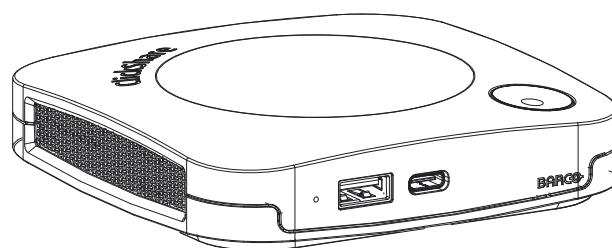


CX-20

Model: C 3010S, R9861600D01C



User Guide

Barco NV

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

Package	Version	Source_STE
alsa-lib	1.1.5	ftp://ftp.alsa-project.org/pub/lib
alsa-utils	1.1.5	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	http://ftpmirror.gnu.org/ncurses
avahi	0,7	https://github.com/lathiat/avahi/releases/download/v0.7
dbus	1.12.2	https://dbus.freedesktop.org/releases/dbus
expat	2.2.5	http://downloads.sourceforge.net/project/expat/expat/2.2.5
libselenium	2,7	https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/releases/20170804
libsepol	2,7	https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/releases/20170804
pcre	8,41	https://ftp.pcre.org/pub/pcre
python3	3.6.3	https://python.org/ftp/python/3.6.3

Package	Version	Source_STE
libffi	3.2.1	ftp://sourceware.org/pub/libffi
libzlib	1.2.11	http://www.zlib.net
libdaemon	0,14	http://0pointer.de/lennart/projects/libdaemon
libglib2	2.54.2	http://ftp.gnome.org/pub/gnome/sources/glib/2.54
elfutils(tool)	0,169	https://sourceware.org/elfutils/ftp/0.169
elfutils(library)	0,169	https://sourceware.org/elfutils/ftp/0.169
bzip2	1.0.6	http://www.bzip.org/1.0.6
util-linux	2.31.1	https://cdn.kernel.org/pub/linux/utils/util-linux/v2.31
busybox	1.27.2	http://www.busybox.net/downloads
linux-pam	1.3.0	http://linux-pam.org/library
flex	2.6.4	https://github.com/westes/flex/files/981163
readline	7	http://ftpmirror.gnu.org/readline
bellagio	0.9.3	http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3
bitstream	1,2	https://get.videolan.org/bitstream/1.2
bluez5_utils	5,5	https://cdn.kernel.org/pub/linux/bluetooth
libical	1.0.1	https://github.com/libical/libical/releases/download/v1.0.1
eudev	3.2.5	http://dev.gentoo.org/~blueness/eudev
kmod	24	https://cdn.kernel.org/pub/linux/utils/kernel/kmod
bridge-utils	1,6	https://cdn.kernel.org/pub/linux/utils/net/bridge-utils
c-ares	1.13.0	http://c-ares.haxx.se/download
ca-certificates	201707-17	http://snapshot.debian.org/archive/debian/20170814T210836Z/pool/main/c/ca-certificates
collectd	5.7.1	http://collectd.org/files
libgcrypt	1.8.2	https://gnupg.org/ftp/gcrypt/libgcrypt
libgpg-error	1,27	ftp://ftp.gnupg.org/gcrypt/libgpg-error
lm-sensors (libsensors)	3.4.0	http://snapshot.debian.org/archive/debian/20170208T211941Z/pool/main/l/lm-sensors
lm-sensors (programs)	3.4.0	http://snapshot.debian.org/archive/debian/20170208T211941Z/pool/main/l/lm-sensors
crda	3,18	https://cdn.kernel.org/pub/software/network/crda
libnl	3.4.0	https://github.com/thom311/libnl/releases/download/libnl3_4_0
cryptsetup	2.0.0	https://cdn.kernel.org/pub/linux/utils/cryptsetup/v2.0
json-c	0,13	https://s3.amazonaws.com/json-c_releases/releases
lvm2	2.02.173	ftp://sources.redhat.com/pub/lvm2/releases
popt	1,16	http://rpm5.org/files/popt

Package	Version	Source_STE
dhcp	4.3.6	http://ftp.isc.org/isc/dhcp/4.3.6
dnsmasq	2,78	http://thekelleys.org.uk/dnsmasq
dosfstools	4,1	https://github.com/dosfstools/dosfstools/releases/download/v4.1
dropbear	2017,75	https://matt.ucc.asn.au/dropbear/releases
dvblast	3,1	https://get.videolan.org/dvblast/3.1
libev	4,24	http://dist.schmorp.de/libev/Attic
e2fsprogs	1.43.9	https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.43.9
e2fsprogs (libss and libet)	1.43.9	https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.43.9
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
jpeg-turbo	1.5.2	https://downloads.sourceforge.net/project/libjpeg-turbo/1.5.2
libpng	1.6.34	http://downloads.sourceforge.net/project/libpng/libpng16/1.6.34
ffmpeg	3.4.2	http://ffmpeg.org/releases
fontconfig	2.12.4	http://fontconfig.org/release
freetype	2.8.1	http://download.savannah.gnu.org/releases/freetype
libopenssl	1.0.2n	http://www.openssl.org/source
libva	2.0.0	https://github.com/01org/libva/releases/download/2.0.0
libdrm	2.4.89	https://dri.freedesktop.org/libdrm
libpthread- stubs	0,4	http://xcb.freedesktop.org/dist
libvorbis	1.3.5	http://downloads.xiph.org/releases/vorbis
libogg	1.3.3	http://downloads.xiph.org/releases/ogg
libvpx	1.6.1	http://storage.googleapis.com/downloads.webmproject.org/releases/webm
opus	1.2.1	https://downloads.xiph.org/releases/opus
speex	1.2rc1	http://downloads.us.xiph.org/releases/speex
file	5,32	ftp://ftp.astron.com/pub/file
gdb	7.11.1	http://ftpmirror.gnu.org/gdb
gnupg2	2.2.4	https://gnupg.org/ftp/gcrypt/gnupg
libassuan	2.5.1	ftp://ftp.gnupg.org/gcrypt/libassuan
libksba	1.3.5	ftp://ftp.gnupg.org/gcrypt/libksba
libnpth	1,5	https://www.gnupg.org/ftp/gcrypt/npth
libusb	1.0.21	https://github.com/libusb/libusb/releases/download/v1.0.21

Package	Version	Source_STE
sqlite	3210000	http://www.sqlite.org/2017
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
gst1-plugins-good	1.14.4	https://gstreamer.freedesktop.org/src/gst-plugins-good
libv4l	1.14.1	https://linuxtv.org/downloads/v4l-utils
gst1-vaapi	1.14.4	https://gstreamer.freedesktop.org/src/gstreamer-vaapi
htop	2.0.2	http://hisham.hm/htop/releases/2.0.2
icu	60.1	http://download.icu-project.org/files/icu4c/60.1
iperf3	3.1.7	http://downloads.es.net/pub/iperf/iperf-3.1.7.tar.gz
iproute2	4.14.1	https://cdn.kernel.org/pub/linux/utils/net/iproute2
iptables	1.6.1	http://ftp.netfilter.org/pub/iptables
iw	4.9	https://cdn.kernel.org/pub/software/network/iw
jansson	2.1	http://www.digip.org/jansson/releases
jose	10	https://github.com/latchset/jose/releases/download/v10
jsoncpp	1.8.3	https://github.com/open-source-parsers/jsoncpp/archive/1.8.3
libarchive	3.3.2	http://www.libarchive.org/downloads
libxml2	2.9.7	ftp://xmlsoft.org/libxml2
libbsd	0.8.7	https://archive.hadrons.org/software/libbsd
libconfig	1.5	http://www.hyperrealm.com/libconfig
libcurl	7.58.0	https://curl.haxx.se/download
libedit	201503-25-3.1	http://www.thrysoee.dk/editline
libestr	0.1.10	http://libestr.adiscon.com/files/download
libevent	2.1.8-stable	https://github.com/libevent/libevent/releases/download/release-2.1.8-stable
libfastjson	v0.99.4	https://github.com/rsyslog/libfastjson/archive/v0.99.4
libhttpparser	v2.7.1	https://github.com/nodejs/http-parser/archive/v2.7.1
liblogging	1.0.5	http://download.rsyslog.com/liblogging
libpcap	1.8.1	http://www.tcpdump.org/release
libqrencode	3.4.2	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

Package	Version	Source_STE
libusb-compat	0.1.5	http://downloads.sourceforge.net/project/libusb/libusb-compat-0.1/libusb-compat-0.1.5
libuv	v1.19.1	https://github.com/libuv/libuv/archive/v1.19.1
libyaml	0.1.7	http://pyyaml.org/download/libyaml
lighttpd	1.4.48	http://download.lighttpd.net/lighttpd/releases-1.4.x
linux-firmware	65b1-c68c63-f974-d72610-db38dfa-e49861-117cae2	http://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git
logrotate	3.13.0	https://github.com/logrotate/logrotate/archive/3.13.0
memtester	4.3.0	http://pyropus.ca/software/memtester/old-versions
mesa3d	17.3.6	https://mesa.freedesktop.org/archive
monit	5.24.0	http://mmonit.com/monit/dist
netcat	0.7.1	http://downloads.sourceforge.net/project/netcat/netcat/0.7.1
netsnmp	5.7.3	http://downloads.sourceforge.net/project/net-snmp/net-snmp/5.7.3
pciutils	3.5.5	https://cdn.kernel.org/pub/software/utils/pciutils
nodejs	8.9.4	http://nodejs.org/dist/v8.9.4
ntp	4.2.8p10	https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2
opkg	v0.3.1	http://git.yoctoproject.org/git/opkg
opus-tools	0.1.10	https://downloads.xiph.org/releases/opus
php	7.2.2	https://ftp.pcre.org/pub/pcre
portaudio	v19060-0_201610-30	http://www.portaudio.com/archives
powertop	2,9	https://01.org/sites/default/files/downloads/powertop
protobuf	3.4.1	https://github.com/google/protobuf/releases/download/v3.4.1
python-pyyaml	3,12	https://pypi.python.org/packages/4a/85/db5a2df477072b2902b0eb892feb37d88ac635d36245a72a6a69b23b383a
python-serial	3,1	https://pypi.python.org/packages/ce/9c/694ce79a9d4a164e109aeba1a40fba23336f3b7554978553e22a5d41d54d
qt5base	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5declarative	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5xmlpatterns	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5imageformats	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5multimedia	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules

Package	Version	Source_STE
qt5quickcon- trols	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5quickcon- trols2	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5serialport	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5svg	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5webchan- nel	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5websock- ets	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
qt5webengine	5.11.3	https://download.qt.io/official_releases/qt/5.11/5.11.3/submodules
webp	0.6.1	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
strace	4.2	http://downloads.sourceforge.net/project/strace/strace/4.20
tcpdump	4.9.2	http://www.tcpdump.org/release
trousers	0.3.13	http://downloads.sourceforge.net/project/trousers/trousers/0.3.13
tzdata	2018c	http://www.iana.org/time-zones/repository/releases
unzip	60	ftp://ftp.info-zip.org/pub/infozip/src
usbutils	9	https://cdn.kernel.org/pub/linux/utils/usb/usbutils
wireless-regdb	2017.03- .07	http://kernel.org/pub/software/network/wireless-regdb
wireless_tools	30.pre9	https://hewlettpackard.github.io/wireless-tools
zip	30	ftp://ftp.info-zip.org/pub/infozip/src
barco- splashscreen	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/splashscreen
splashutils	1.5.4.4	http://dev.gentoo.org/~spock/projects/gensplash/archive
baseunit- buttoncontrol- ler	1.12.5	http://git:gitgit@titanium.barco.com/csne/baseunit-buttoncontroller.git
buttongen4- stack	1.7.7	http://git:gitgit@titanium.barco.com/csne/buttongen4-stack.git
buttongen4- control- protocol	5.5.3	http://git:gitgit@titanium.barco.com/csne/buttongen4-control-protocol-lib.git
buttongen4- osabstraction	3.0.4	http://git:gitgit@titanium.barco.com/csne/buttongen4-osabstraction.git
buttongen4- tls-connection	1.0.7	http://git:gitgit@titanium.barco.com/csne/buttongen4-tls-connection.git
raw-hid	2.2.3	http://git:gitgit@titanium.barco.com/csne/raw-hid.git

Package	Version	Source_STE
simpleusbprotocol	2.0.9	http://git:gitgit@titanium.barco.com/csne/simpleusbprotocol.git
dbusinterfaces	1.2.1	http://git:gitgit@titanium.barco.com/clsh/dbus_interfaces.git
libunified-logger	v2.1	http://git:gitgit@titanium.barco.com/clsh/unified-logger.git
libbacktrace	v1.6.2	http://git:gitgit@titanium.barco.com/clsh/backtrace.git
baseunitapp	1.6.4	http://git:gitgit@titanium.barco.com/csne/baseunitapp.git
libbunita	1.0.10	http://git:gitgit@titanium.barco.com/csne/bunita.git
libaudiotoolbox	release_sdk_1.0.8	http://git:gitgit@titanium.barco.com/bat/audiotoolbox.git
libraryconfig-wave3	1.4.19	http://git:gitgit@titanium.barco.com/csne/baseunitapp.git
libchannelcontrol	v0.2.0	http://git:gitgit@titanium.barco.com/csne/channelcontrol.git
libclickshare-tools	HEAD	https://ntcsvn011.barco.com/repos/application/branches/SQUAD/SQ-NEXTEXP-W924/shared/libraries/clickshare-tools
libclickshare-module	v1.0.0	http://git:gitgit@titanium.barco.com/csne/clicksharemodule.git
libunifiedprotocol	1.0.3	http://git:gitgit@titanium.barco.com/csne/unifiedprotocol.git
json	1.8.4-cs2	http://json.org/
libcryptopp	v1.0.0	http://git:gitgit@titanium.barco.com/cstp/cryptopp.git
libdatapump-network	1.2.1	http://git:gitgit@titanium.barco.com/csne/datapumpnetwork.git
libresample	0.1.3	ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample
libunifiedprotocoldataplane	1.0.0	http://git:gitgit@titanium.barco.com/csne/unifiedprotocol-dataplane.git
libunifiedprotocolhelpers	1.1.0	http://git:gitgit@titanium.barco.com/csne/unifiedprotocolhelpers.git
libEDSComm	v1.0.0	http://git:gitgit@titanium.barco.com/csne/EDSComm.git
libICLogger	1.0.0	http://git:gitgit@titanium.barco.com/csne/ICLogger.git
libcryptutils	1.0.3	http://git:gitgit@titanium.barco.com/clsh/cryptutils.git
resolutiondaemon	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/resolution-daemon/resolutiondaemon
streammuxer	v0.1.0	http://git:gitgit@titanium.barco.com/csne/streammuxer.git
commandline	1.0.2	http://git:gitgit@titanium.barco.com/csne/commandline.git
rd-camera	0.14.13	http://git:gitgit@titanium.barco.com/csne/rd-camera.git
rdperftool	2.2.9	http://git:gitgit@titanium.barco.com/csne/rdperftool.git
alsa-plugins	1.1.1	ftp://ftp.alsa-project.org/pub/plugins

Package	Version	Source_STE
alsa-state	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/alsa-state
arphic-uming-fonts	200802-16	http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming
centralbroker	0.4.0	http://git:gitgit@titanium.barco.com/csne/centralbroker.git
centralstore	2.6.2	http://git:gitgit@titanium.barco.com/csne/centralstore.git
clickshare-translations	HEAD	https://ntcsvn011.barco.com/repos/application/branches/SQUAD/SQ-NEXTEXP-W924/shared/resources/translations
libcertificate-helper	1.0.0	http://git:gitgit@titanium.barco.com/csne/certificate-helper.git
libcs802dot1x	2.1.0	http://git:gitgit@titanium.barco.com/clsh/cs-802dot1x.git
centralstorecli	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/centralstore-cli
certification-scripts-phoenix	d7fc-a692e-c6c97-d5-d1810-b171f-e172b7-d7fef2a3	http://git:gitgit@titanium.barco.com/clsh/certification-scripts-phoenix.git
clickshareCA-Certificates	HEAD	https://ntcsvn011.barco.com/repos/application/branches/SQUAD/SQ-NEXTEXP-W924/shared/resources
clicksharebuttonfirmware-gen4	02.03.0-0. master-0361	https://G_SVN_HUDSON:KM4c11kz@bin.barco.com/artifactory/clickshare-local/button-gen4-evt/master/02.03.00.master-0361
clickshare-clientisogen4	00.00.0-0. master-0248	https://G_SVN_HUDSON:KM4c11kz@bin.barco.com/artifactory/clickshare-local/clickshare-app/master/00.00.00.master-0248
dbus-bridge	v1.1.0	http://git:gitgit@titanium.barco.com/clsh/dbus-bridge.git
dejavu-fonts	2,34	http://downloads.sourceforge.net/project/dejavu/dejavu/2.34
displaytest	1.0.0	http://git:gitgit@titanium.barco.com/csne/displaytest.git
dongle-crypt	1.0.0	http://git:gitgit@titanium.barco.com/csne/dongle-crypt.git
dongle-ecc	1.0.0	http://git:gitgit@titanium.barco.com/csne/dongle-ecc.git
eula	HEAD	https://ntcsvn011.barco.com/repos/application/branches/SQUAD/SQ-NEXTEXP-W924/shared/resources
firmwareupdate-daemon	2.0.1	http://git:gitgit@titanium.barco.com/csne/firmwareupdatedaemon.git
flexnet	1.0.5	https://www.flexerasoftware.com/monetize/products/flexnet-licensing.html
frameless-browser	2.0.0	http://git:gitgit@titanium.barco.com/utis/frameless_qt_browser.git
ledcontrol	1.1.1	http://git:gitgit@titanium.barco.com/csne/ledcontrol.git
liblicenseclient	1.0.5	http://git:gitgit@titanium.barco.com/isnw/licenseclient-lite.git

Package	Version	Source_STE
libunified-logger-qt	44a5bb- acee46- e17eea- b5c09- d24960- 99934c- aa410	http://git:gitgit@titanium.barco.com/clsh/unified-logger-qt.git
license-manager	0.5.0	http://git:gitgit@titanium.barco.com/csne/license-manager.git
networkmanager	1.1.7	http://git:gitgit@titanium.barco.com/csne/networkmanager.git
peacebox-gw	5df196d- edf4- d3- e90310- 6836c8- 571b- c992- a002e12	http://git:gitgit@titanium.barco.com/silad/peacebox-gw.git
production	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/production
restapi	v1.12.13	http://git:gitgit@titanium.barco.com/clsh/restapi.git
restapi2	fff1bfa2- b7714c- de2f2b- d359f9- f041104- a8866f1	http://git:gitgit@titanium.barco.com/clsh/restapi.git
rootrunner	1.1.2	http://git:gitgit@titanium.barco.com/csne/rootrunner.git
sazanami-fonts	200406- 29	http://sourceforge.jp/projects/efont/downloads/10087
snmpdcsub-agent	1.0.0	http://git:gitgit@titanium.barco.com/csne/snmpd-cs-subagent.git
sscep	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/sscep
standbymanager	1.1.0	http://git:gitgit@titanium.barco.com/csne/standbymanager.git
touchsimulator	1.0.0	http://git:gitgit@titanium.barco.com/csne/touchsimulator.git
translator	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/translator
unfonts	1	http://kldp.net/frs/download.php/1425
watchdogkicker	HEAD	https://ntcsvn011.barco.com/repos/embedded/branches/SQUAD/SQ-NEXTEXP-W924/shared/application/watchdogkicker
webuihelper	1.0.0	http://git:gitgit@titanium.barco.com/csne/webui-helper.git
webui-tng	1.26.2	http://git:gitgit@titanium.barco.com/clsh/webui-tng.git
bc	1.06.95	http://alpha.gnu.org/gnu/bc

Package	Version	Source_STE
input-event-daemon	v0.1.3	https://github.com/gandro/input-event-daemon/archive/v0.1.3
libnspr	4,2	https://ftp.mozilla.org/pub/mozilla.org/nspr/releases/v4.20/src
libnss	3,39	https://ftp.mozilla.org/pub/mozilla.org/security/nss/releases/NSS_3_39_RTM/src
pcre2	10,3	https://ftp.pcre.org/pub/pcre
libsrp	2.1.2	https://github.com/secure-remote-password/stanford-srp/tree/master/libsrp
libfdk-aac	0.1.4	https://github.com/mstorsjo/fdk-aac
libalac	4	https://github.com/macosforge/alac
mDNSResponder	878.30.4	https://opensource.apple.com/source/mDNSResponder/
AOP Alliance Class library	1	https://sourceforge.net/projects/aopalliance/files/aopalliance/1.0/
Apache Log4j	1.2.17	https://archive.apache.org/dist/logging/log4j/1.2.17/
ASM Bytecode Manipulation	5.0.1	https://gitlab.ow2.org/asm/asm/tags/ASM_5_0_1
AspectJ Runtime	1.8.10	http://www.eclipse.org/downloads/download.php?file=/tools/aspectj/aspectj-1.8.10-src.jar
Boost	1,59	http://sourceforge.net/projects/boost/files/boost/1.59.0/boost_1_59_0.tar.bz2
Commons beanutils	1.8.0	https://archive.apache.org/dist/commons/beanutils/source/commons-beanutils-1.8.0-src.tar.gz
Commons beanutils	1.9.3	https://archive.apache.org/dist/commons/beanutils/source/commons-beanutils-1.9.3-src.tar.gz
Commons codec	1.9.0	https://archive.apache.org/dist/commons/codec/source/commons-codec-1.9-src.tar.gz
Commons codec	1,1	https://archive.apache.org/dist/commons/codec/source/commons-codec-1.10-src.tar.gz
Commons collections	3,1	https://archive.apache.org/dist/commons/collections/source/commons-collections-3.1-src.tar.gz
Commons collections	3.2.2	https://archive.apache.org/dist/commons/collections/source/commons-collections-3.2.2-src.tar.gz
Commons digester	2,1	https://archive.apache.org/dist/commons/digester/source/commons-digester-2.1-src.tar.gz
Commons fileupload	1.3.2	https://archive.apache.org/dist/commons/fileupload/source/commons-fileupload-1.3.2-src.tar.gz
Commons httpclient	3,1	https://www.apache.org/dist/httpcomponents/commons-httpclient/source/commons-httpclient-3.1-src.tar.gz
Commons httpclient	4.5.3	http://apache.belnet.be/httpcomponents/httpclient/source/httpcomponents-client-4.5.3-src.tar.gz
Commons IO	2,2	https://archive.apache.org/dist/commons/io/source/commons-io-2.2-src.tar.gz
Commons IO	2,5	https://archive.apache.org/dist/commons/io/source/commons-io-2.5-src.tar.gz

Package	Version	Source_STE
Commons lang	3,1	https://archive.apache.org/dist/commons/lang/source/commons-lang3-3.1-src.tar.gz
Commons lang	3,6	https://archive.apache.org/dist/commons/lang/source/commons-lang3-3.6-src.tar.gz
Commons logging	1,2	https://archive.apache.org/dist/commons/logging/source/commons-logging-1.2-src.tar.gz
Commons schema	1.4.5	https://github.com/apache/webservices-commons-xsmlschema/archive/XmlSchema-1.4.5.tar.gz
Commons text	1,1	https://archive.apache.org/dist/commons/text/source/commons-text-1.1-src.tar.gz
Commons Validator	1,6	https://archive.apache.org/dist/commons/validator/source/commons-validator-1.6-src.tar.gz
Eclipselink	2.6.4	http://mirror.switch.ch/eclipse/rt/eclipselink/releases/2.6.4/eclipselink-src-2.6.4.v20160829-44060b6.zip
Freemarker	2.3.22	https://sourceforge.net/projects/freemarker/files/freemarker/2.3.22/
Glassfish Components	2.2.4	https://mvnrepository.com/artifact/org.glassfish.web/javax.el/2.2.4
Google Guava Library	23	https://github.com/google/guava/releases/tag/v23.0
Graylog Extended Log Format for Java	1.1.15	https://github.com/t0xa/gelfj/archive/v1.1.15.tar.gz
H2 embedded database	1.4.196	http://repo2.maven.org/maven2/com/h2database/h2/1.4.196/h2-1.4.196-sources.jar
Hibernate Bean Validator	5.3.5.Final	https://github.com/hibernate/hibernate-validator/releases/tag/5.3.5.Final
HttpComponents	4.5.3	https://github.com/apache/httpcomponents-client/archive/4.5.3.tar.gz
Jackson JSON processor	2.2.3	http://central.maven.org/maven2/com/fasterxml/jackson/core/jackson-core/2.2.3/jackson-core-2.2.3-sources.jar
Jackson JSON Processor	2.8.9	http://central.maven.org/maven2/com/fasterxml/jackson/core/jackson-core/2.8.9/jackson-core-2.8.9-sources.jar
Jakarta Taglib Standards	1.1.0	https://archive.apache.org/dist/jakarta/taglibs/standard/source/jakarta-taglibs-standard-1.1.0-src.tar.gz
JavaBeans Activation Framework	1,1	https://mvnrepository.com/artifact/javax.activation/activation/1.1
JAXB XML Processor	0.6.4	https://mvnrepository.com/artifact/org.jvnet.jaxb2_commons/jaxb2-basics-runtime/0.6.4
Jcabi Manifest	1,1	https://github.com/jcabi/jcabi-manifests/releases/tag/1.1
Jetty embedded server	9.3.14	https://github.com/eclipse/jetty.project/releases/tag/jetty-9.3.14.v20161028

Package	Version	Source_STE
jQuery	1.4.4	https://github.com/jquery/jquery/releases/tag/1.4.4
jQuery-ui	1.8.9	https://github.com/jquery/jquery-ui/releases/tag/1.8.9
JSON in Java (org.json)	201310-18	http://central.maven.org/maven2/org/json/json/20131018/json-20131018-sources.jar
JSON processor used by GELFJ	1.1.1	https://github.com/t0xa/gelfj/archive/v1.1.1.tar.gz
JSON Web Token Library	0.7.0	http://central.maven.org/maven2/io/jsonwebtoken/jjwt/0.7.0/jjwt-0.7.0-sources.jar
KopiLua Scripting Engine	5.1.5	https://github.com/NLua/KopiLua
libCurl	7.48.0	https://github.com/curl/curl/releases/tag/curl-7_48_0
Liquibase database migration	3.5.3	https://github.com/liquibase/liquibase/releases/tag/liquibase-parent-3.5.3
Log4j	1.2.16	https://archive.apache.org/dist/logging/log4j/1.2.16/apache-log4j-1.2.16.tar.gz
Lua Scripting Engine	5.2.2	https://www.lua.org/ftp/lua-5.2.2.tar.gz
Luaj	3	https://sourceforge.net/projects/luaj/files/luaj-3.0/3.0/
Mapstruct	1.0.0	https://github.com/mapstruct/mapstruct/releases/tag/1.0.0.Final
MPI	1.8.6	https://download.open-mpi.org/release/open-mpi/v1.8/openmpi-1.8.6.tar.bz2
MVEL	2.2.8.Final	http://central.maven.org/maven2/org/mvel/mvel/2.2.8.Final/mvel-2.2.8.Final-sources.jar
nanhttpd	?	https://github.com/NanoHttpd/nanhttpd
Object-Graph Navigation Language (OGNL)	3.0.19	http://central.maven.org/maven2/ognl/ognl/3.0.19/ognl-3.0.19-sources.jar
OpenSSL	1.0.2l	http://www.openssl.org/source/openssl-1.0.2l.tar.gz
Passay	1.1.0	https://github.com/vt-middleware/passay/releases/tag/v1.1.0
SHA2 C- library	?	https://github.com/ouah/sha2
Simple Logging Façade for Java	1.7.25	https://github.com/qos-ch/slf4j/releases/tag/v_1.7.25
Spring Boot	1.5.6	https://repo1.maven.org/maven2/org/springframework/boot/spring-boot/1.5.6.RELEASE/spring-boot-1.5.6.RELEASE-sources.jar
Spring framework	4.2.4	https://github.com/spring-projects/spring-framework/releases/tag/v4.2.4.RELEASE
Springfox	2.5.0	https://github.com/springfox/springfox/releases/tag/2.5.0

Package	Version	Source_STE
StarkSoft	1.0.130	https://www.nuget.org/packages/starksoft.aspen/1.0.1
Struts	2.3.34	https://archive.apache.org/dist/struts/2.3.34/struts-2.3.34-src.zip
Swagger	1.5.9	https://github.com/swagger-api/swagger-core/releases/tag/v1.5.9
Tiles framework	2.0.6	https://archive.apache.org/dist/tiles/v2.0.6/tiles-2.0.6-src.tar.gz
TinyXML	2.5.3	https://sourceforge.net/projects/tinyxml/files/tinyxml/2.5.3/
Tomcat JDBC Connection Pool	8.5.6	http://central.maven.org/maven2/org/apache/tomcat/tomcat-jdbc/8.5.6/tomcat-jdbc-8.5.6-sources.jar
T-Rex	1,3	https://sourceforge.net/projects/tiny-rex/files/t-rex/trex%201.3/
YAML	1,17	https://mvnrepository.com/artifact/org.yaml/snakeyaml/1.17
wpa_suppl	2a9-c5217-b18b-e9462-a53296-26e2f95-cc7dd8-d4f1	http://w1.fi/hostap.git
wpa_passphrase	2a9-c5217-b18b-e9462-a53296-26e2f95-cc7dd8-d4f1	http://w1.fi/hostap.git
wpa_cli	2a9-c5217-b18b-e9462-a53296-26e2f95-cc7dd8-d4f1	http://w1.fi/hostap.git
hostapd	2a9-c5217-b18b-e9462-a53296-26e2f95-cc7dd8-d4f1	http://w1.fi/hostap.git
hostapd_cli	2a9-c5217-b18b-e9462-a53296-26e2f95-cc7dd8-d4f1	http://w1.fi/hostap.git
qca6174a-30	4.5.22.7	https://source.codeaurora.org/external/wlan/qcacld-2.0/

Package	Version	Source_STE
NXP SDK	2.5.0	https://www.nxp.com/support/developer-resources/software-development-tools/mcuxpresso-software-and-tools/mcuxpresso-software-development-kit-sdk:MCUXpresso-SDK?tab=Design_Tools_Tab
unlz4 ?	-	https://github.com/lz4/lz4/blob/dev/lib/lz4.h
ring-buff	-	https://code.google.com/archive/p/ring-buff/
wpa_supplicant	2.6	http://w1.fi/wpa_supplicant/

EN55032-CISPR32 Class B ITE (Information Technology Equipment)

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

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

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

Federal Communication Commission Interference Statement

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

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

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

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

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

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

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

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

FCC RF Radiation Exposure Statement: This device is capable of operating in 802.11a mode. For 802.11a devices operating in the frequency range of 5.15 - 5.25 GHz, they are restricted for indoor operations to reduce any potential harmful interference for Mobile Satellite Services (MSS) in the US. WIFI Access Points that are capable of allowing your device to operate in 802.11a mode (5.15 - 5.25 GHz band) are optimized for

indoor use only. If your WIFI network is capable of operating in this mode, please restrict your WIFI use indoors to not violate federal regulations to protect Mobile Satellite Services.

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

Base Unit FCC ID: 2AAED-R9861511

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

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

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

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

For country code selection usage (WLAN devices) :

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

Canada, Industry Canada (IC) Notices

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

Radio Frequency (RF) Exposure Information

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

Caution: Exposure to Radio Frequency Radiation.

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

Base Unit IC: IC: 21559-R9861511

Button IC (model R9861600D01C): 21559-R9861600D01

IC Antenna statement

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

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

Indoor use only warning

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

Certification information (SAR)

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

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

The highest SAR value reported to the IC for this device type when using in portable exposure conditions is 1.14 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 Unité de Base: 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 1.14 W/kg.

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Introduction

1

1.1 Versions of the product

Regional versions

Depending on the location where you buy the CX-20 product, the Base Unit and accessories are regionalized. By the time of release of this manual, 6 regional versions of CX-20 are available:

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



The regional version of your CX-20 cannot be changed. That means that you cannot use it in another region.

For more information on the regional variants, refer to the CX-20 Installation Guide.

Link between Barco product brand name and the model group

CX-20 is a Barco product of the model group C 3010S

1.2 About this guide

About the documentation

This user guide explains the practical use of the CX-20 .

Available System documentation

A printed copy of the Safety Guide is included in the CX-20 box at purchase. Other documentation such as user guide, installation manual and service manual can be downloaded from Barco's website,

www.barco.com/clickshare.



Depending on the CX-20 version, some graphics might be different to the ones used in this manual. This however does not have any effect on the functionality.

1.3 Symbols and fonts

Symbol overview

The following icons are used in the manual :

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

Font overview

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

Introduction to the CX-20

2

Overview

- About the CX-20
- About the Base Unit
- About the Button
- Mobile Device Support

2.1 About the CX-20

CX-20 sets

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

This CX-20 not only helps the presenter get the presentation on-screen in a second, but it also allows the other people in the conference to participate more actively. The result is enhanced meeting efficiency and better decision-making.

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

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

Components CX-20 set

A standard CX-20 set consists of a Base Unit and 1 Conferencing Buttons. Depending on the location where you buy the product, the software of the Base Unit is different. If needed, you can buy additional Conferencing Buttons and a tray to store the Buttons.

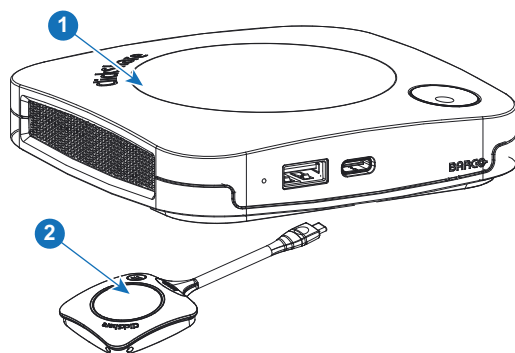


Image 2-1

- | | |
|---|----------------------------------|
| 1 | Base unit |
| 2 | Conferencing Button ² |

Accessories included

Depending on the country where you buy the product, the following regionalized accessories are also included in the CX-20 box.

Products

R9861512xx³

Contains

- R9861511
- 1x R9861600D01

Accessories included

- DC adapter with AC clips type A, C, G, I⁴
- Wall mount system
- Printed safety manual

R9861600D01C

1x R9861600D01C

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

2: Further called Button

3: xx=EU, CN, NA, US, ZH, RW,

4: Included AC clips can be different according to the region

2.2 About the Base Unit

Base Unit functionality

The Base Unit receives the wireless input from the Buttons and controls the content of the meeting room display and the peripherals connected to the Base Unit (speakers, microphones, webcam and soundbar). Furthermore, it will send out the content from the camera and/or the echo-cancelling speakerphone towards the Button.

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.

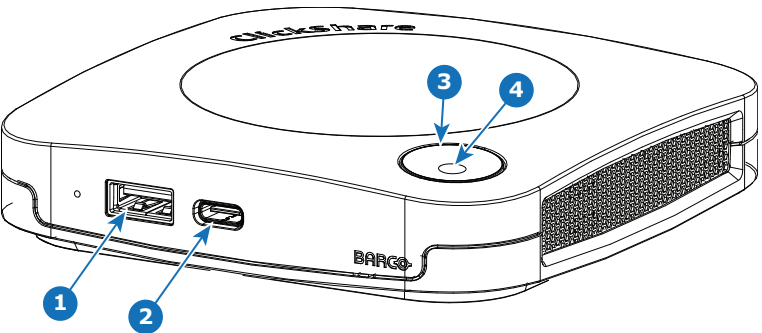


Image 2-2

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

USB ports

Both USB ports, one USB Type-C™ and one USB Type-A, are used to connect a touch screen, USB camera or USB echo-cancelling speakerphone to the Base Unit. Additionally these ports are also used to pair the Buttons or update the software when both are not done via XMS.

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

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 Buttons 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 progress - software 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

Power button

The button on top of the Base Unit has a standby function once the Base Unit is powered.

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

2.3 About the Button

Button layout

A Button consists of five main components

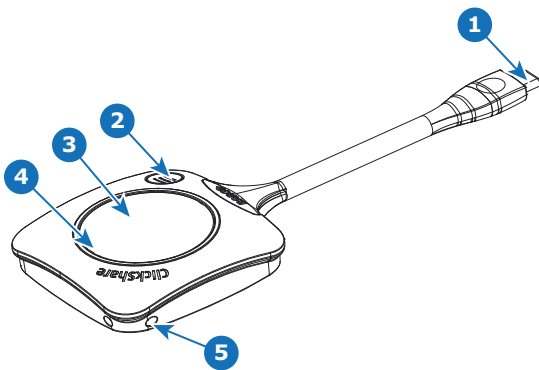


Image 2-3

1	USB Type-C™ connector
2	Quick access button
3	Button
4	LED ring
5	Strap hole

USB connector

Using the USB connector the Button can be plugged into a laptop (for sharing your screen) or the Base Unit (for pairing the Button to the Base Unit or updating its software). Button R9861600D1C has a USB Type-C™ connector. Depending on the type of USB port on your laptop or on the Base Unit a convertor must be used.

Button

By inserting the Button, the peripherals attached to the Base Unit can be used in the tool of your preference. Click the Button to display the content of the laptop's screen on the meeting room display. Clicking the Button during the meeting will toggle the sharing of the screen. Click the small button to get additional functionality and controls.

LED ring

The LED ring indicates the current status of your ClickShare.

LEDs behavior	Explanation
white ring filling up	• Button is plugged in the laptop and initializing. • Button is updating/pairing
green ring	• pairing and software update is done. You can now unplug the Button from the Base Unit.
spinning white circle	• Button is busy (no end time known). • ClickShare App is setting up the connection with the Base Unit.
white blinking	• the Button is waiting for the user to start the ClickShare application.
static white	• ClickShare is ready to start sharing your screen.
static red	• sharing your screen with the display⁵.
red blinking	• an error occurred.
off (no light)	• the Button is not or not properly inserted into the USB port. • the Button might be defective. • the USB port or computer might be defective.

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.

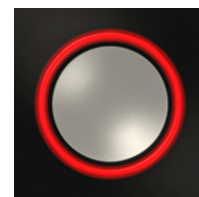
App

ClickShare App

Used on

iOS
Android
Windows

Logo



Apps can be downloaded from www.clickshare.app.

5: While sharing content, the laptop will not go to standby. Once sharing is stopped, the laptop will again be capable of going to standby.

Getting started

3

Overview

- Activating the base unit
- Basic Use, with Button
- Basic Use, with ClickShare desktop app
- User Interface
- Extended desktop
- Share specific window
- Audio configuration
- Pairing
- Room Dock

3.1 Activating the base unit

About power mode

The Base Unit is powered via an external power adapter. Once connected, the Base Unit is automatically switched in standby mode. For more information about power connection, see CX-20's installation manual.

Standby button

1. Push the button shortly.

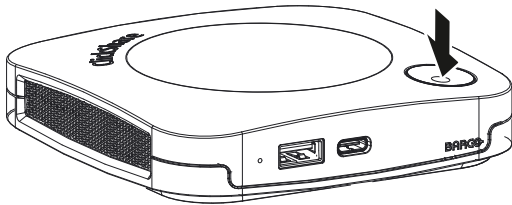


Image 3-1

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

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

3.2 Basic Use, with Button

Basic functionality

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

Starting to use ClickShare is now very simple.

To start using CX-20 with a Button

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

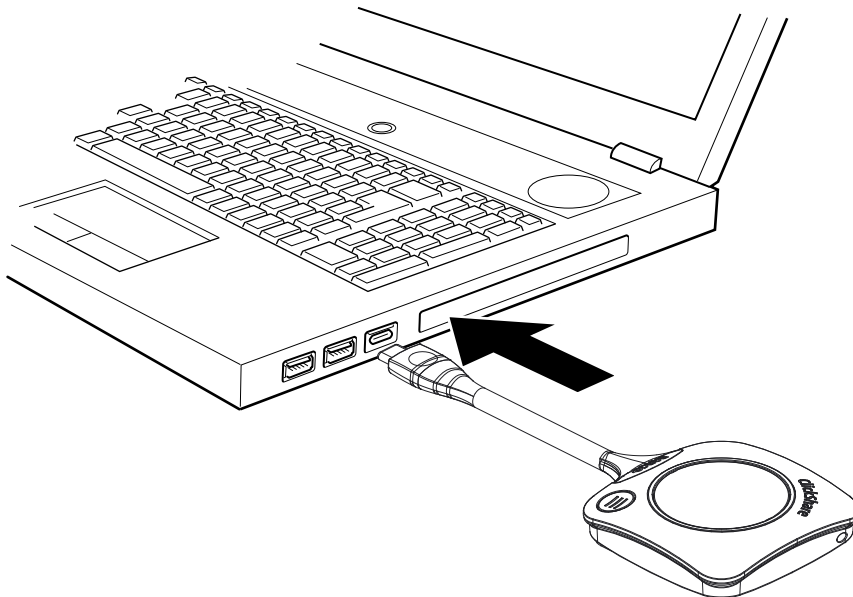


Image 3-2

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

On your laptop a new drive appears.

Different situations are possible now:

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

2. The application is started



The icon appears in the system tray.

When the system is ready for use, a message appears close to the systray icon. Message is as follow: Ready to share to <ClickShare name>

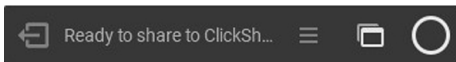


Image 3-3

The LEDs of the Button are static white.

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

3. To share your screen on the display, click the Button.

The LEDs of the Button become static red and your screen appears on the display. When audio is enabled on the ClickShare Base Unit, the audio of your laptop is also available on the audio output of the Base Unit, and it will be played via the meeting room audio system. The icon returns to the same state as in step 3.

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



The Ready to share message is reduced to the ClickShare icon .

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

4. To freeze the content on the screen while you look up something on your PC, just click on freeze icon (1) next to the ClickShare icon. The icon will change to a release icon (2)

To resume the content sharing, click on the the release icon (2).

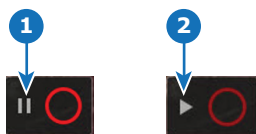


Image 3-4

5. To remove your content from the display, click the Button again.

The LEDs of the Button become static white.

6. When leaving the meeting room, unplug the Button from your laptop.

No trace of the ClickShare application is left on your laptop.



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

Quick access button

For the moment only the About window pops up. New functionality will be added to this quick access button in the near future.

3.3 Basic Use, with ClickShare desktop app

About the ClickShare desktop app

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

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

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

ClickShare desktop app installation

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

How to use

1. Enter a meeting room.

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

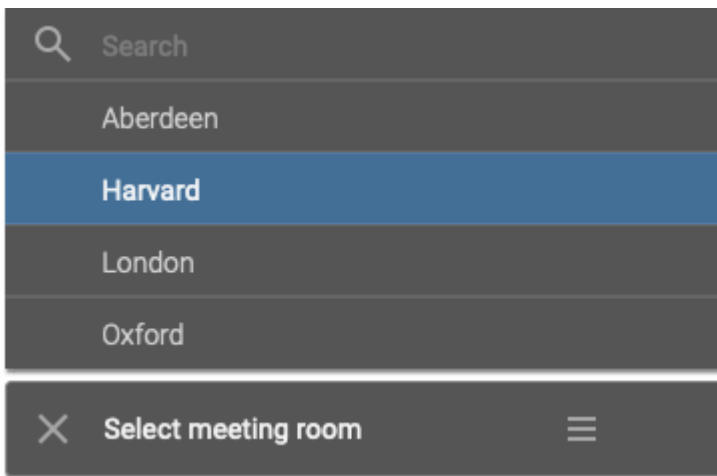


Image 3-5: Meeting room list

2. If the use of a passcode is enabled on the base unit, the ClickShare desktop app will prompt you to enter the passcode that is shown on the meeting room screen.

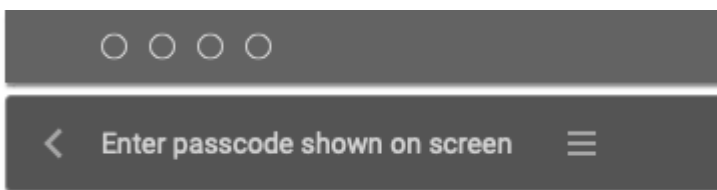


Image 3-6: Enter passcode

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

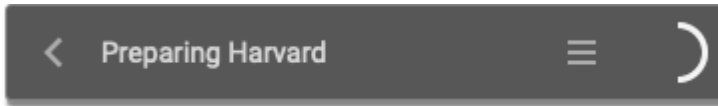


Image 3-7: Prepare connection



Image 3-8: Ready to share

3. Click the white circle to start sharing your content.

When the sharing is started, the ClickShare desktop app will become partially invisible through an animation. A subtle red half circle remains visible on your screen.

Hover over the half circle to either pause your sharing session and freeze the content on the screen while you work on your computer (invisible for people in the meeting room), or click on the red circle to stop sharing.

4. Stop sharing by hovering over circle and clicking on the full red circle.

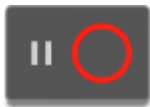


Image 3-9

5. Disconnect from the meeting room by clicking the “leave room” icon



Image 3-10: Leave meeting room

or

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

3.4 User Interface

User Interface functionality

When a Button is plugged in and ready for sharing, a context menu can be started.

Context menu

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

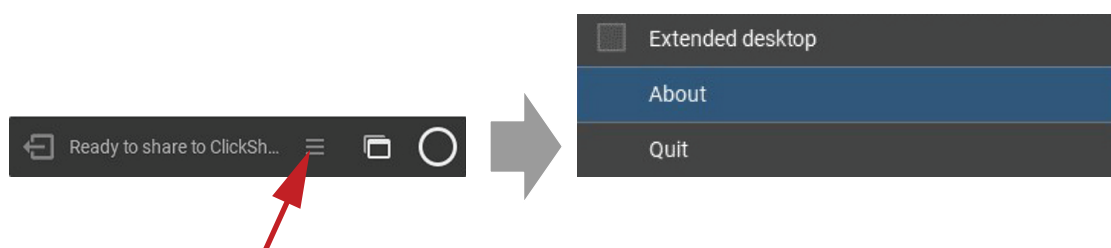


Image 3-11

The context menu appears.

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

3.5 Extended desktop

About extended desktop

Depending on your selection, your primary screen or your extended screen will be captured and displayed via ClickShare. That extended screen can be a physical screen or a virtual screen. To use extended desktop, the extension pack is required. It can be downloaded from <https://www.barco.com/en/product/clickshare-extension-pack>.

With extended desktop you can take advantage of both your laptop screen and the central meeting room display. Presentation notes or other material on primary screen will not be displayed to everyone.

PC with virtual extended screen:



Image 3-12

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



Image 3-13

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



Image 3-14

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

How to select

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

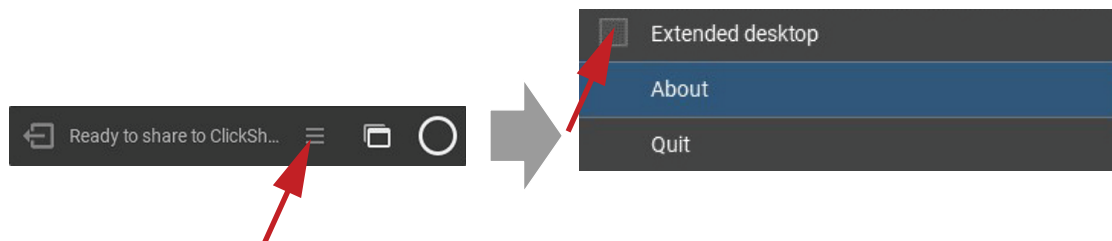


Image 3-15

The content menu opens.

2. Check the check box before Extended desktop.

3.6 Share specific window

About sharing a specific window

When *Share specific window* is enabled, you will be presented with an overview of open windows on your computer when pressing the share button. Once you select the window to share, only this window will be shared on the big screen

How to select

1. Click on the *share specific window* icon of the Ready to share message.

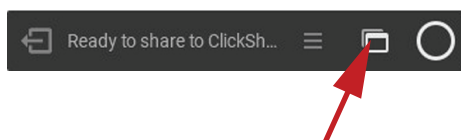


Image 3-16

The different open windows on your screen can be selected.

2. Hoover your mouse over the window to share. That window becomes blue.
3. Click on that window to select.

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

3.7 Audio configuration

Audio configuration

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

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

Audio configuration

The following configuration is the expected configuration for the playback devices when plugging the Button. ClickShare speaker as default device and room speakerphone as default communications device.

The speakerphone is available and can be used even when not on screen. The sound coming out of the speaker is only heard when sharing content. With this defaults, the content audio will be played by the speakers and communication clients (UC&C and conferencing tools) will use the room speakerphone. For best experience, the room speakerphone should be selected in the communications client at all times. Difference is that the audio from the Speakers will be lip-synced with the content, but will have higher latency. The communications device is optimized for the lowest latency possible, but no lip-sync is guaranteed with the video. For an optimal conference, the audio should always be transferred with lowest latency possible and will get priority over video.

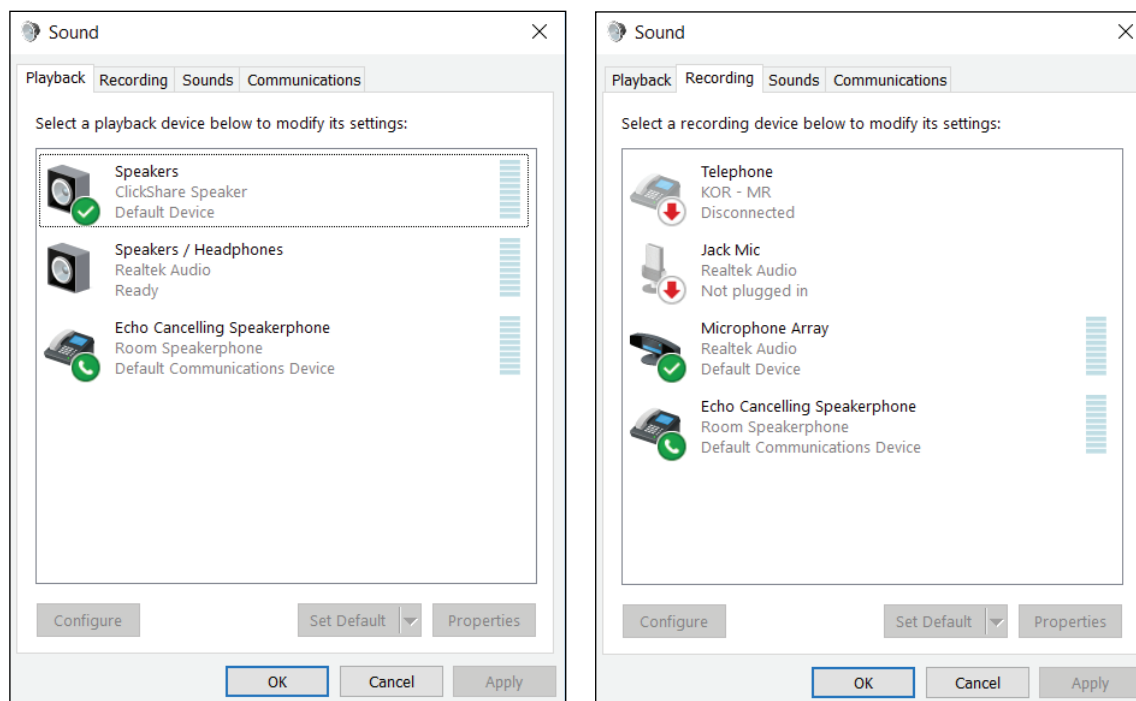


Image 3-17: Audio setup

3.8 Pairing

Pairing of the Buttons with the Base Unit

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

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



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

Pairing a Button can be done in two ways:

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

To pair a Button to the Base unit by plugging in

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



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

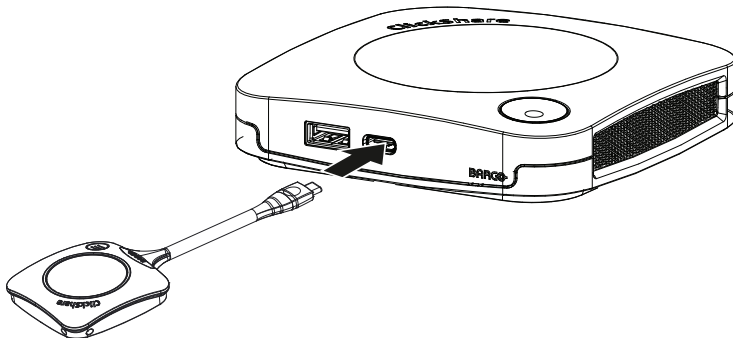


Image 3-18

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

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

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

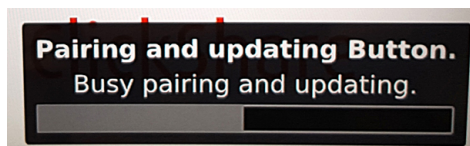


Image 3-19: Pairing message

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.

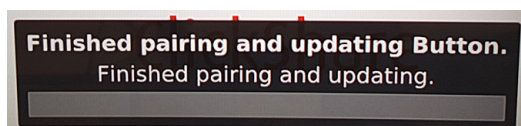


Image 3-20: Pairing finished

2. Unplug the Button from the Base Unit.
The Button is now ready for use.

3.9 Room Dock

About

Room Dock allows to create a wireless bridge for echo-cancelling speakphone and USB camera attached to the Base Unit. This allows the user to take advantage of the installed meeting room peripherals to have better audio and video conferencing using their typical videoconferencing tools like Skype or Zoom.

The echo-cancelling speakerphone and USB camera is accessible to any user that has a Button plugged in.

Troubleshooting

4

4.1 Basic troubleshooting

Problem solving

In this chapter some problems that might occur while using CX-20 are listed. For each problem possible causes are given and a solution is proposed. If you cannot solve the problem yourself, please contact your local IT administrator.

Generic issues

Problem	Cause	Solution
Your screen is not shown on the display when pressing the Button.	Wrong input is selected on the display.	Select the correct input on the display or on the room control system
	Base Unit in standby	Briefly push the standby button on the Base Unit or plug in a Button and run the ClickShare client software.
	You are the third person that wants to share the content to the display.	The first or second user has to push his button to remove his content so that a third user can share his content. or As third user, click and hold the Button to use the Show me function of ClickShare.
	The ClickShare client software is not running.	Go to the ClickShare drive and run the software.
Your screen is shown, but your audio is not playing on the meeting room audio system	Your audio signal on your PC is muted	Right click on the speaker icon and switch off the mute.
	Audio system of the meeting room is not switched on	Switch on the audio system of the meeting room.
	When using separate audio, audio cable is not connected	Check audio connection between the Base Unit (audio out, green connector) and the audio system of the meeting room.
	Default speaker is not correctly set	With a Button inserted, set ClickShare speaker as your default speaker.
	Buttons are not re-paired after changing the audio setting on the web interface	Re-pair the buttons.
	Audio setting on the web interface is not correctly set.	Consult your administrator to select the correct audio setting.
Your content is removed from the display and the LEDs of your Button are blinking white.	Connection to the Base Unit has been lost.	ClickShare tries to restore the connection automatically. If this fails, the LEDs of the Button start blinking red. You should unplug the Button from your laptop and start a new.
Nothing is shown on the display at all.	The display is switched off.	Switch on the display.
	Wrong input is selected.	Select the correct input.
	The display cable is not connected (correctly).	(Re)insert the display cable to the display and the Base Unit.

Problem	Cause	Solution
	The display does not recognize or is not able to display the Base Unit output resolution.	You or an administrator should change the corresponding setting via the web interface.
	The Base Unit is in standby mode.	Briefly push the standby button on the Base Unit or plug in a Button and run the ClickShare client software.
	The Base Unit is powered off.	Check if power adapter is connected to the Base unit and to the wall outlet.
	Wallpaper is disabled	If you connect a Button and start sharing, the content should be shown.
After inserting the Button into your laptop, you cannot find the ClickShare drive.	No automatic refresh of drives.	Refresh the view on your laptop.
	Bad connection at USB port on laptop.	• Reconnect to the USB port. • Try another USB port. • Reboot your laptop.
	Windows tries to assign the ClickShare drive to an already reserved drive letter	Use Microsoft Windows Disk Management to assign it to a free drive letter.
	IT policy not mount USB drives	Contact your IT responsible.
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 • Capture mode

Issues related to first time use and updating

Problem	Cause	Solution
Ethernet cable is inserted, but the Base Unit does not receive an IP address	Fixed IP address not configured. 802.X authentication required	Contact your IT responsible
Update server not reachable	Proxy server to be configured. Firewall is blocking the connection	Contact your IT responsible
Buttons do not connect after first time installation	Buttons not paired	Please pair the Buttons by plugging them into the USB ports of the Base Unit. Manual pairing only needs to be done once, after this, the Buttons will be automatically updated when updating the Base Unit
Unable to connect to internet	No internet available at the customer's site	Contact your IT responsible

Issues related to screen sharing (video/screen sharing)

Problem	Cause	Solution
After inserting the Button into your laptop, you cannot find the ClickShare drive.	Bad connection at USB port on laptop	Reconnect to the USB port, try another USB port, or reboot your laptop.

Problem	Cause	Solution
	Windows tries to assign the ClickShare drive to an already reserved drive letter	Use Microsoft Windows Disk Management to assign it to a free drive letter.
	Bad block on the mass storage	Please re-pair the Button with the Base Unit to restore the flash
I cannot start the ClickShare App	Running 3rd party applications is blocked by IT	Contact your IT responsible. In the meantime, you can share your screen using your device's native protocols
	You are using a Linux PC or ChromeBook	Use the device's native protocols to share on screen
Button LEDs are blinking	Clickshare Application has not been started	Start the application on the ClickShare Button's mass storage or download and run the ClickShare Desktop App.
Screen is not shown when pressing the Button although Button LED is static white.	Already two people on screen	Long press the Button to kick off all other sources from screen. Or ask for somebody to remove its source from screen
	Somebody is moderating the session	Request the moderator to put you on screen or claim the moderation role from the ClickShare application
Your shared content becomes grayed out.	Connection between the ClickShare application (or Button) and the Base Unit is lost	ClickShare tries to restore the connection automatically. If this fails, the LEDs of the Button start blinking red. You should unplug the Button from your laptop and start a new
Button cannot connect to the Base Unit. Button LEDs keep spinning.	Button is not paired to correct Base Unit.	Pair the Buttons with the Base Unit .
	Base Unit settings have changed and Button has not been paired again.	Pair the Buttons with the Base Unit.
When network integrated, the Button cannot find the Base Unit.	IP address of the Base Unit has changed.	Pair the Buttons with the Base Unit.
	The Button cannot connect to the Base Unit due to firewall settings.	Contact your IT responsible.
Quality of the image displayed is not satisfactory.	Button is using a channel with high utilization.	Contact your IT responsible.
	Base Unit antennas are obstructed.	Make sure no insulation or metal plating or a cage is placed around the Base Unit. If too far, place the Base Unit closer to the location of the Buttons. Preferably, have line of sight between Base Unit and Button.
	Low signal strength	Place the Base Unit closer to the location of the Buttons. Check the settings of the Base Unit to see if the power of the wireless signal has not been set too low.

Problem	Cause	Solution
	Laptop performance	If the video performance is acceptable with a higher performing laptop, laptop performance might be the cause of bad video playback. To reduce the load on the laptop, you can: • Lower the resolution of the laptop screen • Use application sharing in the ClickShare app to only share a part of the screen. • Disable hardware acceleration for video. • Disable extended screen sharing
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. In Windows 7, disable AeroGlass.
Unable to share from extended desktop.	Mac OS	The Clickshare Extension pack only works with Windows. This feature is available to Mac users through Airplay. An alternative is to use the Window sharing functionality in the ClickShare Desktop App
	Extension pack not installed	In order to have a second screen on your computer when using ClickShare, you will need to download and install the ClickShare extension pack. barco.com/clickshare/extensionpack
	Old Extension pack installed	ClickShare will only work with the latest version of the Extension Pack. Please uninstall the extension pack and install the latest version. barco.com/clickshare/extensionpack

Issues related to screen sharing (audio of shared content)

Problem	Cause	Solution
Your screen is shown, but your audio is not playing on the meeting room audio system.	Your audio signal on your PC is muted. Audio system of the meeting room is not switched on or not connected.	Right click on the speaker icon and switch off the mute. Switch on the audio system of the meeting room. Check audio connection between the Base Unit and the audio system of the meeting room.
There is no ClickShare audio device for me to select on my computer.	Audio output of the Base Unit is not correctly configured. Audio device is not available in my OS when I plug in the Button after changing audio settings on my Base Unit.	Ask your administrator to configure audio of the Base Unit. Re-pair the Buttons with the Base Unit.

Problem	Cause	Solution
ClickShare audio device is visible, but sound is coming out of my own device or other audio device connected to my computer.	Audio output of the Button is not selected.	In Windows, left click on the speaker icon and select the ClickShare Speaker.
	ClickShare speaker is not selected as default device.	In Windows, right click on the speaker icon and select "Playback devices". In the Playback tab, right click on the ClickShare Speaker and select as "Default device", on the ClickShare Speakerphone if available, right click and select as "Default communications device".
Audio is heard in the room while not sharing on the big screen.	ClickShare speakerphone is selected as default device.	In Windows, right click on the speaker icon and select "Playback devices". In the Playback tab, right click on the ClickShare Speaker and select as "Default device", on the ClickShare Speakerphone if available, right click and select as "Default communications device".
Audio and video are not in sync.	ClickShare speakerphone is selected as audio device.	In Windows, left click on the speaker icon and select the ClickShare Speaker See also above for to select the ClickShare Speaker as default audio device.



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