
4.3 Wall or ceiling mounting

About wall or ceiling mounting

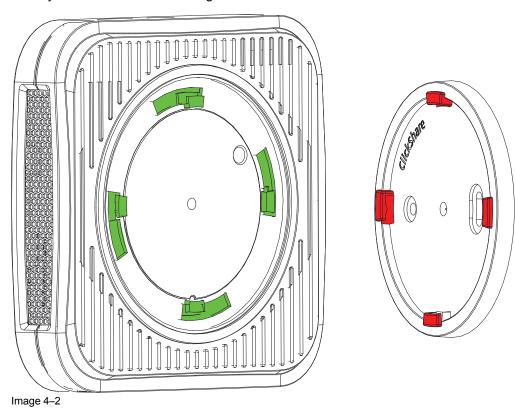
A mounting base is used to mount the C-10, C-5t o the wall or ceiling. This base has key-shaped screw holes to allow you to fasten the base to a wall or ceiling or you can use the self-adhesive layer to mount the base. Once you determine the location for your device follow the next procedure to mount the device.

Mounting with screws

- Take the mounting base out of the package.
- 2. Place the mounting base on the wall or ceiling and mark the screw holes (1).

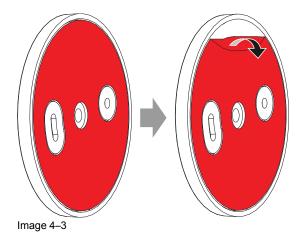


- Image 4-1
- 3. Select a drill bit slightly smaller than the size of the used anchors to ensure a snug fit.
- 4. Drill the holes where marked.
- **5.** Tap plastic screw anchors into the drill holes with a hammer (if needed, depending on the wall or ceiling type).
- 6. Place the mounting base on the ceiling or wall, drive in the screws.
- 7. Place your device on the mounting base and turn it clockwise until it is locked.



Mounting with the self-adhesive layer

1. Peel off the removable protection foil.



- 2. Stick the base on the chosen location.
- 3. Place your device on the mounting base and turn it clockwise until it is locked (Image 4–2).

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

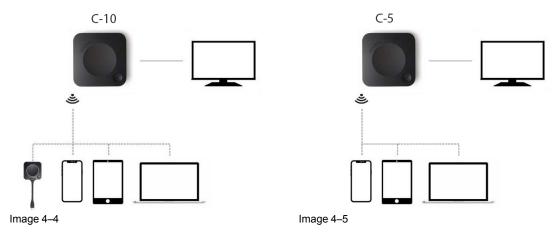
Overview

This setup is the simplest in terms of installation and can be used for temporary setups and in organizations where central management and 3rd party integration are not required.

The ClickShare Base Unit and (optional) Button 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 Button, 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. Note that this requires the Base Unit's access point is not turned off, is visible and can be connected to by anyone.

Sharing via Miracast will only be possible via Wi-Fi direct.



Using the ClickShare Base Unit and Button 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.

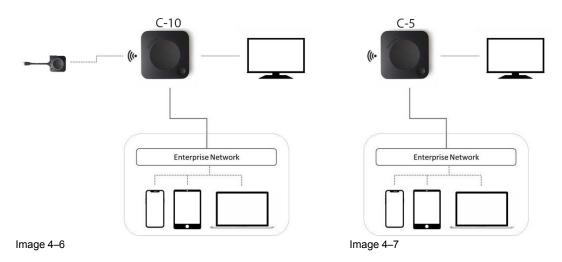
4.5 Network connected setup

Overview

This is the simplest installation which offers a seamless experience for employees and is the recommended setup for temporary setups, visitors' centers, small to medium installations without network integration needs, for internal meeting rooms, for companies with a flat network topology or when the ClickShare Button will be the main way for people to the system.

In this default mode, (optional) ClickShare Button and Base Unit operate directly out of the box (Button must be paired to the Base Unit before it can be used) and users can share to the Base Unit with the ClickShare Desktop App, the ClickShare Mobile App, AirPlay, Google Cast via the network to which the Base Unit is connected without losing the internet connectivity. Sharing via Miracast depends on the configuration of the device.

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.



4.6 Dedicated network setup

Overview

This installation offers an isolated network setup where all connections from and to the Base Units can be controlled. This dedicated AV (or ClickShare) network or VLAN can be used for more fine-grained access control, to ensure no connection can happen between any of the connected physical or virtual LANs or to separate all ClickShare traffic from all other IP traffic to ensure business requirements in terms of bandwidth, security and latency.

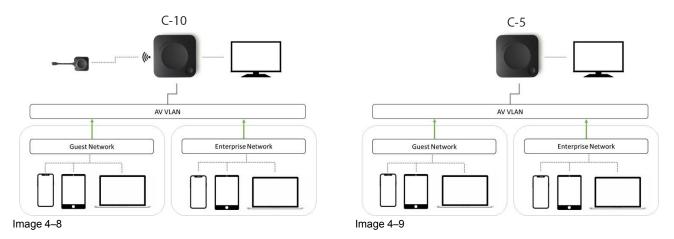
In this setup, the configurations can widely differ depending on network topology and security requirements in the organization. Here, we will describe a simple setup where the Base Unit is placed in a dedicated AV VLAN, a commonly used practice within organizations.

In this setup, ClickShare Buttons and Base Unit operate directly out of the box (Buttons must be paired to the Base Unit before they can be used)). Since the Base Unit has been installed in a dedicated network, firewall configuration will be required to enable the use of the ClickShare Desktop App, the ClickShare Mobile App, AirPlay and Google Cast over the network

If the firewall is not configured to allow connections from either the guest Wi-Fi or the employee Wi-Fi, users can connect to the wireless access point of the Base Unit to share with the ClickShare Desktop App, ClickShare Mobile App, AirPlay and Chromecast and will only be able to access the internet if the device supports to use data (3G/4G/5G) at the same time. Note that this requires that the Base Unit's access point is not turned off, is visible and can be connected to by anyone. Mobile users are limited to the experience described in the standalone setup. For Miracast, the Base Unit will have to be configured for Miracast to offer a Wi-Fi direct connection.

Connecting the Base Unit to the Enterprise network opens the possibility for using the eXperience Management Suite (XMS) for central management and/or using the auto-update functionality to keep your installed base up to date.

A Base Unit which is connected to the network, can be monitored through SNMP, can be controlled and monitored by other 3rd party systems such as Overture or Crestron or can be interfaced through the ClickShare RESTAPI.



How to setup via the Configurator

- 1. Connect the Base Unit and browse to the ClickShare Configurator and log in.
- Select Button in the System menu and click Edit settings.

Select External Access Point from the drop down menu and select the preferred authentication mode and fill out the details.

Click **Save Changes**. For more information, see "Buttons", page 96

- Pair the Button again with the Base Unit.
- Optionally the Base Unit's WiFi can be set to Access Point or can be set to Off. For more info, see "Wi-Fi settings, Wireless Client", page 79

Setup via XMS

- 1. Log in to XMS and go to the Base Units tab.
- 2. In the device list select the Unit(s) for deploying network integration mode.
- 3. Open the Configure dropdown list and choose Network integration.
- 4. Select one of the authentication modes for network integration mode and fill out the details.
- 5. Re-pair the ClickShare Button with the updated Base Unit(s) to apply the new configuration For more detailed information on how to use XMS, consult the XMS user guide.

4.7 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 4-10 Display connection

4.8 Touch screen connections to the Base Unit



Only available on C-10.

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 https://www.barco.com/en/support/docs/TDE9538.

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.

4.9 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.
- Connect the other side to a LAN.

4.10 Power connection

About power

An external power adapter is delivered with the product. The output rate is 12 VDC 2A.



CAUTION: Once the Base Unit is powered, it starts up. Then the power button can be used to switch on or off.

How to connect the external power adapter

- 1. Plug the barrel connector of the power adapter into the power input of the Base Unit.
- 2. Slide a power input adaptor piece (US, AU, IN, CH, EU or UK) on the power adapter of the ClickShare until it clicks. Use the one

which is applicable in your country.



Image 4–11 Power adapter

3. Connect the power cable to the wall outlet.

4.11 Starting up for the first time

How to startup

The following steps are necessary before the Base Unit can be used:

- 1. Connect the screen and the power to the Base Unit.
- 2. Base Unit needs Internet access to start up for the first time. The Base Unit updates to the latest firmware version.
- 3. Register and configure your device in XMS cloud.
- 4. Pair the (optional) Button with the Base Unit.
- 5. Base Unit is ready to use.

4.12 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. First time boot of the Base Unit.

The following screen can be seen on the Base Unit's main output when it is not connected to any network. Note that the bottom part of this image, which allows the configuration of a wireless client connection, can only be found on Base Units with production firmware 2.8 or higher.

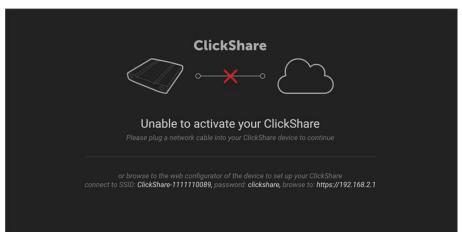


Image 4-12

This screen can show up when either no network cable is connected to the Base Unit, when additional configuration is required or when network requirements for the first time setup of the Base Unit have not been met.

Connect the device to the network, either connect the LAN cable to the Base Unit or access the web interface of the device by following the instructions under the full line on the screen and configure the network settings for the Base Unit.

The system checks for updates.

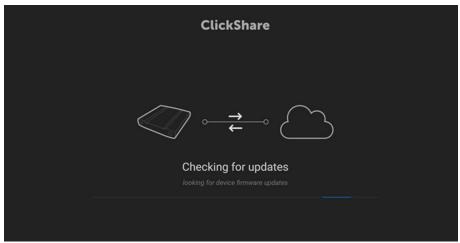


Image 4-13

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.

4.13 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 by the reseller in the name of the customer.

Online to XMS cloud

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



Image 4-14

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.

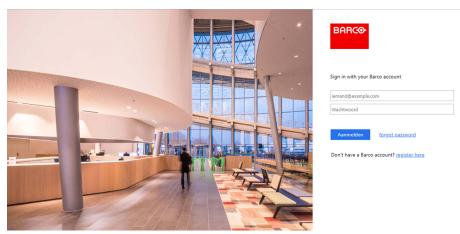


Image 4-15 Sign in page

3. Click Sign in.

The XMS cloud welcome page is displayed.

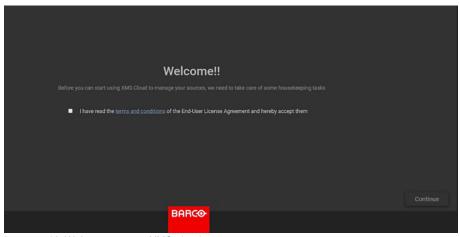


Image 4-16 Welcome page to XMS-cloud

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

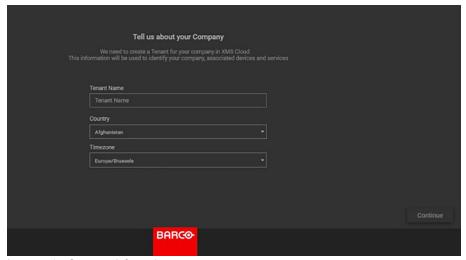


Image 4–17 Company information

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 4–14)

Click Continue.

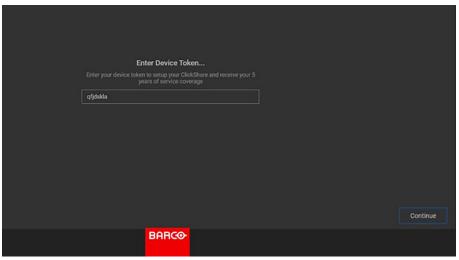


Image 4–18 Enter device token

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

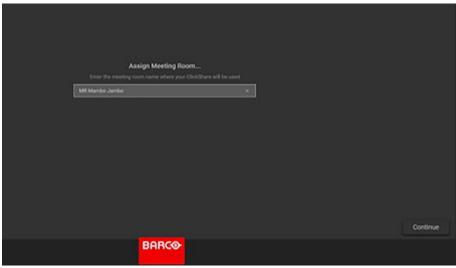


Image 4-19 Assign meeting room

Your device is successfully registered.

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



Image 4–20 Start pairing buttons

The wallpaper page will be displayed.

4.14 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

How to handle

1. Connect the device's WiFi with the instruction given on the wallpaper.

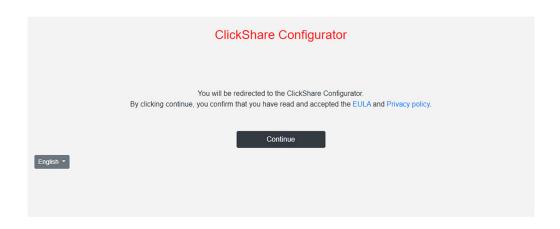
The default SSID is ClickShare-<serial number>.

Password: clickshare

2. Once your WiFi connection is made, continue with the network setting of your device.

Browse to http://192.168.2.1

The ClickShare Configurator starts up.

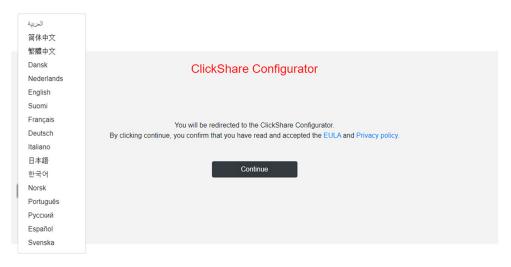


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BARCO

Image 4-21 Configurator startup

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



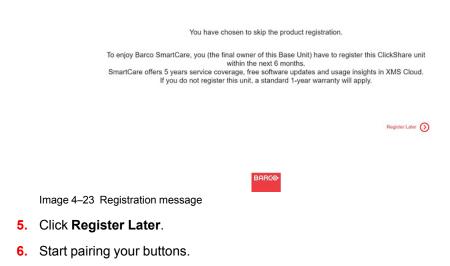
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Image 4-22 Configurator, language selection

4. Click Continue to start.

A registration message is displayed.







BARCO

Image 4–24 Start pairing

 Start configuring the network settings. For more info, see "Basic configuration of the ClickShare device", page 51



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

XMS Cloud note in Configurator

When browsing in the Configurator to $System \rightarrow XMS$, you will see a XMS Cloud integration message how to register it and the token to use.

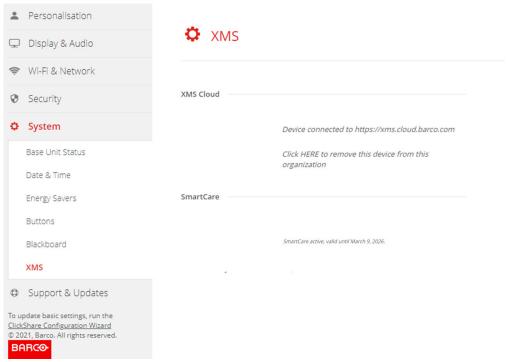


Image 4-25 XMS cloud message

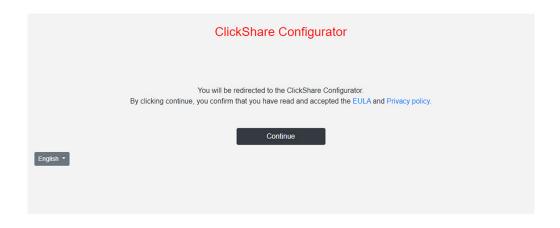
4.15 Basic configuration of the ClickShare device



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.



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Image 4–26 Configurator startup



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

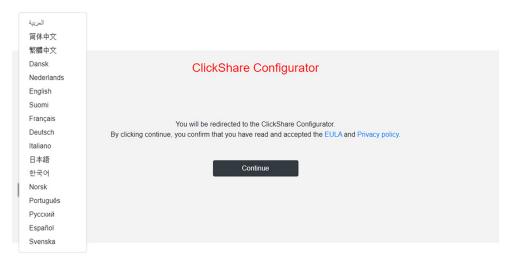




Image 4-27 Configurator, language selection

- 3. Click **Continue** to start.
 - A registration message is displayed.
- 4. Click **Next** to continue.

The Configurator Login page is displayed.

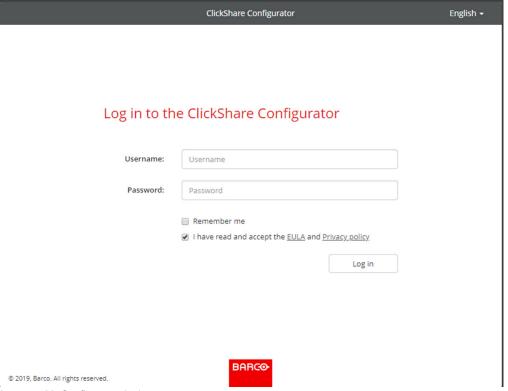


Image 4–28 Configurator, login page

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.

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

5.1	Pairing	56
5.2	ClickShare Extension Pack	57
	ClickShare Extension Pack installer	
	ClickShare Windows Certified driver	
	ClickShare Desktop app	

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 Button 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 the USB type-CTM port available on the Base Unit you are using.

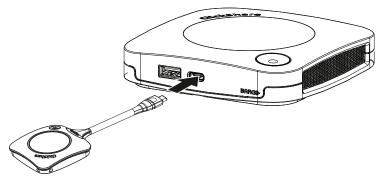


Image 5-1 Pair Button

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.
- 2. Unplug the Button from the Base Unit.

The Button is now ready for use.



Image 5–2

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

- 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.

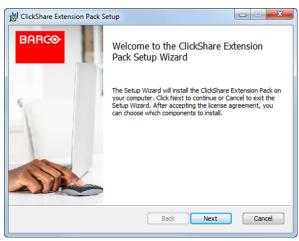


Image 5–3

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



ER

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- 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 **1.18.0** 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.

When using Outlook as your main agenda, you get also an immediate overview of your next meetings. No need to search for the appointment or invite in Outlook. Just click Join to join your conference call.

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 $\underline{www.clickshare.app}$.

Preparing the Buttons

C-10, C-5 Configurator

0. 1	Accessing the Configurator	
6.2	ClickShare Configuration Wizard	66
6.3	On-Screen ID information	
6.4	Personalisation, Wallpaper	71
6.5	Personalisation, Personalized wallpaper	72
6.6	Manage configuration files	74
6.7	Display & Audio setup	75
6.8	Peripherals	76
6.9	Wi-Fi settings	76
6.10	Wi-Fi settings, Access Point settings	77
6.11	Wi-Fi settings, Wireless Client	
6.12	Wi-Fi settings, Wireless Client, EAP-TLS	
6.13	Wi-Fi settings, Wireless Client, EAP-TTLS	82
6.14	Wi-Fi settings, Wireless Client, PEAP	83
6.15	Wi-Fi settings, Wireless Client, WPA2-PSK	84
6.16	LAN settings	
6.17	Services, Mobile devices	
6.18	Service, ClickShare API, remote control via API	89
6.19	Services, SNMP	89
6.20	Security, security level	90
6.21	Security, passwords	92
6.22	Status information Base Unit	
6.23	Date & Time setup, manually	93
6.24	Date & Time setup, time server	95
6.25	Energy savers	95
6.26	Buttons	
6.27	Buttons, External access point, mode EAP-TLS	97
6.28	Buttons, External access point, mode EAP-TTLS	99
6.29	Buttons, External access point, mode PEAP	. 100
6.30	Buttons, External access point, mode WPA2-PSK	. 101
6.31	Blackboard	. 101
6.32	XMS Cloud Integration	. 102
6.33	Firmware Update	
6.34	Support & Updates, Troubleshoot, log settings	. 104
6.35	Troubleshooting, Erase all settings	
6 36		106

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

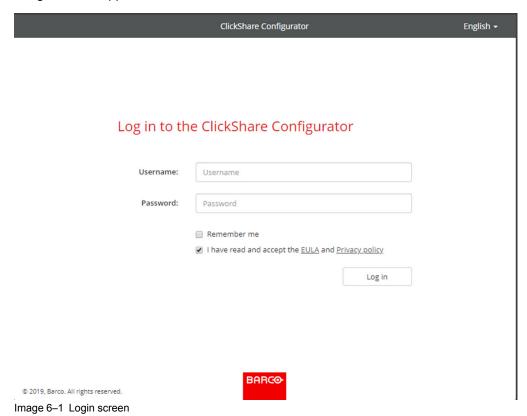
When accessing the configurator for the first time, the ClickShare Configuration Wizard starts automatically.

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 Microsoft Edge, Firefox, Google Chrome and Safari.
- 2. Browse to the IP address of your device.
 - Note: If you do not know the IP address due to Show network info is disabled, connect via a direct connection or via a wireless connection to your device to discover the wired IP address.

A login screen appears.



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

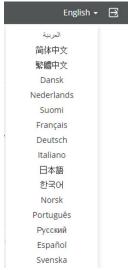


Image 6-2 Configurator lanuguages

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.

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.

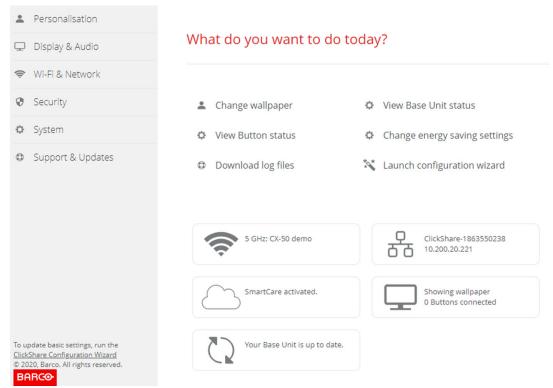


Image 6-3 Start screen

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 SSID
- · the number of Buttons connected
- · the system state
- the SmartCare state

Each of these boxes are also direct links to the described function.



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.
 - Moto: Cupported bro
 - Note: Supported browsers are Internet Explorer, Firefox and Safari.
- 3. Browse to http://192.168.1.23.

A login screen appears.

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. The wired IP address is given on the startup page.

To access the Configurator via the Base Unit wireless network

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

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

2. On your laptop, open a browser.



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

3. Browse to http://192.168.2.1.

A login screen appears.

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

By default the password is set to 'admin'.

The configurator opens. The wired IP address is given on the startup page.



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.

Overview of functions

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

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.

configuration

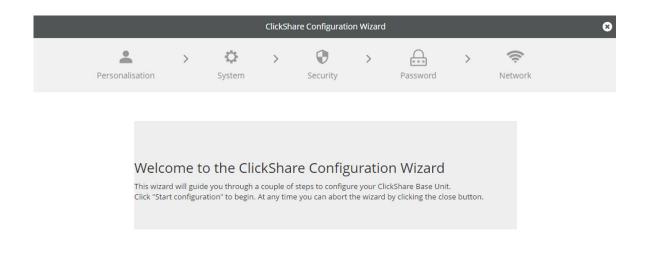




Image 6-4 Configuration wizard

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

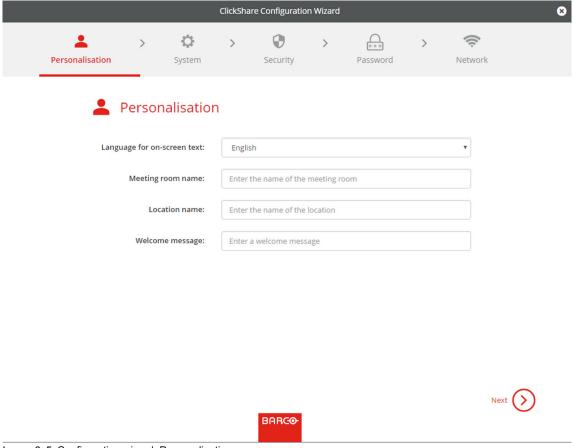


Image 6–5 Configuration wizard, Personalisation

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

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

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

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

Personalisa-	Language on-screen text	See "On-Screen ID information", page 69.	
tion	Meeting room name, location name and welcome message	See "On-Screen ID information", page 69.	
System	Time zone, manual time setup	See "Date & Time setup, manually", page 93.	
	Use NTP	See "Date & Time setup, time server", page 95.	
Security	Level settings	See "Security, security level", page 90.	
Password	ClickShare Configurator (WebUI) password	See "Security, passwords", page 92.	
Network	Frequency band, channel Wi-Fi passphrase	See "Wi-Fi settings, Wireless Client", page 79.	

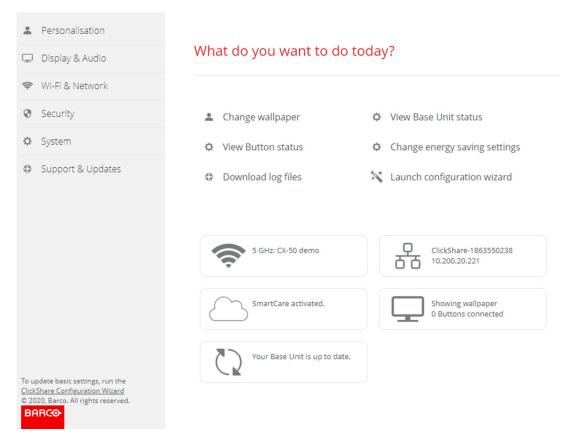


Image 6-6 Configuration Wizard start

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 is displayed. Also the Wi-Fi IP address and SSID are displayed.
 - Not checked: no LAN nor Wi-Fi information is displayed (default setup)

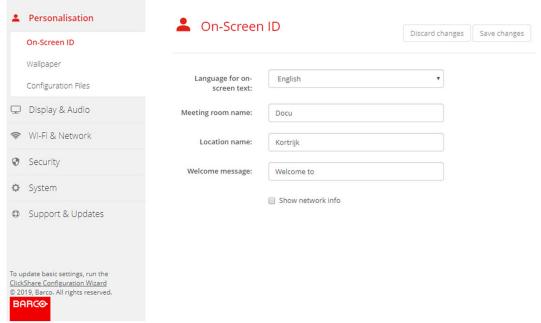


Image 6-7 On-Screen ID

On Screen language selection

- Log in to the Configurator.
- 2. Click Personalisation → On-screen ID.
- 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 → 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 C-10, C-5 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 → Wallpaper.

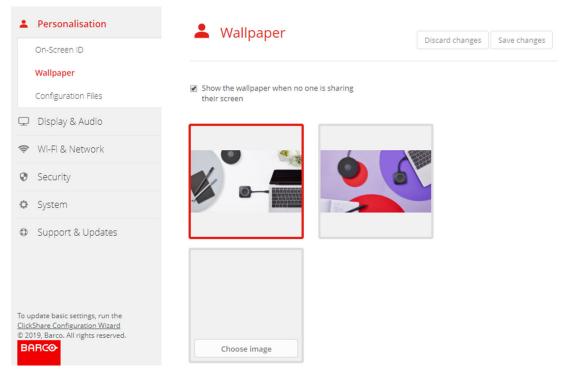
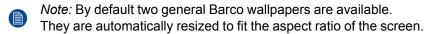


Image 6-8 Wallpaper selection

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

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



The selected wallpaper is indicated with a red border.

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



You can also add a personal wallpaper, e.g. your company logo. For more information on adding a new wallpaper to the list, see "Personalisation, Personalized wallpaper", page 72.

Download wallpaper

 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

 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 room system such as a Cisco video conferencing system, Microsoft Teams room system or a Zoom room 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**.

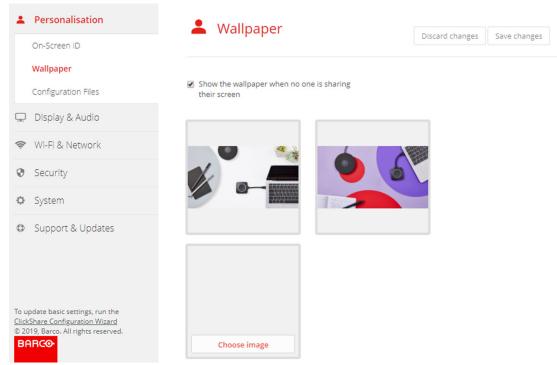


Image 6-10 Personalized wallpaper selection

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**.

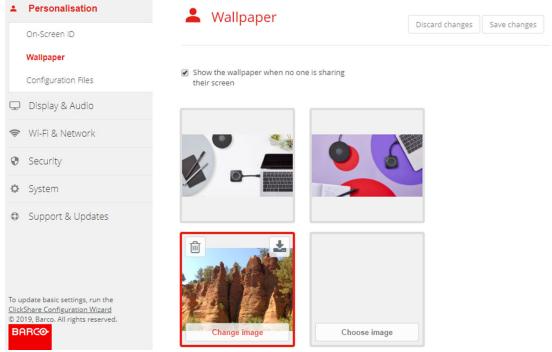


Image 6-11 Change image

- **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
- Wi-Fi channel
- Wi-Fi frequency

To manage the configuration files

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

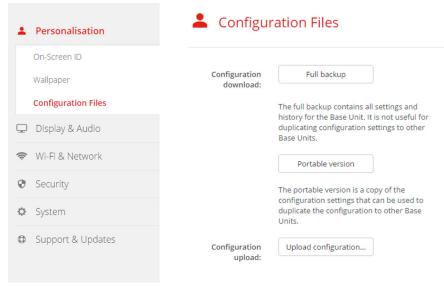


Image 6-13 Configuration files

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 & Audio setup

Resolution

The output resolution to the display is set on Auto. That means that the C-10, C-5 output resolution is automatically adapted to the resolution of the display. For HDMI displays, a hot plug detection is available.

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.

Audio

Enable or disable audio output.

Check the check box in front of Enable audio to enable audio output.

Screen saver setup

Log in to the Configurator.

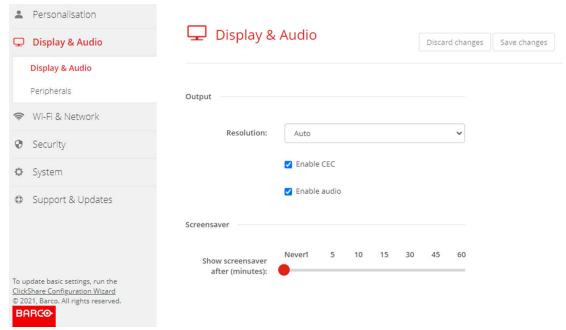


Image 6-14

- 2. Click Display & Audio → Display & Audio.
- 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.

Click Save changes.

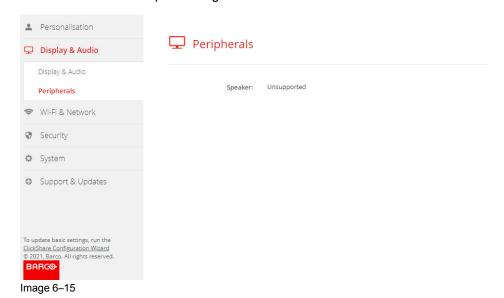
6.8 Peripherals

Overview

Information about the speaker is given in the Peripherals pane.

How to get

- 1. Log in to the Configurator.
- Click Display & Audio → Peripherals.
 Information about the speaker is given.



6.9 Wi-Fi settings



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

About

The operational mode of the Wi-Fi setting can be set in 3 different modes:

- · Access point
- · Wireless client
- Off

Change operational mode

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

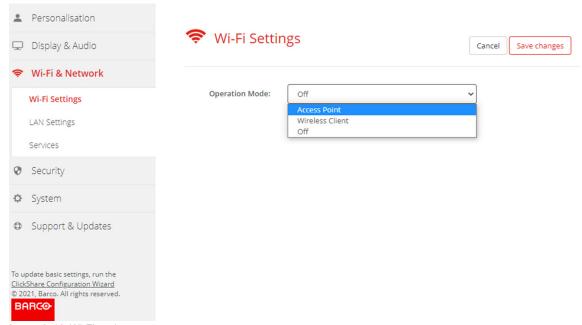


Image 6-16 Wi-Fi settings

- Select the operational mode by clicking on the drop down and selecting the desired option.The following options are possible.
 - · Access point
 - Wireless client
 - Off
- To change the Access Point settings, select Access Point.
 For more detailed information, see "Wi-Fi settings, Access Point settings", page 77
- To change the Wireless Client Settings, select Wireless Client.
 For more detailed information, see "Wi-Fi settings, Wireless Client", page 79.

6.10 Wi-Fi settings, Access Point settings

How to change

- Check the check box next to Enable.
 Checked: access point settings are enabled. All current settings can be changed.
 - Unchecked: access point settings are disabled.
- 2. If desired, enter a new Wi-Fi passphrase and confirm this Wi-Fi passphrase.

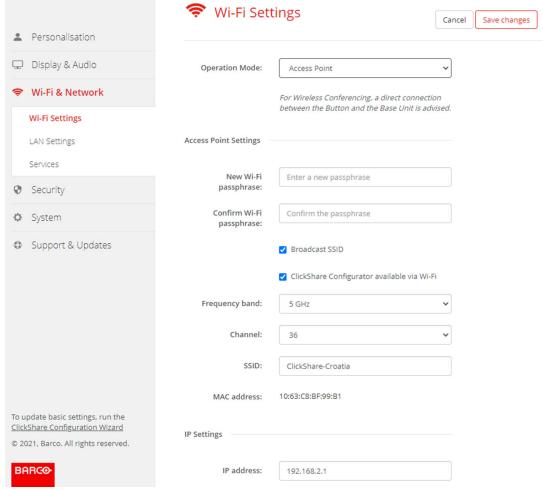
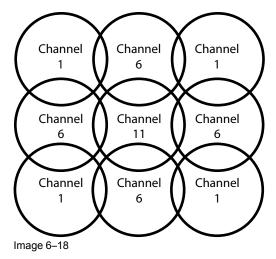


Image 6-17 Wi-Fi settings, access point settings

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

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.



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

 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.

ClickShare Configurator 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

 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.

Wireless Client Settings

For more info, see "Wi-Fi settings, Wireless Client", page 79.

6.11 Wi-Fi settings, Wireless Client

Introduction

Wireless Client mode allows to connect the Base Unit to a network over Wi-Fi instead of via the Ethernet interface. It brings identical functionality as a wired network connection; complete network integration, auto-update functionality and central management in XMS. It offers increased flexibility in the placement of the Base Unit as a network cable drop is no longer required on the installation location.

Note that when Wireless Client mode is enabled, the Base Unit Wi-Fi is occupied and can no longer be used for direct connections, either from the ClickShare Button, the ClickShare apps or from Airplay or Google Cast and Miracast. This means that these connections need to happen over the corporate network. As a consequence, when setting up Wireless Client mode, the Buttons are auto-configured to connect to the same network as the Base Unit. This setting however can be manually changed in the Buttons tab in the System menu.



For Wireless Conferencing, a direct connection between the Button and the Base Unit is advised.

How to activate Wireless Client

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

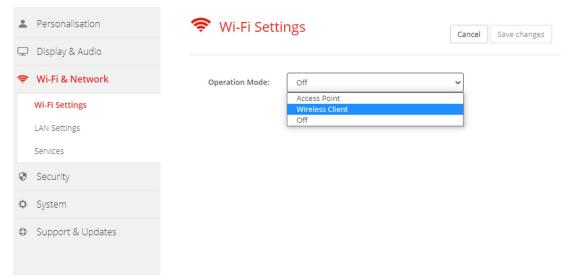


Image 6-19 Wi-Fi settings, Wireless Client

6.12 Wi-Fi settings, Wireless Client, EAP-TLS

About EAP-TLS

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

How to start up for EAP-TLS

1. Select EAP-TLS from the drop down list next to Authentication Mode.

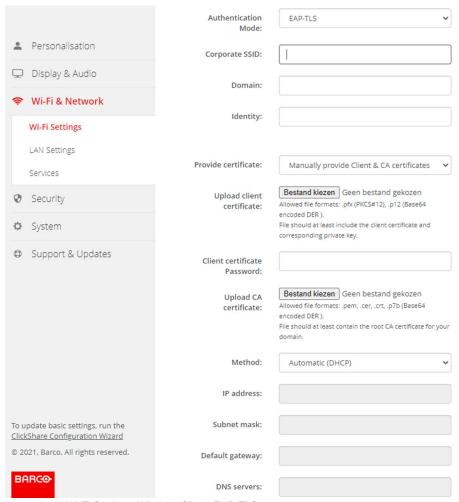


Image 6-20 Wi-Fi Settings, Wireless Client, EAP-TLS

2. Fill out a Corporate SSID.

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

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

Manually providing certificates

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

Allowed file formats:

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

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

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

The following formats are allowed:

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

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

4. Save Changes

Using SCEP

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



Image 6-21 Wi-Fi Settings, Wireless Client, EAP-TLS, SCEP

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

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

6.13 Wi-Fi settings, Wireless Client, EAP-TTLS

About EAP-TTLS

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

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

How to start up for EAP-TTLS

1. Select *EAP-TTLS* from the drop down list next to *Authentication Mode*.

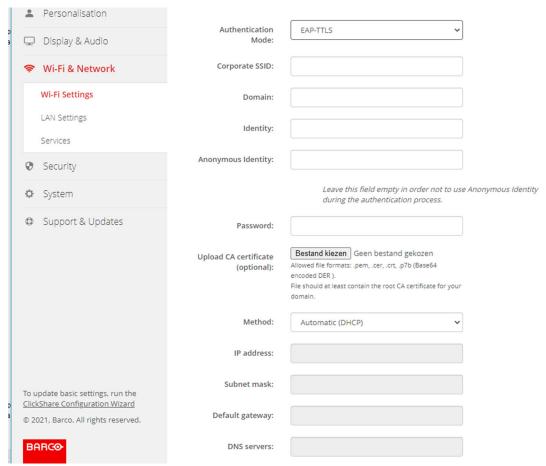


Image 6-22 Wi-Fi Settings, Wireless Client, EAP-TTLS

6.14 Wi-Fi settings, Wireless Client, PEAP

About PEAP

PEAP (Protected Extensible Authentication Protocol) is an EAP implementation co-developed by Cisco Systems, Microsoft and RSA Security. It sets up a secure TLS tunnel using the servers CA certificate after which actual user authentication takes place within the tunnel. This way of working enables it to use the security of TLS while authenticating the user but without the need for a PKI.

The standard does not mandate which method is to be used to authenticate within the tunnel. But in this application note, with regard to PEAP, we are referring to PEAPv0 with EAP-MSCHAPv2 as the inner authentication method. This is one of the two certified PEAP implementations in the WPA and WPA2 standards – and by far the most common and widespread implementation of PEAP.

How to start up for PEAP

1. Select *PEAP* from the drop down list next to *Authentication Mode*.

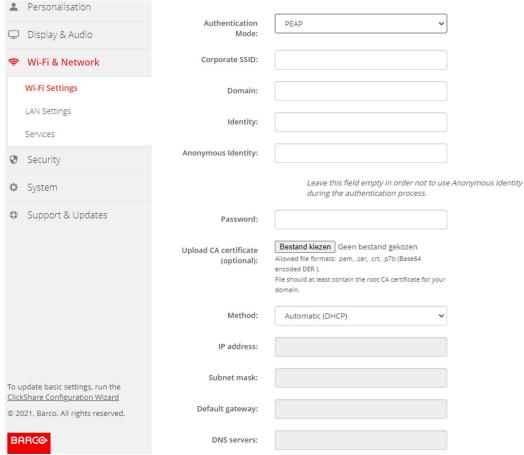


Image 6-23 Wi-Fi Settings, Wireless Client, PEAP

2. Fill out a Corporate SSID.

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

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

The following formats are allowed:

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

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

6. Click Save Changes to save the settings.

6.15 Wi-Fi settings, Wireless Client, WPA2-PSK

About WPA2-PSK

WPA2-PSK does not distinguish between individual users, there is 1 password (PSK – Pre-Shared Key) for all clients connecting to the wireless infrastructure. This makes setup very straightforward. Once connected, all data transmitted between client and AP (access point) is encrypted using a 256 bit key.

How to start up for WPA2-PSK

1. Select WPA2–PSK from the drop down list next to Authentication Mode.

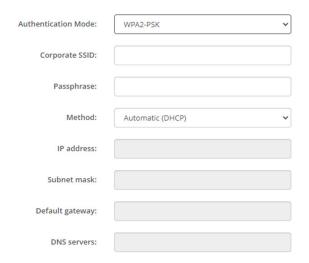


Image 6-24 Wi-Fi Settings, Wireless Client, WPA-PSK

2. Fill out a Corporate SSID.

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

3. Fill out Passphrase.

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

4. Click Save changes.

6.16 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 → LAN Settings.

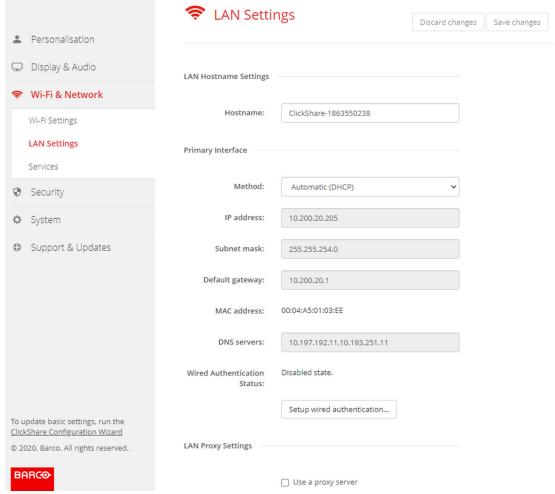


Image 6-25 LAN settings

3. Click in the input field next to *Hostname* and enter a host name for the Base Unit.

The default host name is ClickShare-<serial number Base Unit>.

4. 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.

Click Save changes to apply the settings.

Manual (fixed) IP address

- 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.

- Click in the DNS Servers input field and fill out the preferred DNS servers (maximum 5) in a comma separated list.
- 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.



Image 6-26 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.
- Click Save changes to apply the settings.

6.17 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.

About streaming information via AirPlay

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

The supported versions of AirPlay can be found on Barco's website, www.barco.com\clickshare. The support of non-released version of these protocols cannot be guaranteed by Barco.

About streaming via Google Cast

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

The supported versions of Google Cast can be found on Barco's website, <u>www.barco.com\clickshare</u>. The support of non-released version of these protocols cannot be guaranteed by Barco.

Google Cast does not support a passcode.



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

About streaming via Miracast™

Miracast™ enables seamless display of multimedia content between Miracast® devices. Miracast allows users to wirelessly share multimedia, including high-resolution pictures and high-definition (HD) video content between Wi-Fi devices, even if a Wi-Fi network is not available.

Miracast sets up its own network to stream information and display it via ClickShare so there is no need for a direct connection with the Base Unit. Miracast must be activated on your device. For more information about activating Miracast, consult the user guide of your device.

The supported versions of Miracast can be found on Barco's website, <u>www.barco.com\clickshare</u>. The support of non-released version of these protocols cannot be guaranteed by Barco.



To be able to use Miracast, you need to disable the access point and integrate the Buttons into the corporate network.

Passcode type selection

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

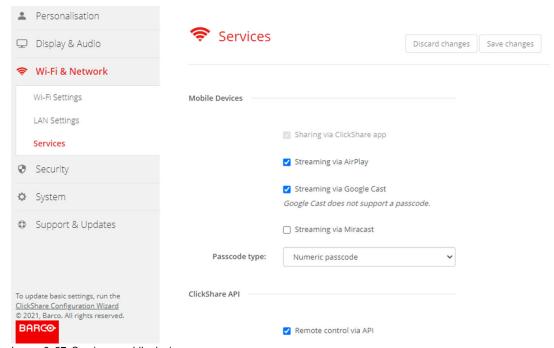


Image 6-27 Services, mobile devices

3. To allow sharing content via ClickShare app, Sharing via ClickShare app is activated by default and cannot be changed.

To allow streaming via AirPlay, check the check box in front of Streaming via AirPlay.

To allow streaming (mirroring) via Google Cast, check the check box in front of *Streaming via Google Cast*. Google cast does not support a passcode.

To allow streaming via Miracast, check the check box in front of Streaming via Miracast.

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

Passcode applies to all BYOD screen sharing except Google Cast.

6.18 Service, ClickShare API, remote control via API

About API settings

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

This functions in enabled by default.

API documentation

The API documentation is included in the Base Unit. Just click on *View API documentation* to access to the documentation. Enter your user name and password to access the stored documentation on the Base Unit.



The default user name and password are identical to those of the configurator (admin/admin). This can be changed in Security → Passwords.

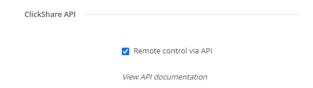


Image 6-28 ClickShare API & documentation

How to enable remote control via API

- 1. Log in to the Configurator.
- 2. Click Wi-Fi & Network → Services.
- 3. Check the check box in front of *Remote control via API* to enable this function.

This check box is normally checked by default.

Checked: remote control via API is allowed. A password can be used to protect the access.

Not checked: no remote control via API allowed.

About API documentation

The complete API documentation for integration by 3th parties is stored on the Base Unit and protected by user name and password.

How to display the API documentation

- Log in to the Configurator.
- 2. Click on View API documentation.
- Enter your user name and password and click OK.The documentation is displayed as a clickable HTML page.

6.19 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 Wi-Fi & Network → Services.
- 3. Scroll to SNMP.

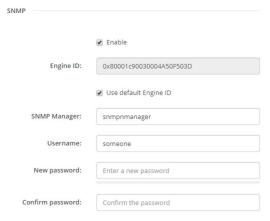


Image 6-29 Service, SNMP

Check the check box in front of Enable.

The configuration fields become available.

How to configure

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

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

- Alarm CPU temperature trap which indicates that CPU temperature exceeds the threshold.
- Alarm Case Fan Speed trap which indicates the case fan is spinning too slow.
- Alarm Process Not Running trap which indicates one of the monitored processes is not running.
- 3. Enter the *Username*.
- Enter a new password and confirm that password.

6.20 Security, security level

About security levels

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

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

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

The standard security options are:

PIN code activation for mobile apps and Buttons,

- ClickShare Configurator (WebUI) access via HTTPS with login management,
- no wireless ClickShare Configurator (WebUI) access,
- SSID of Wi-Fi network is hidden.

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

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

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

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

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

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



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



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

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

How to set the security level

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

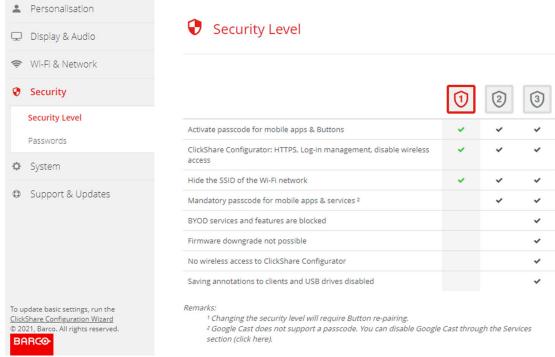


Image 6-30 Security levels

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

6.21 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.

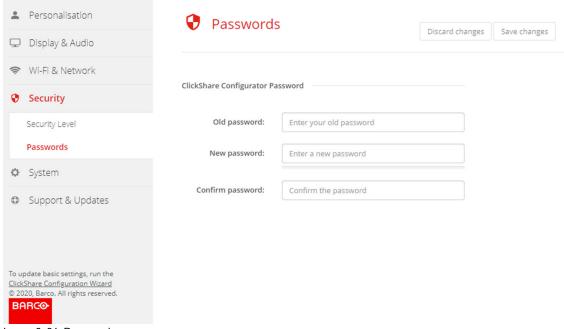


Image 6-31 Passwords

- 3. Click in the 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.

6.22 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 → Base Unit Status.

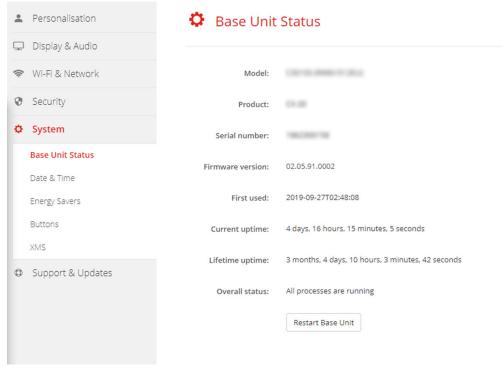


Image 6-32

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.

6.23 Date & Time setup, manually

About Date & Time setup

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

How to setup

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

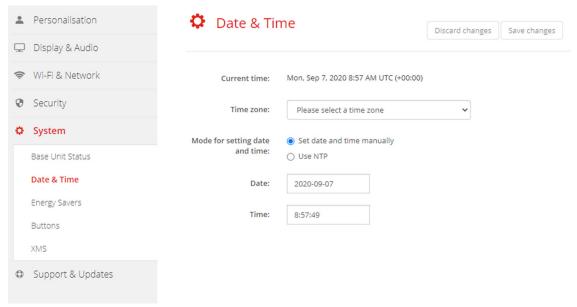


Image 6-33 Manual time & date update

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

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

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



Image 6-34 Date selection

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

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

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

A window with 3 scroll counters open.



Image 6-35 Time setup

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

6.24 Date & Time setup, time server

About using NTP server

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

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

How to setup

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

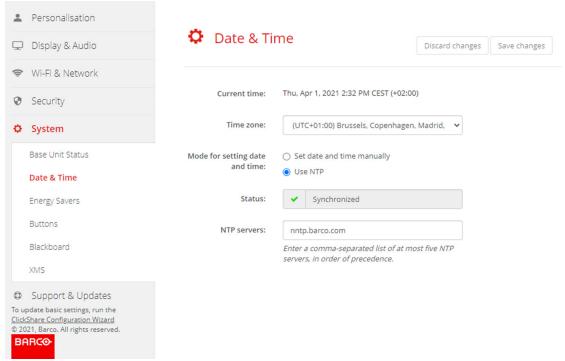


Image 6-36 Time server setup

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.
- Click Save changes to apply.

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

6.25 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. 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
- When a CEC event is received

Standby mode

When the Base Unit goes in Deep standby mode, it will shut down all processes, including the Wi-Fi access point and LAN connection. The Base Unit's LEDs will be dark to indicate this standby mode.

The Base Unit will wake up only when the standby button on the Base Unit is pressed.

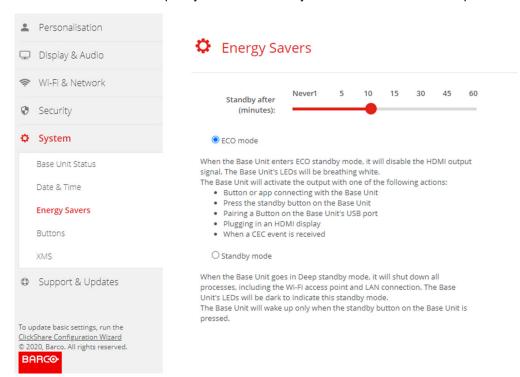


Image 6–37 Energy savers

How to change the display timeout

- 1. Log in to the Configurator.
- 2. Click System → Energy Savers.
- To set a display time out, move the slider to the left or to the right until the desired standby timeout is reached.

6.26 Buttons

About Buttons

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

When connected to a network, it indicates the domain, the identity and provided certificate.

All Buttons used with the Base Unit are indicated in the Buttons List. The list contains the serial number, MAC address, article code and the firmware version, the number of connections and last connection date and time.

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

The Buttons can be connected to Base Unit or to an external access point.

To edit the settings

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

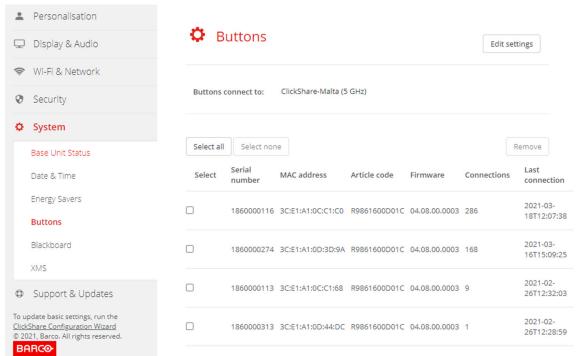


Image 6-38 Buttons overview

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, your ClickShare device or external access point, settings should be filed out. For your ClickShare device, no settings are needed.

6.27 Buttons, External access point, mode EAP-TLS

How to fill out

1. Fill out a Corporate SSID.

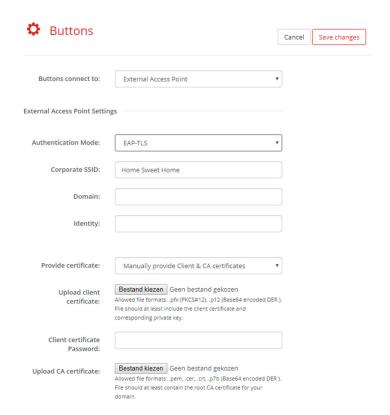


Image 6-39 Buttons, External access point, mode EAP-TLS

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

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

Manually providing certificates

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

Allowed file formats:

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

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

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

The following formats are allowed:

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

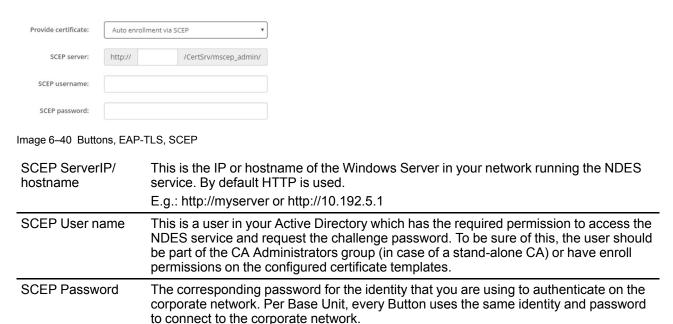
File should at least contain the root CA certificate for your domain.

Save Changes

Using SCEP

The Simple Certificate Enrolment Protocol (SCEP) is a protocol which enables issuing and revoking of certificates in a scalable way. SCEP support is included to allow a quicker and smoother integration of the

ClickShare Base Unit and Buttons into the corporate network. Since most companies are using Microsoft Windows Server and its active directory (AD) to manage users and devices our SCEP implementation is specifically targeted at the Network Device Enrolment Service (NDES) which is part of Windows Server 2008 R2 and Windows Server 2012. Initial support for other generic servers is available by extending the possible parameters to use for NDES/SCEP enrolment.



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

6.28 Buttons, External access point, mode EAP-TTLS

How to fill out the settings

Fill out a Corporate SSID.

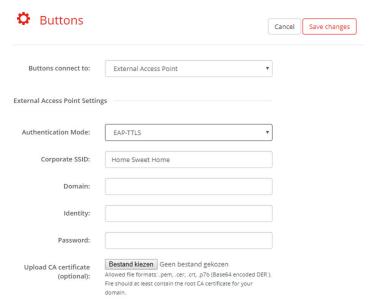


Image 6-41 Buttons, External access point, mode EAP-TTLS

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

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

The following formats are allowed:

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

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

Click Save Changes to save the settings.

6.29 Buttons, External access point, mode PEAP

How to fill out the settings

1. Fill out a Corporate SSID.

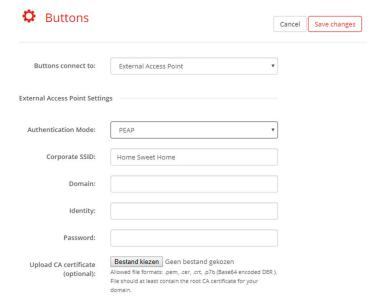


Image 6-42 Buttons, External access point, mode PEAP

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

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

The following formats are allowed:

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

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

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

6.30 Buttons, External access point, mode WPA2-PSK

How to fill out the settings

1. Fill out a Corporate SSID.

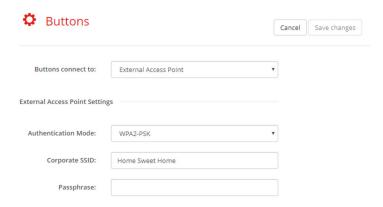


Image 6-43 Buttons, External access point, mode WPA2-PSK

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

2. Fill out Passphrase.

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

Click Save changes to save the settings.

6.31 Blackboard



Only available on C-10.

About Blackboard

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

How to change the blackboard setting

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

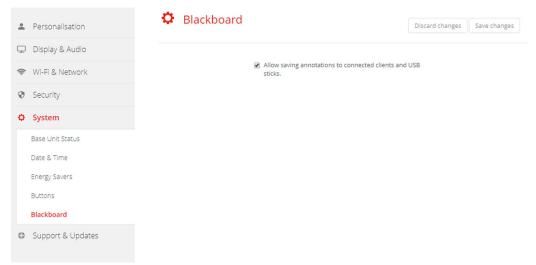


Image 6-44 Save annotations

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

Checked: annotations on the blackboard can be saved.

Unchecked: no annotations on the blackboard can be saved.

6.32 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.

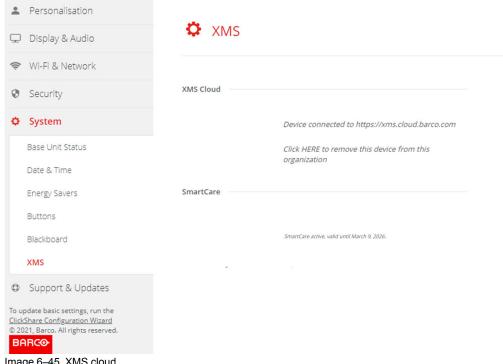


Image 6-45 XMS cloud

What can be done?

Check your network settings or register your device to XMS Cloud.
 Follow procedure as described in "Registration to XMS Cloud", page 46.

SmartCare

The SmartCare package is included in the purchase of each ClickShare unit.

For those rare occasions when you encounter issues with our ClickShare units., we have launched SmartCare, a service package that provides your company with budget predictability, swift hardware replacement and expert support from both Barco and our partners for up to 5 years.

When SmartCare is activated, in the SmartCare pane the message SmartCare active, valid until... is displayed.

When not yet activated, you have 6 months after the first setup to activate SmartCare and enjoy 5 years of hardware coverage.

When the activation period is expired, the warranty end date will be displayed.

6.33 Firmware Update

About Firmware update

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

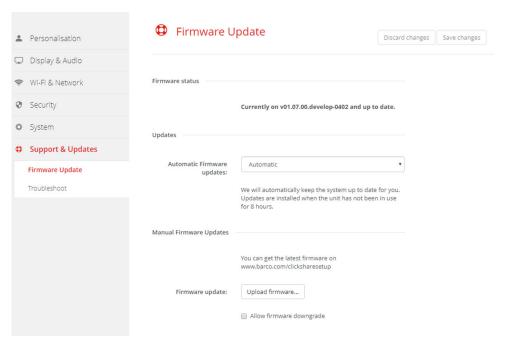


Image 6-46 Firmware update

About automatic firmware updates

There are 3 ways to configure automatic updates:

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

Manual firmware update

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

A browser window opens.

- 5. Browse to the file with the new firmware and click **Open** to start the upload.
 - Note: This should be an .enc file. You might have to unzip the file downloaded from Barco's website.
 - *Note:* Updating the software to the Base Unit takes several minutes. Progress can be followed on the meeting room display.

The Base Unit software is updated.



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

Firmware update without using the Configurator

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

- When your device is connected to a network and managed via the XMS (Cloud) management platform, the
 firmware can be upgrade via this Management solution. For more information on upgrading firmware in this
 way, consult Barco's web pages on XMS (
 https://www.barco.com/en/page/xms-cloud-management-platform).
- Download the firmware on a USB stick and plug in this USB in your device. For more information, see "Updating the C-10, C-5 firmware", page 110

6.34 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

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

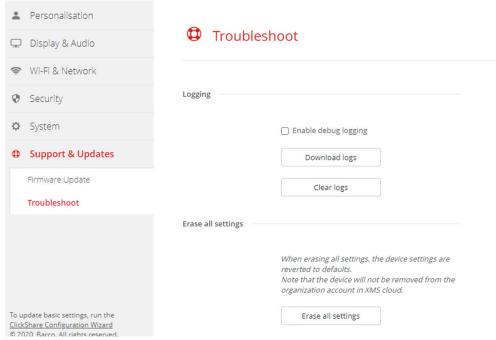


Image 6-47 Troubleshoot, logging

- 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.

6.35 Troubleshooting, Erase all settings

About erasing all settings

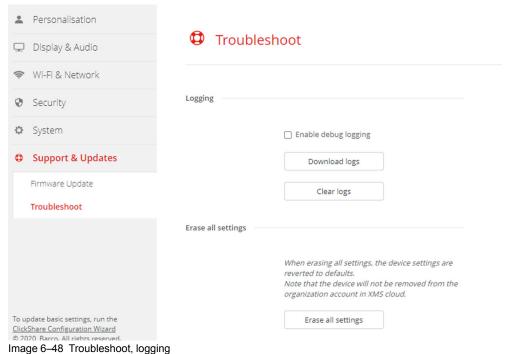
When erasing all settings, the device settings are reverted to defaults. There is no need to go through the onboarding procedure.



The device will not be removed from the organization account in XMS cloud.

How to erase

- 1. Log in to the Configurator.
- 2. Click Support & Updates → Troubleshoot.
- **3.** To erase all settings and revert to default, click **Erase all settings**.



mage o 40 mousiconoot, logging

6.36 Reset to factory defaults

About the reset

When applying a reset to factory defaults, the device settings are reverted to the factory defaults. Additionally, the Base Unit will be removed from the organization account in XMS cloud and the first time setup procedure will be initiated, as if the device came out of the box.



The unit needs to be connected to the internet to complete the first time setup.

How to reset

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

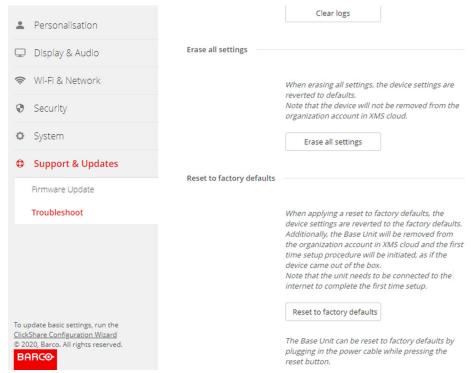


Image 6-49 Factory reset

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.

Firmware updates

7

7.1 Updating the C-10, C-5 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 103.
- · by copying the software on a USB stick

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

- 1. Download the latest version of the firmware from Barco's website, www.barco.com/clickshare. Click on Support and select the update firmware button of your device type.
- 2. Unzip the zip file.
- 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.
- When the on-screen message indicates that the process is finished, remove the USB stick.The Base Unit reboots.

Troubleshooting

8

8.1 Troubleshooting list

Problem solving

Problem	Cause	Solution		
Quality of the image on the meeting room display is not satisfactory	The quality or length of the cable between the Base Unit and the display or the connection between these two.	Replace the cable.Use another cable.		
	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	 Put the Base Unit closer to the meeting room table. Change the orientation of the antennas at the back of the Base Unit. Remove or limit as much as possible all obstructions between the Buttons and the Base Unit. 		
Web interface is not accessible	Browser	Use another browser (version).Check the browser settings.		
	No connection	 There are three methods to access the web interface. Refer to the corresponding chapter of the documentation. Check the proxy settings 		
Users do not get a ClickShare drive when inserting the Button in their laptop.	 No automatic refresh of drives Windows tries to assign the ClickShare drive to an already reserved drive letter 	 Refresh your view on the laptop. Use Microsoft Windows Disk Management to assign it to a free drive letter. 		
	Bad connection at USB port on the laptop	Reconnect to the USB port.Try another USB port.Reboot the laptop.		
	 Some types of USB devices might be blocked as a company policy. USB port settings on the laptop might limit the usage of high power USB devices when on battery power. 	If possible, change the USB port policy on the laptop.		

Problem Low video performance	Cause Laptop performance	 Solution Lower the screen resolution of the laptop. Disable the hardware acceleration for video. Use only a part of the display to show the video. Right click ClickShare icon in system tray and click on Capture mode to toggle the current setting 	
	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. video is protected by HDCP and cannot be captured by ClickShare. 	
Some programs of Windows are not shown on the display	Use of overlays, 3D or hardware acceleration in the GPU	 Disable overlays or hardware acceleration in the GPU. Disable AeroGlass in Windows 7 Upgrade the Base Unit to the latest software version. 	
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	The displays are switched off.	Switch on the displays.	
all.	The display cable is not correctly connected The display does not recognize or is not able to display the Base Unit	Insert the display cable to the display and the Base Unit. Change the corresponding setting via the web interface.	
	is not able to display the Base Unit output resolution.	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 the Base Unit antennas	
		Check out the ClickShare White paper on WiFi See www.barco.com/clickshare .	
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 https://www.youtube.com/user/barcoTV and select ClickShare.

Index

A	ClickShare API 89 Password 92
API documentation 89 API password 92 API settings 89	Configuration Wizard 66 Configuration files 74
Audio setup 75	Configurator 62 Access 63
В	Configurator password 92 Connecting
Base Unit About 32	Base Unit Display 42
Display	Ethernet 43
Connection 42	LAN 43 Power 44
Ethernet Connection 43	Touch screen 43
First setup 45	
Installation	D
Methods 38 LAN	Date - time
Connection 43	Manually 93
Power Connection 44	Date - Time
Restart 92	NTP server 95 Time server 95
Table mounting 38	Desktop app 58
Touch screen Connection 43	Display setup 75
Basic workflow 36	Documentation 26
Blackboard 101	_
Button Pairing 56	E
Prepare 55	Energy savers 95
Buttons 96	Environment condition check 36 Extension pack 57
External access point EAP-TLS 97	Extension Pack
EAP-TTLS 99	Installer 57
PEAP 100 WPA2-PSK 101	
WI AZ-I OK TOT	F
C	Factory defaults 106
	Firmware Update 109–110
C-10, C-5 About 28	Base Unit 103
, 10001 20	

Button 103 First setup Base Unit 45 Full backup 74	Personalized wallpaper 72 Wallpaper Personalized 72 Personalisation Wallpaper 71 Portable version 74 Prepare Button 55
Getting started 35	24
I	R
Installation 37 Base Unit Methods 38	Registration XMS Cloud 46
Ceiling mounting Base Unit 38	S
Network connected setup 41 Dedicated 41 Out-of-the-box 40 Table mounting	Safety Environment condition check 36 Security level 90 Services
Base Unit 38 Wall mounting	Mobile devices 87 SNMP 89
Base Unit 38 Introduction 25	Specifications 27 C-10, C-5 29
Fonts 26 symbols 26	Start up First time 44 Status information 92 Symbols 26
L	System
LAN settings 85 Language 69 Location name 69	XMS 102
Log settings 104	Table mounting Base Unit 38
M	Troubleshoot Log settings 104
Meeting room name 69 Mobile Device Support 33 Mobile devices 87	Troubleshooting 111 Logging 105 Troubleshooting list 112
Weblie devices of	
N	U
No registration 48	Update Firmware Base Unit 103 Button 103
0	Upload configuration 74
Onboarding Basic configuration 51 Network settings	W
Setup 51 Out-of-the-box 40	Wallpaper 71 Personalized 72 WebUI password 92
P	Welcome text 69 Wi-Fi settings 76–77
Pairing Button 56 Passwords 92	Wireless client 79 EAP-TLS 80 EAP-TTLS 82
Peripherals 76 Persnalisation	PEAP 83 WPA-PSK 84

Windows Certified driver 58



XMS Cloud 102

