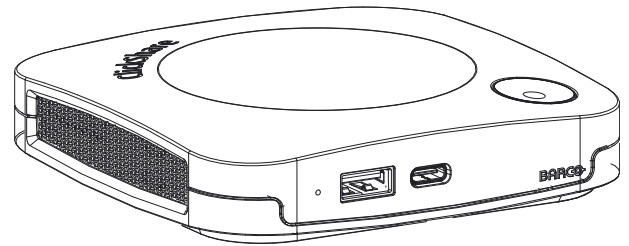


# CX-20

Model: C 3010S, R9861600D01C



## User Guide

**Barco NV**

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alsa-utils	1.1.7	<a href="ftp://ftp.alsa-project.org/pub/utils">ftp://ftp.alsa-project.org/pub/utils</a>
libsamplerate	0.1.9	<a href="http://www.mega-nerd.com/SRC">http://www.mega-nerd.com/SRC</a>
libsndfile	1.0.28	<a href="http://www.mega-nerd.com/libsndfile/files">http://www.mega-nerd.com/libsndfile/files</a>
ncurses	6,1	<a href="http://ftpmirror.gnu.org/ncurses">http://ftpmirror.gnu.org/ncurses</a>
avahi	0,7	<a href="https://github.com/lathiat/avahi/releases/download/v0.7">https://github.com/lathiat/avahi/releases/download/v0.7</a>
dbus	1.12.16	<a href="https://dbus.freedesktop.org/releases/dbus">https://dbus.freedesktop.org/releases/dbus</a>
expat	2.2.7	<a href="http://downloads.sourceforge.net/project/expat/expat/2.2.7">http://downloads.sourceforge.net/project/expat/expat/2.2.7</a>
libselenium	2,8	<a href="https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/releases/20180524">https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/releases/20180524</a>
libsepol	2,8	<a href="https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/releases/20180524">https://raw.githubusercontent.com/wiki/SELinuxProject/selinux/files/releases/20180524</a>
pcre	8,42	<a href="https://ftp.pcre.org/pub/pcre">https://ftp.pcre.org/pub/pcre</a>
python3	3.7.4	<a href="https://python.org/ftp/python/3.7.4">https://python.org/ftp/python/3.7.4</a>

<b>PACKAGE</b>	<b>VERSION</b>	<b>SOURCE</b>
libffi	v3.3-rc0	<a href="https://github.com/libffi/libffi/archive/v3.3-rc0">https://github.com/libffi/libffi/archive/v3.3-rc0</a>
libzlib	1.2.11	<a href="http://www.zlib.net">http://www.zlib.net</a>
libdaemon	0,14	<a href="http://0pointer.de/lennart/projects/libdaemon">http://0pointer.de/lennart/projects/libdaemon</a>
libglib2	2.56.4	<a href="http://ftp.gnome.org/pub/gnome/sources/glib/2.56">http://ftp.gnome.org/pub/gnome/sources/glib/2.56</a>
elfutils(tool)	0,176	<a href="https://sourceware.org/elfutils/ftp/0.176">https://sourceware.org/elfutils/ftp/0.176</a>
elfutils(library)	0,176	<a href="https://sourceware.org/elfutils/ftp/0.176">https://sourceware.org/elfutils/ftp/0.176</a>
bzip2	1.0.8	<a href="http://www.bzip.org/1.0.8">http://www.bzip.org/1.0.8</a>
util-linux	2,33	<a href="https://cdn.kernel.org/pub/linux/utils/util-linux/v2.33">https://cdn.kernel.org/pub/linux/utils/util-linux/v2.33</a>
linux-pam	1.3.1	<a href="https://github.com/linux-pam/linux-pam/releases/download/v1.3.1">https://github.com/linux-pam/linux-pam/releases/download/v1.3.1</a>
flex	2.6.4	<a href="https://github.com/westes/flex/files/981163">https://github.com/westes/flex/files/981163</a>
readline	8	<a href="http://ftpmirror.gnu.org/readline">http://ftpmirror.gnu.org/readline</a>
bc	1.06.95	<a href="http://alpha.gnu.org/gnu/bc">http://alpha.gnu.org/gnu/bc</a>
bellagio	0.9.3	<a href="http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3">http://downloads.sourceforge.net/project/omxil/omxil/Bellagio%200.9.3</a>
bitstream	1,4	<a href="https://get.videolan.org/bitstream/1.4">https://get.videolan.org/bitstream/1.4</a>
bluez5_utils	5,5	<a href="https://cdn.kernel.org/pub/linux/bluetooth">https://cdn.kernel.org/pub/linux/bluetooth</a>
libical	1.0.1	<a href="https://github.com/libical/libical/releases/download/v1.0.1">https://github.com/libical/libical/releases/download/v1.0.1</a>
eudev	3.2.7	<a href="http://dev.gentoo.org/~blueness/eudev">http://dev.gentoo.org/~blueness/eudev</a>
kmod	25	<a href="https://cdn.kernel.org/pub/linux/utils/kernel/kmod">https://cdn.kernel.org/pub/linux/utils/kernel/kmod</a>
bridge-utils	1,6	<a href="https://cdn.kernel.org/pub/linux/utils/net/bridge-utils">https://cdn.kernel.org/pub/linux/utils/net/bridge-utils</a>
busybox	1.29.3	<a href="http://www.busybox.net/downloads">http://www.busybox.net/downloads</a>
dosfstools	4,1	<a href="https://github.com/dosfstools/dosfstools/releases/download/v4.1">https://github.com/dosfstools/dosfstools/releases/download/v4.1</a>
e2fsprogs (libss and libet)	1.44.5	<a href="https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.44.5">https://cdn.kernel.org/pub/linux/kernel/people/tytso/e2fsprogs/v1.44.5</a>
iproute2	4.19.0	<a href="https://cdn.kernel.org/pub/linux/utils/net/iproute2">https://cdn.kernel.org/pub/linux/utils/net/iproute2</a>
iptables	1.8.2	<a href="http://ftp.netfilter.org/pub/iptables">http://ftp.netfilter.org/pub/iptables</a>
netcat	0.7.1	<a href="http://downloads.sourceforge.net/project/netcat/netcat/0.7.1">http://downloads.sourceforge.net/project/netcat/netcat/0.7.1</a>
ntp	4.2.8p13	<a href="https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2">https://www.eecis.udel.edu/~ntp/ntp_spool/ntp4/ntp-4.2</a>
libedit	20180525-3.1	<a href="http://www.thrysoee.dk/editline">http://www.thrysoee.dk/editline</a>
libbsd	0.10.0	<a href="https://archive.hadrons.org/software/libbsd">https://archive.hadrons.org/software/libbsd</a>
libevent	2.1.8-stable	<a href="https://github.com/libevent/libevent/releases/download/release-2.1.8-stable">https://github.com/libevent/libevent/releases/download/release-2.1.8-stable</a>
libopenssl	1.1.1c	<a href="http://www.openssl.org/source">http://www.openssl.org/source</a>
pciutils	3.5.5	<a href="https://cdn.kernel.org/pub/software/utils/pciutils">https://cdn.kernel.org/pub/software/utils/pciutils</a>
unzip	60	<a href="ftp://ftp.info-zip.org/pub/infozip/src">ftp://ftp.info-zip.org/pub/infozip/src</a>

<b>PACKAGE</b>	<b>VERSION</b>	<b>SOURCE</b>
usbutils	10	<a href="https://cdn.kernel.org/pub/linux/utils/usb/usbutils">https://cdn.kernel.org/pub/linux/utils/usb/usbutils</a>
libusb	1.0.22	<a href="https://github.com/libusb/libusb/releases/download/v1.0.22">https://github.com/libusb/libusb/releases/download/v1.0.22</a>
c-ares	1.15.0	<a href="http://c-ares.haxx.se/download">http://c-ares.haxx.se/download</a>
ca-certificates	20190110	<a href="http://snapshot.debian.org/archive/debian/20190513T145054Z/pool/main/c/ca-certificates">http://snapshot.debian.org/archive/debian/20190513T145054Z/pool/main/c/ca-certificates</a>
collectd	5.7.2	<a href="http://collectd.org/files">http://collectd.org/files</a>
libgcrypt	1.8.4	<a href="https://gnupg.org/ftp/gcrypt/libgcrypt">https://gnupg.org/ftp/gcrypt/libgcrypt</a>
libpgp-error	1,33	<a href="ftp://ftp.gnupg.org/gcrypt/libpgp-error">ftp://ftp.gnupg.org/gcrypt/libpgp-error</a>
lm-sensors (libsensors)	3.5.0	<a href="https://github.com/lm-sensors/lm-sensors/archive/V3-5-0">https://github.com/lm-sensors/lm-sensors/archive/V3-5-0</a>
lm-sensors (programs)	3.5.0	<a href="https://github.com/lm-sensors/lm-sensors/archive/V3-5-0">https://github.com/lm-sensors/lm-sensors/archive/V3-5-0</a>
crda	4,14	<a href="https://git.kernel.org/pub/scm/linux/kernel/git/mcgrof/crda.git/snapshot">https://git.kernel.org/pub/scm/linux/kernel/git/mcgrof/crda.git/snapshot</a>
libnl	3.4.0	<a href="https://github.com/thom311/libnl/releases/download/libnl3_4_0">https://github.com/thom311/libnl/releases/download/libnl3_4_0</a>
cryptsetup	2.0.6	<a href="https://cdn.kernel.org/pub/linux/utils/cryptsetup/v2.0">https://cdn.kernel.org/pub/linux/utils/cryptsetup/v2.0</a>
json-c	0.13.1	<a href="https://s3.amazonaws.com/json-c_releases/releases">https://s3.amazonaws.com/json-c_releases/releases</a>
lvml2	2.02.183	<a href="ftp://sources.redhat.com/pub/lvml2/releases">ftp://sources.redhat.com/pub/lvml2/releases</a>
libaio	0.3.111	<a href="https://releases.pagure.org/libaio">https://releases.pagure.org/libaio</a>
popt	1,16	<a href="http://rpm5.org/files/popt">http://rpm5.org/files/popt</a>
dhcp	4.3.6	<a href="http://ftp.isc.org/isc/dhcp/4.3.6">http://ftp.isc.org/isc/dhcp/4.3.6</a>
dnsmasq	2,79	<a href="http://thekelleys.org.uk/dnsmasq">http://thekelleys.org.uk/dnsmasq</a>
dropbear	2018,76	<a href="https://matt.ucc.asn.au/dropbear/releases">https://matt.ucc.asn.au/dropbear/releases</a>
dvblast	3,4	<a href="https://get.videolan.org/dvblast/3.4">https://get.videolan.org/dvblast/3.4</a>
libev	4,24	<a href="http://dist.schmorp.de/libev/Attic">http://dist.schmorp.de/libev/Attic</a>
faad2	2.8.8	<a href="http://downloads.sourceforge.net/project/faac/faad2-src/faad2-2.8.0">http://downloads.sourceforge.net/project/faac/faad2-src/faad2-2.8.0</a>
fbv	1.0b	<a href="http://s-tech.elsat.net.pl/fbv">http://s-tech.elsat.net.pl/fbv</a>
giflib	5.1.4	<a href="http://downloads.sourceforge.net/project/giflib">http://downloads.sourceforge.net/project/giflib</a>
jpeg-turbo	2.0.1	<a href="https://downloads.sourceforge.net/project/libjpeg-turbo/2.0.1">https://downloads.sourceforge.net/project/libjpeg-turbo/2.0.1</a>
libpng	1.6.37	<a href="http://downloads.sourceforge.net/project/libpng/libpng16/1.6.37">http://downloads.sourceforge.net/project/libpng/libpng16/1.6.37</a>
ffmpeg	4.1.3	<a href="http://ffmpeg.org/releases">http://ffmpeg.org/releases</a>
fontconfig	2.13.1	<a href="http://fontconfig.org/release">http://fontconfig.org/release</a>
freetype	2.9.1	<a href="http://download.savannah.gnu.org/releases/freetype">http://download.savannah.gnu.org/releases/freetype</a>
libva	2.4.0	<a href="https://github.com/01org/libva/releases/download/2.4.0">https://github.com/01org/libva/releases/download/2.4.0</a>
libdrm	2.4.97	<a href="https://dri.freedesktop.org/libdrm">https://dri.freedesktop.org/libdrm</a>
libpthread- stubs	0,4	<a href="http://xcb.freedesktop.org/dist">http://xcb.freedesktop.org/dist</a>

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libvorbis	1.3.6	<a href="http://downloads.xiph.org/releases/vorbis">http://downloads.xiph.org/releases/vorbis</a>
libogg	1.3.3	<a href="http://downloads.xiph.org/releases/ogg">http://downloads.xiph.org/releases/ogg</a>
libvpx	1.7.0	<a href="http://storage.googleapis.com/downloads.webmproject.org/releases/webm">http://storage.googleapis.com/downloads.webmproject.org/releases/webm</a>
opus	1.3.1	<a href="https://downloads.xiph.org/releases/opus">https://downloads.xiph.org/releases/opus</a>
speex	1.2.0	<a href="http://downloads.us.xiph.org/releases/speex">http://downloads.us.xiph.org/releases/speex</a>
speexdsp	20e-d3452074664a-d07e380-e51321b148a-cebdf20	<a href="https://git.xiph.org/speexdsp.git">https://git.xiph.org/speexdsp.git</a>
file	5,36	<a href="ftp://ftp.astron.com/pub/file">ftp://ftp.astron.com/pub/file</a>
gdb	8.1.1	<a href="http://ftpmirror.gnu.org/gdb">http://ftpmirror.gnu.org/gdb</a>
gnupg2	2.2.17	<a href="https://gnupg.org/ftp/gcrypt/gnupg">https://gnupg.org/ftp/gcrypt/gnupg</a>
libassuan	2.5.2	<a href="ftp://ftp.gnupg.org/gcrypt/libassuan">ftp://ftp.gnupg.org/gcrypt/libassuan</a>
libksba	1.3.5	<a href="ftp://ftp.gnupg.org/gcrypt/libksba">ftp://ftp.gnupg.org/gcrypt/libksba</a>
libnpth	1,6	<a href="https://www.gnupg.org/ftp/gcrypt/npth">https://www.gnupg.org/ftp/gcrypt/npth</a>
sqlite	3280000	<a href="https://www.sqlite.org/2019">https://www.sqlite.org/2019</a>
gssdp	1.0.2	<a href="http://ftp.gnome.org/pub/gnome/sources/gssdp/1.0">http://ftp.gnome.org/pub/gnome/sources/gssdp/1.0</a>
libsoup	2.62.3	<a href="http://ftp.gnome.org/pub/gnome/sources/libsoup/2.62">http://ftp.gnome.org/pub/gnome/sources/libsoup/2.62</a>
gst1-libav	1.14.4	<a href="https://gstreamer.freedesktop.org/src/gst-libav">https://gstreamer.freedesktop.org/src/gst-libav</a>
gst1-plugins-base	1.14.4	<a href="https://gstreamer.freedesktop.org/src/gst-plugins-base">https://gstreamer.freedesktop.org/src/gst-plugins-base</a>
gstreamer1	1.14.4	<a href="https://gstreamer.freedesktop.org/src/gstreamer">https://gstreamer.freedesktop.org/src/gstreamer</a>
gst1-plugins-bad	1.14.4	<a href="https://gstreamer.freedesktop.org/src/gst-plugins-bad">https://gstreamer.freedesktop.org/src/gst-plugins-bad</a>
gst1-plugins-good	1.14.4	<a href="https://gstreamer.freedesktop.org/src/gst-plugins-good">https://gstreamer.freedesktop.org/src/gst-plugins-good</a>
libv4l	1.16.3	<a href="https://linuxtv.org/downloads/v4l-utils">https://linuxtv.org/downloads/v4l-utils</a>
icu	60,2	<a href="http://download.icu-project.org/files/icu4c/60.2">http://download.icu-project.org/files/icu4c/60.2</a>
pcre2	10,32	<a href="https://ftp.pcre.org/pub/pcre">https://ftp.pcre.org/pub/pcre</a>
gst1-vaapi	1.14.4	<a href="https://gstreamer.freedesktop.org/src/gstreamer-vaapi">https://gstreamer.freedesktop.org/src/gstreamer-vaapi</a>
htop	2.2.0	<a href="http://hisham.hm/htop/releases/2.2.0">http://hisham.hm/htop/releases/2.2.0</a>
input-event-daemon	v0.1.3	<a href="https://github.com/gandro/input-event-daemon/archive/v0.1.3">https://github.com/gandro/input-event-daemon/archive/v0.1.3</a>
iperf3	3,6	<a href="https://downloads.es.net/pub/iperf">https://downloads.es.net/pub/iperf</a>
iw	4,14	<a href="https://cdn.kernel.org/pub/software/network/iw">https://cdn.kernel.org/pub/software/network/iw</a>
jansson	2,12	<a href="http://www.digip.org/jansson/releases">http://www.digip.org/jansson/releases</a>
jose	10	<a href="https://github.com/latchset/jose/releases/download/v10">https://github.com/latchset/jose/releases/download/v10</a>

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jsoncpp	1.8.4	<a href="https://github.com/open-source-parsers/jsoncpp/archive/1.8.4">https://github.com/open-source-parsers/jsoncpp/archive/1.8.4</a>
libarchive	3.3.3	<a href="http://www.libarchive.org/downloads">http://www.libarchive.org/downloads</a>
libxml2	2.9.9	<a href="ftp://xmlsoft.org/libxml2">ftp://xmlsoft.org/libxml2</a>
libconfig	1.7.2	<a href="http://www.hyperrealm.com/libconfig">http://www.hyperrealm.com/libconfig</a>
libcurl	7.65.3	<a href="https://curl.haxx.se/download">https://curl.haxx.se/download</a>
libestr	0.1.10	<a href="http://libestr.adiscon.com/files/download">http://libestr.adiscon.com/files/download</a>
libfastjson	v0.99.8	<a href="https://github.com/rsyslog/libfastjson/archive/v0.99.8">https://github.com/rsyslog/libfastjson/archive/v0.99.8</a>
libhttpparser	v2.9.0	<a href="https://github.com/nodejs/http-parser/archive/v2.9.0">https://github.com/nodejs/http-parser/archive/v2.9.0</a>
liblogging	1.0.6	<a href="http://download.rsyslog.com/liblogging">http://download.rsyslog.com/liblogging</a>
libnspr	4,2	<a href="https://ftp.mozilla.org/pub/mozilla.org/nspr/releases/v4.20/src">https://ftp.mozilla.org/pub/mozilla.org/nspr/releases/v4.20/src</a>
libnss	3.42.1	<a href="https://ftp.mozilla.org/pub/mozilla.org/security/nss/releases/NSS_3_42_1_RTM/src">https://ftp.mozilla.org/pub/mozilla.org/security/nss/releases/NSS_3_42_1_RTM/src</a>
libopusenc	0.2.1	<a href="https://downloads.xiph.org/releases/opus">https://downloads.xiph.org/releases/opus</a>
libpcap	1.9.0	<a href="http://www.tcpdump.org/release">http://www.tcpdump.org/release</a>
libqrencode	4.0.0	<a href="http://fukuchi.org/works/qrencode">http://fukuchi.org/works/qrencode</a>
libsha1	0,3	<a href="https://github.com/dottedmag/libsha1/archive/0.3">https://github.com/dottedmag/libsha1/archive/0.3</a>
libtool	2.4.6	<a href="http://ftpmirror.gnu.org/libtool">http://ftpmirror.gnu.org/libtool</a>
libuv	v1.25.0	<a href="https://github.com/libuv/libuv/archive/v1.25.0">https://github.com/libuv/libuv/archive/v1.25.0</a>
libyaml	0.2.1	<a href="http://pyyaml.org/download/libyaml">http://pyyaml.org/download/libyaml</a>
libzip	1.5.1	<a href="http://www.nih.at/libzip">http://www.nih.at/libzip</a>
lighttpd	1.4.53	<a href="http://download.lighttpd.net/lighttpd/releases-1.4.x">http://download.lighttpd.net/lighttpd/releases-1.4.x</a>
logrotate	3.13.0	<a href="https://github.com/logrotate/logrotate/archive/3.13.0">https://github.com/logrotate/logrotate/archive/3.13.0</a>
memtester	4.3.0	<a href="http://pyropus.ca/software/memtester/old-versions">http://pyropus.ca/software/memtester/old-versions</a>
monit	5.25.3	<a href="http://mmonit.com/monit/dist">http://mmonit.com/monit/dist</a>
net-snmp	5,8	<a href="https://downloads.sourceforge.net/project/net-snmp/net-snmp/5.8">https://downloads.sourceforge.net/project/net-snmp/net-snmp/5.8</a>
nodejs	8.15.1	<a href="http://nodejs.org/dist/v8.15.1">http://nodejs.org/dist/v8.15.1</a>
opkg	0.3.6	<a href="http://git.yoctoproject.org/git/opkg">http://git.yoctoproject.org/git/opkg</a>
opus-tools	0,2	<a href="https://downloads.xiph.org/releases/opus">https://downloads.xiph.org/releases/opus</a>
opusfile	0,11	<a href="https://downloads.xiph.org/releases/opus">https://downloads.xiph.org/releases/opus</a>
php	7.3.9	<a href="https://ftp.pcre.org/pub/pcre">https://ftp.pcre.org/pub/pcre</a>
portaudio	v190600_20161030	<a href="http://www.portaudio.com/archives">http://www.portaudio.com/archives</a>
powertop	2,9	<a href="https://01.org/sites/default/files/downloads/powertop">https://01.org/sites/default/files/downloads/powertop</a>
protobuf	2.6.1	<a href="https://github.com/google/protobuf/archive/v2.6.1">https://github.com/google/protobuf/archive/v2.6.1</a>

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python-pyyaml	4.2b4	<a href="https://files.pythonhosted.org/packages/a8/c6/a8d1555e795dbd0375c3c93b576ca13bbf139db51ea604a-fa19a2c35fc03">https://files.pythonhosted.org/packages/a8/c6/a8d1555e795dbd0375c3c93b576ca13bbf139db51ea604a-fa19a2c35fc03</a>
python-serial	3,4	<a href="https://files.pythonhosted.org/packages/cc/74/11b04703ec416717b247d789103277269d567db575d2fd88f25d9767f-e3d">https://files.pythonhosted.org/packages/cc/74/11b04703ec416717b247d789103277269d567db575d2fd88f25d9767f-e3d</a>
qt5base	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5declarative	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5xmlpatterns	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5imageformats	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5multimedia	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5quickcontrols	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5quickcontrols2	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5serialport	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5svg	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5webchannel	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5websockets	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
qt5webengine	5.12.4	<a href="https://download.qt.io/archive/qt/5.12/5.12.4/submodules">https://download.qt.io/archive/qt/5.12/5.12.4/submodules</a>
webp	1.0.1	<a href="http://downloads.webmproject.org/releases/webp">http://downloads.webmproject.org/releases/webp</a>
ramspeed	2.6.0	<a href="http://www.alasir.com/software/ramspeed">http://www.alasir.com/software/ramspeed</a>
rsync	3.1.3	<a href="http://rsync.samba.org/ftp/rsync/src">http://rsync.samba.org/ftp/rsync/src</a>
rsyslog	8.22.0	<a href="http://rsyslog.com/files/download/rsyslog">http://rsyslog.com/files/download/rsyslog</a>
strace	4,26	<a href="http://downloads.sourceforge.net/project/strace/strace/4.20">http://downloads.sourceforge.net/project/strace/strace/4.20</a>
tcpdump	4.9.2	<a href="http://www.tcpdump.org/release">http://www.tcpdump.org/release</a>
trousers	0.3.14	<a href="http://downloads.sourceforge.net/project/trousers/trousers/0.3.14">http://downloads.sourceforge.net/project/trousers/trousers/0.3.14</a>
tpm-tools	1.3.9.1	<a href="http://downloads.sourceforge.net/project/trousers/tpm-tools/1.3.9.1">http://downloads.sourceforge.net/project/trousers/tpm-tools/1.3.9.1</a>
tzdata	2018e	<a href="http://www.iana.org/time-zones/repository/releases">http://www.iana.org/time-zones/repository/releases</a>
wireless-regdb	2019.06.03	<a href="https://cdn.kernel.org/pub/software/network/wireless-regdb">https://cdn.kernel.org/pub/software/network/wireless-regdb</a>
wireless_tools	30.pre9	<a href="https://hewlettpackard.github.io/wireless-tools">https://hewlettpackard.github.io/wireless-tools</a>
zip	30	<a href="ftp://ftp.info-zip.org/pub/infozip/src">ftp://ftp.info-zip.org/pub/infozip/src</a>
splashutils	1.5.4.4	<a href="http://dev.gentoo.org/~spock/projects/gensplash/archive">http://dev.gentoo.org/~spock/projects/gensplash/archive</a>
json	1.8.4-cs2	<a href="http://json.org/">http://json.org/</a>
libresample	0.1.3	<a href="ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample">ftp://ftp.ubuntu.com/ubuntu/pool/universe/libr/libresample</a>

<b>PACKAGE</b>	<b>VERSION</b>	<b>SOURCE</b>
alsa-plugins	1.1.1	<a href="ftp://ftp.alsa-project.org/pub/plugins">ftp://ftp.alsa-project.org/pub/plugins</a>
arphic-uming-fonts	20080216	<a href="http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming">http://archive.ubuntu.com/ubuntu/pool/main/t/ttf-arphic-uming</a>
dejavu-fonts	2,34	<a href="http://downloads.sourceforge.net/project/dejavu/dejavu/2.34">http://downloads.sourceforge.net/project/dejavu/dejavu/2.34</a>
flexnet	1.0.5	<a href="https://www.flexerasoftware.com/monetize/products/flexnet-licensing.html">https://www.flexerasoftware.com/monetize/products/flexnet-licensing.html</a>
sazanami-fonts	20040629	<a href="http://sourceforge.jp/projects/efont/downloads/10087">http://sourceforge.jp/projects/efont/downloads/10087</a>
unfonts	1	<a href="http://kldp.net/frs/download.php/1425">http://kldp.net/frs/download.php/1425</a>
linux-firmware	65b1c68c63-f974d72610d-b38dfa-e49861117cae2	<a href="http://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git">http://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git</a>
libsrp	2.1.2	<a href="https://github.com/secure-remote-password/stanford-srp/tree/master/libsrp">https://github.com/secure-remote-password/stanford-srp/tree/master/libsrp</a>
libfdk-aac	0.1.4	<a href="https://github.com/mstorsjo/fdk-aac">https://github.com/mstorsjo/fdk-aac</a>
libalac	4	<a href="https://github.com/macOSforge/alac">https://github.com/macOSforge/alac</a>
mDNSResponder	878.30.4	<a href="https://opensource.apple.com/source/mDNSResponder/">https://opensource.apple.com/source/mDNSResponder/</a>
AOP Alliance Class library	1	<a href="https://sourceforge.net/projects/aopalliance/files/aopalliance/1.0/">https://sourceforge.net/projects/aopalliance/files/aopalliance/1.0/</a>
Apache Log4j	1.2.17	<a href="https://archive.apache.org/dist/logging/log4j/1.2.17/">https://archive.apache.org/dist/logging/log4j/1.2.17/</a>
ASM Bytecode Manipulation	5.0.1	<a href="https://gitlab.ow2.org/asm/asm/tags/ASM_5_0_1">https://gitlab.ow2.org/asm/asm/tags/ASM_5_0_1</a>
AspectJ Runtime	1.8.10	<a href="http://www.eclipse.org/downloads/download.php?file=/tools/aspectj/aspectj-1.8.10-src.jar">http://www.eclipse.org/downloads/download.php?file=/tools/aspectj/aspectj-1.8.10-src.jar</a>
Boost	1,59	<a href="http://sourceforge.net/projects/boost/files/boost/1.59.0/boost_1_59_0.tar.bz2">http://sourceforge.net/projects/boost/files/boost/1.59.0/boost_1_59_0.tar.bz2</a>
Commons beanutils	1.8.0	<a href="https://archive.apache.org/dist/commons/beanutils/source/commons-beanutils-1.8.0-src.tar.gz">https://archive.apache.org/dist/commons/beanutils/source/commons-beanutils-1.8.0-src.tar.gz</a>
Commons beanutils	1.9.3	<a href="https://archive.apache.org/dist/commons/beanutils/source/commons-beanutils-1.9.3-src.tar.gz">https://archive.apache.org/dist/commons/beanutils/source/commons-beanutils-1.9.3-src.tar.gz</a>
Commons codec	1.9.0	<a href="https://archive.apache.org/dist/commons/codec/source/commons-codec-1.9-src.tar.gz">https://archive.apache.org/dist/commons/codec/source/commons-codec-1.9-src.tar.gz</a>
Commons codec	1,1	<a href="https://archive.apache.org/dist/commons/codec/source/commons-codec-1.10-src.tar.gz">https://archive.apache.org/dist/commons/codec/source/commons-codec-1.10-src.tar.gz</a>
Commons collections	3,1	<a href="https://archive.apache.org/dist/commons/collections/source/commons-collections-3.1-src.tar.gz">https://archive.apache.org/dist/commons/collections/source/commons-collections-3.1-src.tar.gz</a>
Commons collections	3.2.2	<a href="https://archive.apache.org/dist/commons/collections/source/commons-collections-3.2.2-src.tar.gz">https://archive.apache.org/dist/commons/collections/source/commons-collections-3.2.2-src.tar.gz</a>
Commons digester	2,1	<a href="https://archive.apache.org/dist/commons/digester/source/commons-digester-2.1-src.tar.gz">https://archive.apache.org/dist/commons/digester/source/commons-digester-2.1-src.tar.gz</a>



<b>PACKAGE</b>	<b>VERSION</b>	<b>SOURCE</b>
Commons fileupload	1.3.2	<a href="https://archive.apache.org/dist/commons/fileupload/source/commons-fileupload-1.3.2-src.tar.gz">https://archive.apache.org/dist/commons/fileupload/source/commons-fileupload-1.3.2-src.tar.gz</a>
Commons httpclient	3,1	<a href="https://www.apache.org/dist/httpcomponents/commons-httpclient/source/commons-httpclient-3.1-src.tar.gz">https://www.apache.org/dist/httpcomponents/commons-httpclient/source/commons-httpclient-3.1-src.tar.gz</a>
Commons httpclient	4.5.3	<a href="http://apache.belnet.be/httpcomponents/httpclient/source/httpcomponents-client-4.5.3-src.tar.gz">http://apache.belnet.be/httpcomponents/httpclient/source/httpcomponents-client-4.5.3-src.tar.gz</a>
Commons IO	2,2	<a href="https://archive.apache.org/dist/commons/io/source/commons-io-2.2-src.tar.gz">https://archive.apache.org/dist/commons/io/source/commons-io-2.2-src.tar.gz</a>
Commons IO	2,5	<a href="https://archive.apache.org/dist/commons/io/source/commons-io-2.5-src.tar.gz">https://archive.apache.org/dist/commons/io/source/commons-io-2.5-src.tar.gz</a>
Commons lang	3,1	<a href="https://archive.apache.org/dist/commons/lang/source/commons-lang3-3.1-src.tar.gz">https://archive.apache.org/dist/commons/lang/source/commons-lang3-3.1-src.tar.gz</a>
Commons lang	3,6	<a href="https://archive.apache.org/dist/commons/lang/source/commons-lang3-3.6-src.tar.gz">https://archive.apache.org/dist/commons/lang/source/commons-lang3-3.6-src.tar.gz</a>
Commons logging	1,2	<a href="https://archive.apache.org/dist/commons/logging/source/commons-logging-1.2-src.tar.gz">https://archive.apache.org/dist/commons/logging/source/commons-logging-1.2-src.tar.gz</a>
Commons schema	1.4.5	<a href="https://github.com/apache/webservices-commons-xmlschema/archive/XmlSchema-1.4.5.tar.gz">https://github.com/apache/webservices-commons-xmlschema/archive/XmlSchema-1.4.5.tar.gz</a>
Commons text	1,1	<a href="https://archive.apache.org/dist/commons/text/source/commons-text-1.1-src.tar.gz">https://archive.apache.org/dist/commons/text/source/commons-text-1.1-src.tar.gz</a>
Commons Validator	1,6	<a href="https://archive.apache.org/dist/commons/validator/source/commons-validator-1.6-src.tar.gz">https://archive.apache.org/dist/commons/validator/source/commons-validator-1.6-src.tar.gz</a>
Eclipselink	2.6.4	<a href="http://mirror.switch.ch/eclipse/rt/eclipselink/releases/2.6.4/eclipselink-src-2.6.4.v20160829-44060b6.zip">http://mirror.switch.ch/eclipse/rt/eclipselink/releases/2.6.4/eclipselink-src-2.6.4.v20160829-44060b6.zip</a>
Freemarker	2.3.22	<a href="https://sourceforge.net/projects/freemarker/files/freemarker/2.3.22/">https://sourceforge.net/projects/freemarker/files/freemarker/2.3.22/</a>
Glassfish Components	2.2.4	<a href="https://mvnrepository.com/artifact/org.glassfish.web/javax.el/2.2.4">https://mvnrepository.com/artifact/org.glassfish.web/javax.el/2.2.4</a>
Google Guava Library	23	<a href="https://github.com/google/guava/releases/tag/v23.0">https://github.com/google/guava/releases/tag/v23.0</a>
Graylog Extended Log Format for Java	1.1.15	<a href="https://github.com/t0xa/gelfj/archive/v1.1.15.tar.gz">https://github.com/t0xa/gelfj/archive/v1.1.15.tar.gz</a>
H2 embedded database	1.4.196	<a href="http://repo2.maven.org/maven2/com/h2database/h2/1.4.196/h2-1.4.196-sources.jar">http://repo2.maven.org/maven2/com/h2database/h2/1.4.196/h2-1.4.196-sources.jar</a>
Hibernate Bean Validator	5.3.5.Final	<a href="https://github.com/hibernate/hibernate-validator/releases/tag/5.3.5.Final">https://github.com/hibernate/hibernate-validator/releases/tag/5.3.5.Final</a>
HttpComponents	4.5.3	<a href="https://github.com/apache/httpcomponents-client/archive/4.5.3.tar.gz">https://github.com/apache/httpcomponents-client/archive/4.5.3.tar.gz</a>
Jackson JSON processor	2.2.3	<a href="http://central.maven.org/maven2/com/fasterxml/jackson/core/jackson-core/2.2.3/jackson-core-2.2.3-sources.jar">http://central.maven.org/maven2/com/fasterxml/jackson/core/jackson-core/2.2.3/jackson-core-2.2.3-sources.jar</a>
Jackson JSON Processor	2.8.9	<a href="http://central.maven.org/maven2/com/fasterxml/jackson/core/jackson-core/2.8.9/jackson-core-2.8.9-sources.jar">http://central.maven.org/maven2/com/fasterxml/jackson/core/jackson-core/2.8.9/jackson-core-2.8.9-sources.jar</a>

<b>PACKAGE</b>	<b>VERSION</b>	<b>SOURCE</b>
Jakarta Taglib Standards	1.1.0	<a href="https://archive.apache.org/dist/jakarta/taglibs/standard/source/jakarta-taglibs-standard-1.1.0-src.tar.gz">https://archive.apache.org/dist/jakarta/taglibs/standard/source/jakarta-taglibs-standard-1.1.0-src.tar.gz</a>
JavaBeans Activation Framework	1,1	<a href="https://mvnrepository.com/artifact/javax.activation/activation/1.1">https://mvnrepository.com/artifact/javax.activation/activation/1.1</a>
JAXB XML Processor	0.6.4	<a href="https://mvnrepository.com/artifact/org.jvnet.jaxb2_commons/jaxb2-basics-runtime/0.6.4">https://mvnrepository.com/artifact/org.jvnet.jaxb2_commons/jaxb2-basics-runtime/0.6.4</a>
Jcabi Manifest	1,1	<a href="https://github.com/jcabi/jcabi-manifests/releases/tag/1.1">https://github.com/jcabi/jcabi-manifests/releases/tag/1.1</a>
Jetty embedded server	9.3.14	<a href="https://github.com/eclipse/jetty.project/releases/tag/jetty-9.3.14.v20161028">https://github.com/eclipse/jetty.project/releases/tag/jetty-9.3.14.v20161028</a>
JQuery	1.4.4	<a href="https://github.com/jquery/jquery/releases/tag/1.4.4">https://github.com/jquery/jquery/releases/tag/1.4.4</a>
JQuery-ui	1.8.9	<a href="https://github.com/jquery/jquery-ui/releases/tag/1.8.9">https://github.com/jquery/jquery-ui/releases/tag/1.8.9</a>
JSON in Java (org.json)	20131018	<a href="http://central.maven.org/maven2/org/json/json/20131018/json-20131018-sources.jar">http://central.maven.org/maven2/org/json/json/20131018/json-20131018-sources.jar</a>
JSON processor used by GELFJ	1.1.1	<a href="https://github.com/t0xa/gelfj/archive/v1.1.1.tar.gz">https://github.com/t0xa/gelfj/archive/v1.1.1.tar.gz</a>
JSON Web Token Library	0.7.0	<a href="http://central.maven.org/maven2/io/jsonwebtoken/jjwt/0.7.0/jjwt-0.7.0-sources.jar">http://central.maven.org/maven2/io/jsonwebtoken/jjwt/0.7.0/jjwt-0.7.0-sources.jar</a>
KopiLua Scripting Engine	5.1.5	<a href="https://github.com/NLua/KopiLua">https://github.com/NLua/KopiLua</a>
libCurl	7.48.0	<a href="https://github.com/curl/curl/releases/tag/curl-7_48_0">https://github.com/curl/curl/releases/tag/curl-7_48_0</a>
Liquibase database migration	3.5.3	<a href="https://github.com/liquibase/liquibase/releases/tag/liquibase-parent-3.5.3">https://github.com/liquibase/liquibase/releases/tag/liquibase-parent-3.5.3</a>
Log4j	1.2.16	<a href="https://archive.apache.org/dist/logging/log4j/1.2.16/apache-log4j-1.2.16.tar.gz">https://archive.apache.org/dist/logging/log4j/1.2.16/apache-log4j-1.2.16.tar.gz</a>
Lua Scripting Engine	5.2.2	<a href="https://www.lua.org/ftp/lua-5.2.2.tar.gz">https://www.lua.org/ftp/lua-5.2.2.tar.gz</a>
Luaj	3	<a href="https://sourceforge.net/projects/luaj/files/luaj-3.0/3.0/">https://sourceforge.net/projects/luaj/files/luaj-3.0/3.0/</a>
Mapstruct	1.0.0	<a href="https://github.com/mapstruct/mapstruct/releases/tag/1.0.0.Final">https://github.com/mapstruct/mapstruct/releases/tag/1.0.0.Final</a>
MPI	1.8.6	<a href="https://download.open-mpi.org/release/open-mpi/v1.8/openmpi-1.8.6.tar.bz2">https://download.open-mpi.org/release/open-mpi/v1.8/openmpi-1.8.6.tar.bz2</a>
MVEL	2.2.8.Final	<a href="http://central.maven.org/maven2/org/mvel/mvel/2.2.8.Final/mvel-2.2.8.Final-sources.jar">http://central.maven.org/maven2/org/mvel/mvel/2.2.8.Final/mvel-2.2.8.Final-sources.jar</a>
nanohttpd	?	<a href="https://github.com/NanoHttpd/nanohttpd">https://github.com/NanoHttpd/nanohttpd</a>
Object-Graph Navigation Language (OGNL)	3.0.19	<a href="http://central.maven.org/maven2/ognl/ognl/3.0.19/ognl-3.0.19-sources.jar">http://central.maven.org/maven2/ognl/ognl/3.0.19/ognl-3.0.19-sources.jar</a>
OpenSSL	1.0.2l	<a href="http://www.openssl.org/source/openssl-1.0.2l.tar.gz">http://www.openssl.org/source/openssl-1.0.2l.tar.gz</a>

<b>PACKAGE</b>	<b>VERSION</b>	<b>SOURCE</b>
Passay	1.1.0	<a href="https://github.com/vt-middleware/passay/releases/tag/v1.1.0">https://github.com/vt-middleware/passay/releases/tag/v1.1.0</a>
SHA2 C-library	?	<a href="https://github.com/ouah/sha2">https://github.com/ouah/sha2</a>
Simple Logging Façade for Java	1.7.25	<a href="https://github.com/qos-ch/slf4j/releases/tag/v_1.7.25">https://github.com/qos-ch/slf4j/releases/tag/v_1.7.25</a>
Spring Boot	1.5.6	<a href="https://repo1.maven.org/maven2/org/springframework/boot/spring-boot/1.5.6.RELEASE/spring-boot-1.5.6.RELEASE-sources.jar">https://repo1.maven.org/maven2/org/springframework/boot/spring-boot/1.5.6.RELEASE/spring-boot-1.5.6.RELEASE-sources.jar</a>
Spring framework	4.2.4	<a href="https://github.com/spring-projects/spring-framework/releases/tag/v4.2.4.RELEASE">https://github.com/spring-projects/spring-framework/releases/tag/v4.2.4.RELEASE</a>
Springfox	2.5.0	<a href="https://github.com/springfox/springfox/releases/tag/2.5.0">https://github.com/springfox/springfox/releases/tag/2.5.0</a>
StarkSoft	1.0.130	<a href="https://www.nuget.org/packages/starksoft.aspen/1.0.1">https://www.nuget.org/packages/starksoft.aspen/1.0.1</a>
Struts	2.3.34	<a href="https://archive.apache.org/dist/struts/2.3.34/struts-2.3.34-src.zip">https://archive.apache.org/dist/struts/2.3.34/struts-2.3.34-src.zip</a>
Swagger	1.5.9	<a href="https://github.com/swagger-api/swagger-core/releases/tag/v1.5.9">https://github.com/swagger-api/swagger-core/releases/tag/v1.5.9</a>
Tiles framework	2.0.6	<a href="https://archive.apache.org/dist/tiles/v2.0.6/tiles-2.0.6-src.tar.gz">https://archive.apache.org/dist/tiles/v2.0.6/tiles-2.0.6-src.tar.gz</a>
TinyXML	2.5.3	<a href="https://sourceforge.net/projects/tinyxml/files/tinyxml/2.5.3/">https://sourceforge.net/projects/tinyxml/files/tinyxml/2.5.3/</a>
Tomcat JDBC Connection Pool	8.5.6	<a href="http://central.maven.org/maven2/org/apache/tomcat/tomcat-jdbc/8.5.6/tomcat-jdbc-8.5.6-sources.jar">http://central.maven.org/maven2/org/apache/tomcat/tomcat-jdbc/8.5.6/tomcat-jdbc-8.5.6-sources.jar</a>
T-Rex	1,3	<a href="https://sourceforge.net/projects/tiny-rex/files/t-rex/trex%201.3/">https://sourceforge.net/projects/tiny-rex/files/t-rex/trex%201.3/</a>
YAML	1,17	<a href="https://mvnrepository.com/artifact/org.yaml/snakeyaml/1.17">https://mvnrepository.com/artifact/org.yaml/snakeyaml/1.17</a>
wpa_suppl	a5ffe45908-cae43925bb5c-b13d98251-c802b4717	<a href="http://w1.fi/hostap.git">http://w1.fi/hostap.git</a>
wpa_passphrase	a5ffe45908-cae43925bb5c-b13d98251-c802b4717	<a href="http://w1.fi/hostap.git">http://w1.fi/hostap.git</a>
wpa_cli	a5ffe45908-cae43925bb5c-b13d98251-c802b4717	<a href="http://w1.fi/hostap.git">http://w1.fi/hostap.git</a>
hostapd	a5ffe45908-cae43925bb5c-b13d98251-c802b4717	<a href="http://w1.fi/hostap.git">http://w1.fi/hostap.git</a>
hostapd_cli	a5ffe45908-cae43925bb5c-b13d98251-c802b4717	<a href="http://w1.fi/hostap.git">http://w1.fi/hostap.git</a>
qca6174a-30	4.5.25.38	<a href="https://source.codeaurora.org/external/wlan/qcaclid-2.0/">https://source.codeaurora.org/external/wlan/qcaclid-2.0/</a>
gsl	master	<a href="https://github.com/microsoft/GSL">https://github.com/microsoft/GSL</a>

PACKAGE	VERSION	SOURCE
nlohmann::json	3.7.3	<a href="https://github.com/nlohmann/json">https://github.com/nlohmann/json</a>
mongo-java-driver	3.4.1	<a href="https://mongodb.github.io/mongo-java-driver/3.4/">https://mongodb.github.io/mongo-java-driver/3.4/</a>
org.mongodb.morphia	1.3.1	<a href="https://mongodb.github.io/morphia/1.3/">https://mongodb.github.io/morphia/1.3/</a>
spark-core	2.5.3	<a href="https://github.com/perwendel/spark/releases/tag/2.5.3">https://github.com/perwendel/spark/releases/tag/2.5.3</a>
gson	2.8.0	<a href="https://github.com/google/gson">https://github.com/google/gson</a>
slf4j-api	1.7.22	<a href="https://www.slf4j.org">https://www.slf4j.org</a>
AspectJ Weaver & Runtime	1.8.7	<a href="https://www.eclipse.org/aspectj/">https://www.eclipse.org/aspectj/</a>
oval	1,87	<a href="http://oval.sourceforge.net/">http://oval.sourceforge.net/</a>
Commons Lang	3,5	<a href="https://commons.apache.org/proper/commons-lang/">https://commons.apache.org/proper/commons-lang/</a>
Apache Commons Logging	1,2	<a href="https://commons.apache.org/proper/commons-logging/">https://commons.apache.org/proper/commons-logging/</a>
swagger-annotations	1.5.4	<a href="https://github.com/swagger-api/swagger-core/wiki/Annotations">https://github.com/swagger-api/swagger-core/wiki/Annotations</a>
swagger-models	1.5.4	<a href="https://github.com/swagger-api/swagger-core/wiki/overriding-models">https://github.com/swagger-api/swagger-core/wiki/overriding-models</a>
swagger-jaxrs	1.5.4	<a href="https://github.com/swagger-api/swagger-core/wiki/Swagger-Core-JAX-RS-Project-Setup-1.5.X">https://github.com/swagger-api/swagger-core/wiki/Swagger-Core-JAX-RS-Project-Setup-1.5.X</a>
javax.ws.rs-api	2.0.1	<a href="https://jersey.github.io/download.html">https://jersey.github.io/download.html</a>
Commons IO	2,5	<a href="https://commons.apache.org/proper/commons-io/">https://commons.apache.org/proper/commons-io/</a>
spring-web	4.3.11	<a href="https://projects.spring.io/spring-framework/">https://projects.spring.io/spring-framework/</a>
jackson-core	2.9.1	<a href="https://github.com/FasterXML/jackson-core">https://github.com/FasterXML/jackson-core</a>
jose4j	0.6.0	<a href="https://bitbucket.org/b_c/jose4j/wiki/Home">https://bitbucket.org/b_c/jose4j/wiki/Home</a>
uboot	f44ca27357563-e9ed43f1ff76d3-bd8dd14f4747e	<a href="https://github.com/rockchip-linux/u-boot">https://github.com/rockchip-linux/u-boot</a>
linux	805e544f539-b96d-e96388960173-bb673dab5a9dd	<a href="https://github.com/rockchip-linux/kernel">https://github.com/rockchip-linux/kernel</a>
avb-vbmeta	21e95266704-e572ced1c633-bbc4aea9f42a-fa0a5	<a href="https://android.googlesource.com/platform/external/avb/+21e95266704e572ced1c633bbc4aea9f42afa0a5/avbtool">https://android.googlesource.com/platform/external/avb/+21e95266704e572ced1c633bbc4aea9f42afa0a5/avbtool</a>
bootcontrol	b18c9afdb7-d02e1249cee5-cb430dc9f15a3-ccc27	<a href="https://github.com/rockchip-linux/avb/tree/master/boot_control">https://github.com/rockchip-linux/avb/tree/master/boot_control</a>

PACKAGE	VERSION	SOURCE
libavb	7617e69a524a-cc1a50a8a98-b257d1374ea6fe4a4	<a href="https://github.com/rockchip-linux/avb/tree/master/libavb">https://github.com/rockchip-linux/avb/tree/master/libavb</a>
libavb-ab	7617e69a524a-cc1a50a8a98-b257d1374ea6fe4a4	<a href="https://github.com/rockchip-linux/avb/tree/master/libavb_ab">https://github.com/rockchip-linux/avb/tree/master/libavb_ab</a>
libavb-user	7617e69a524a-cc1a50a8a98-b257d1374ea6fe4a4	<a href="https://github.com/rockchip-linux/avb/tree/master/libavb_user">https://github.com/rockchip-linux/avb/tree/master/libavb_user</a>
rockchip-linux-bin	d6676eb02-c8a1b4966df7-d8c4bb203e-a25fc98b2	<a href="https://github.com/rockchip-linux/bin">https://github.com/rockchip-linux/bin</a>
rockchip-tee-user	1e3bdb582-c52707d71e5c-be29-ca1064d7c04-b696	<a href="https://github.com/rockchip-linux/rk_tee_user">https://github.com/rockchip-linux/rk_tee_user</a>
rockchip-binary	04e55089bb4b-ba-de7c50d9b54-b5a1c-fa70771cd6	<a href="https://github.com/rockchip-linux/rkbin">https://github.com/rockchip-linux/rkbin</a>
rockchip-gstreamer1	59c3bdd06-a22844957fe20-f47c998bb8255-bedd2	<a href="https://github.com/rockchip-linux/gstreamer-rockchip">https://github.com/rockchip-linux/gstreamer-rockchip</a>
rockchip-mpp	862b0d89363-e18e45e5db5c-c6c316a173-c5ac2e7	<a href="https://github.com/rockchip-linux/mpp">https://github.com/rockchip-linux/mpp</a>
rockchip-libmali	f226-e982386287a4-df669e2832d9d-dd613d4153b	<a href="https://github.com/rockchip-linux/libmali">https://github.com/rockchip-linux/libmali</a>
rockchip-linux-rga	72e7764a9f-e358e6a-d50eb1b21176-cc95802c7fb	<a href="https://github.com/rockchip-linux/linux-rga">https://github.com/rockchip-linux/linux-rga</a>
NXP SDK	2.5.0	<a href="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">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</a>
unlz4	-	<a href="https://github.com/lz4/lz4/blob/dev/lib/lz4.h">https://github.com/lz4/lz4/blob/dev/lib/lz4.h</a>
ring-buff	-	<a href="https://code.google.com/archive/p/ring-buff/">https://code.google.com/archive/p/ring-buff/</a>
wpa_supplicant	2.6	<a href="http://w1.fi/wpa_supplicant/">http://w1.fi/wpa_supplicant/</a>

## 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'Industrie 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](http://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

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## 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 Button. 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.

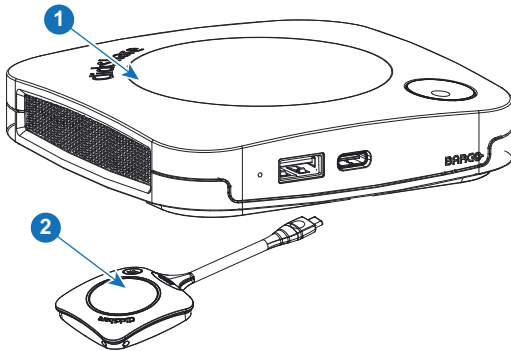


Image 2-1

- |   |                                  |
|---|----------------------------------|
| 1 | Base unit                        |
| 2 | Conferencing Button <sup>2</sup> |

### Accessories included

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

Products	Contains	Accessories included
R9861512xx <sup>3</sup>	<ul style="list-style-type: none"> <li>R9861511</li> <li>1x R9861600D01C<sup>4</sup></li> </ul>	<ul style="list-style-type: none"> <li>DC adapter with AC clips type A, C, G, I<sup>5</sup></li> <li>Wall mount system</li> <li>Printed safety manual</li> </ul>
R9861600D01C <sup>4</sup>	1x R9861600D01C <sup>4</sup>	

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: For US, R9861600D01CUS  
 5: 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.

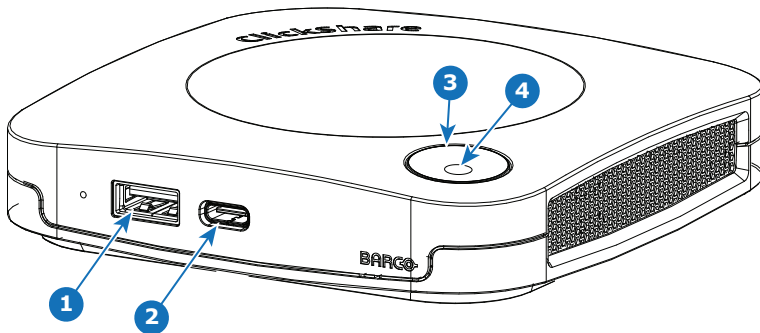


Image 2-2

- |   |                           |
|---|---------------------------|
| 1 | USB Type-A port (USB 2.0) |
| 2 | USB Type-C port (USB 2.0) |
| 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 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	<ul style="list-style-type: none"> <li>receiving content from the Buttons and streaming towards the display.</li> <li>during the first phase of the Base Unit boot process.</li> </ul>
blinking white	<ul style="list-style-type: none"> <li>system is starting up (during the second phase)</li> <li>Button pairing is in progress</li> <li>software update of the Base Unit</li> </ul>
breathing white	<ul style="list-style-type: none"> <li>ECO standby mode</li> </ul>
static white	<ul style="list-style-type: none"> <li>awake and ready (i.e. showing the welcome message on the display)</li> <li>pairing and software update of the Button is done, you can now unplug the Button from the Base Unit..</li> </ul>

LEDs behavior	Explanation
red blinking	<ul style="list-style-type: none"> <li>an error occurred</li> </ul>
dark	<ul style="list-style-type: none"> <li>deep standby/off</li> </ul>

## 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

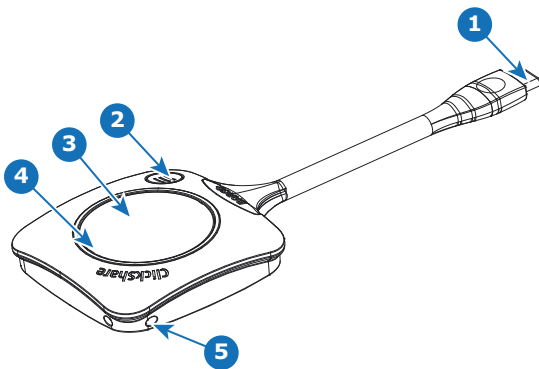


Image 2-3

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	<ul style="list-style-type: none"> <li>• Button is plugged in the laptop and initializing.</li> <li>• Button is updating/pairing</li> </ul>
green ring	<ul style="list-style-type: none"> <li>• pairing and software update is done. You can now unplug the Button from the Base Unit.</li> </ul>
spinning white circle	<ul style="list-style-type: none"> <li>• Button is busy (no end time known).</li> <li>• ClickShare App is setting up the connection with the Base Unit.</li> </ul>
white blinking	<ul style="list-style-type: none"> <li>• the Button is waiting for the user to start the ClickShare application.</li> </ul>
static white	<ul style="list-style-type: none"> <li>• ClickShare is ready to start sharing your screen.</li> </ul>
static red	<ul style="list-style-type: none"> <li>• sharing your screen with the display<sup>6</sup>.</li> </ul>
red blinking	<ul style="list-style-type: none"> <li>• an error occurred.</li> </ul>
off (no light)	<ul style="list-style-type: none"> <li>• the Button is not or not properly inserted into the USB port.</li> <li>• the Button might be defective.</li> <li>• the USB port or computer might be defective.</li> </ul>

## 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	Logo
ClickShare App	iOS Android Windows	

Apps can be downloaded from [www.clickshare.app](http://www.clickshare.app) .

<sup>6</sup>: While sharing content, the laptop will not go to standby. Once sharing is stopped, the laptop will again be capable of going to standby.



# Getting started

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## 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.

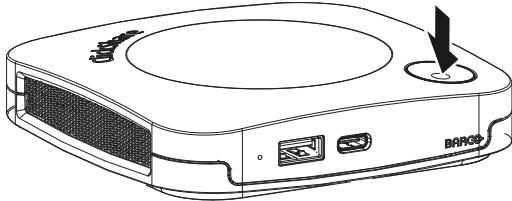


Image 3-1

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.

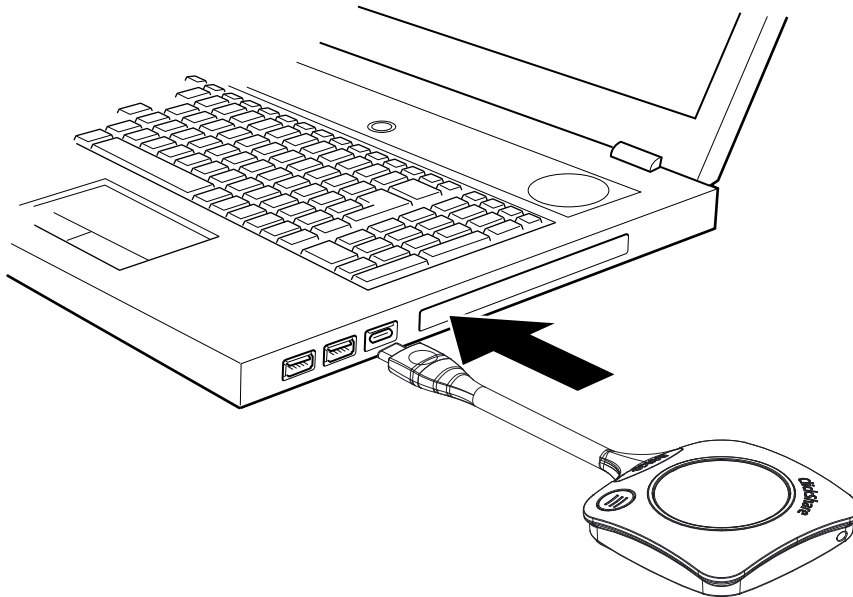


Image 3-2

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 go to step 3.

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>

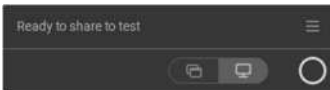


Image 3-3

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.

Your screen or a typical application can be shared.

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).

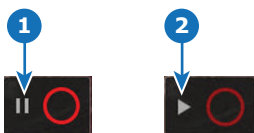


Image 3-4

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

This quick access button opens a selection window to make the choice what will be displayed on the screen.



Image 3-5

The choices are:

- Share an application
- View the room display

## 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](http://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.



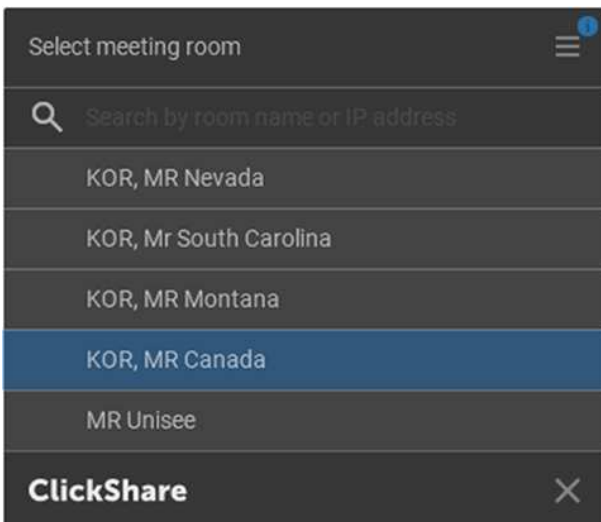


Image 3-6: Meeting room list

- 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.

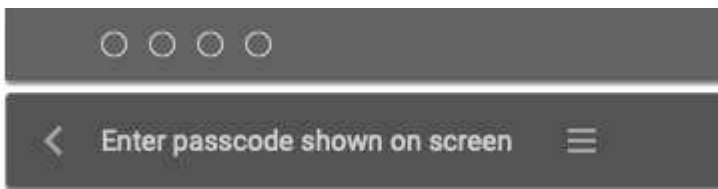


Image 3-7: Enter passcode

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

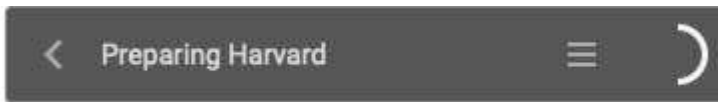


Image 3-8: Prepare connection

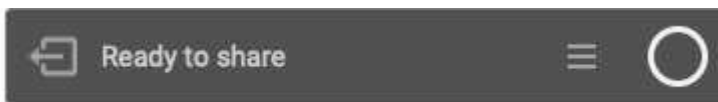


Image 3-9: Ready to share

- 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.

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



Image 3-10

- Disconnect from the meeting room by clicking the “leave room” icon



Image 3-11: 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.

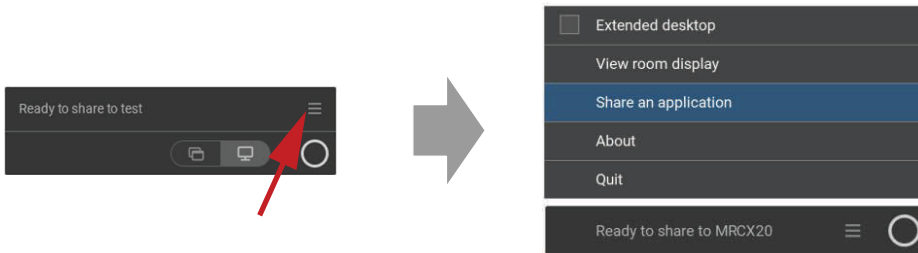


Image 3-12

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 3-13

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



Image 3-14

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



Image 3-15

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.

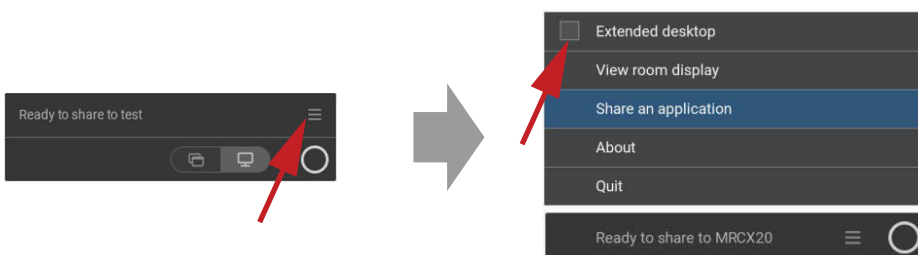


Image 3-16

The content menu opens.

2. Check the check box before Extended desktop.

## 3.6 Share an application

### About sharing an application

When *Share an application* is selected, you will be presented with an overview of open applications on your computer. Once you select an application to share, only this application will be shared on the big screen

## How to select via the content menu

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

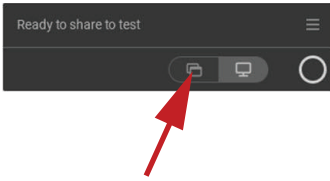


Image 3-17

The last 6 open applications on your computer are displayed.

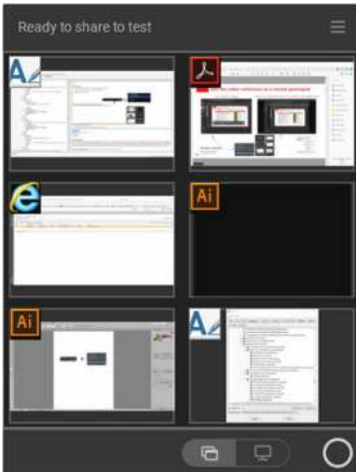


Image 3-18

2. Hover your mouse over the application to share. That window becomes blue.
3. Click on that application to select.  
Only the selected application is shared on the meeting room display.

## Via the Quick access button

1. Push the quick access button.



Image 3-19

The selection menu is displayed.

2. To display an application, select *Share an Application*.  
The last 6 open applications on your computer are displayed.

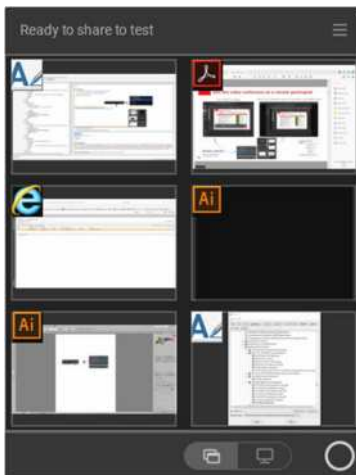


Image 3-20

3. Hover your mouse over the application to share. That window becomes blue.
4. Click on that application to select.  
Only the selected application 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.

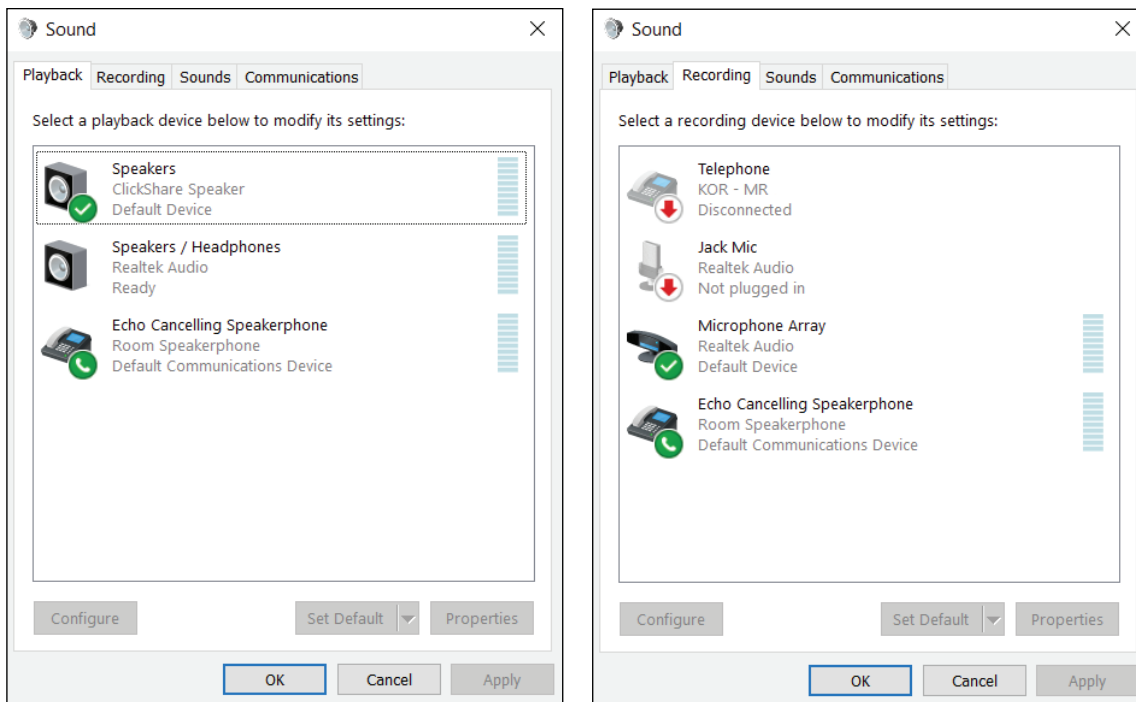


Image 3-21: Audio setup

## 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.

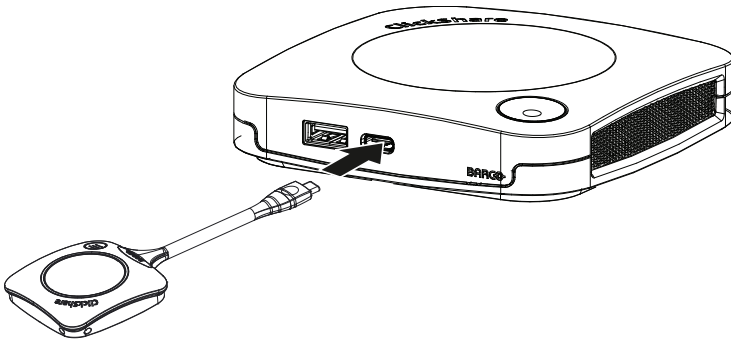


Image 3-22

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. Plug in a button to conference.



Image 3-23

## 3.9 Room Dock

### About

Room Dock allows to create a wireless bridge for echo-cancelling speakerphone 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.

## 3.10 Airplay

### About Airplay


Airplay is a protocol that allows wireless streaming between devices of audio, video, device screens and photos. The ClickShare Base Unit can be configured to receive the airplay streaming

### Why Airplay

You want to show multiple people your photos and videos or your PowerPoint and Keynote presentation on a big screen? Connect your device to the ClickShare Base Unit which can be configured to receive the Airplay streaming.

### How to use Airplay

1. Make sure your device is connected with the ClickShare WiFi in the meeting room.

2. Open the control panel of your device and swipe up from the bottom left of the screen or swipe down from the top right of the screen, depending of your device.
3. Click on  Synchronise display and select the ClickShare device in the meeting room.

For more information about using Airplay with a typical device, consult the user manual of that device.

## 3.11 Chromecast

### About Chromecast

Chromecast is a protocol that allows wireless streaming between devices of audio, video, device screens and photos. The ClickShare Base Unit can be configured to receive the Chromecast streaming.

### Why Chromecast

You want to show multiple people your photos and videos or your PowerPoint and Keynote presentation on a big screen? Connect your device to the ClickShare Base Unit which can be configured to receive the Chromecast streaming.

### How to use Chromecast

1. Make sure your device is connected with the ClickShare WiFi in the meeting room.
2. Click on the cast-icon to display the content of you device on the meeting room screen.

For more information about using Chromecast with a typical device, consult the user manual of that device.

## 3.12 Miracast

### About 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 creates its own direct wireless signal between your mobile device and the wireless display receiver (ClickShare Base Unit).

### How to use Miracast

1. Miracast should be enable on the ClickShare Base Unit.
2. Your mobile device needs to be Miracast enabled. Devices like Samsung smartphones or other Android phones, as well as devices that use Windows 8 or 10, typically have the technology built-in.
3. In the settings of your mobile device, open 'wireless display' (name can be different depending on the device type and model). See the device's user guide.
4. Select the ClickShare Base Unit in the meeting room.



# 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.
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.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
	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.	<ul style="list-style-type: none"> <li>• Reconnect to the USB port.</li> <li>• Try another USB port.</li> <li>• Reboot your laptop.</li> </ul>
	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.	<ul style="list-style-type: none"> <li>• Disable overlays or hardware acceleration in the GPU.</li> <li>• Disable AeroGlass in Windows 7</li> <li>• Capture mode</li> </ul>

### Issues related to first time use and updating

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
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)

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
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.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
	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	<p>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:</p> <ul style="list-style-type: none"> <li>• Lower the resolution of the laptop screen</li> <li>• Use application sharing in the ClickShare app to only share a part of the screen.</li> <li>• Disable hardware acceleration for video.</li> <li>• Disable extended screen sharing</li> </ul>
Some programs of Windows are not shown on the display.	Use of overlays, 3D or hardware acceleration in the GPU.	<p>Disable overlays or hardware acceleration in the GPU. In Windows 7, disable AeroGlass.</p>
Unable to share from extended desktop.	Mac OS	<p>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</p>
	Extension pack not installed	<p>In order to have a second screen on your computer when using ClickShare, you will need to download and install the ClickShare extension pack. <a href="http://barco.com/clickshare/extensionpack">barco.com/clickshare/extensionpack</a></p>
	Old Extension pack installed	<p>ClickShare will only work with the latest version of the Extension Pack. Please uninstall the extension pack and install the latest version. <a href="http://barco.com/clickshare/extensionpack">barco.com/clickshare/extensionpack</a></p>

### 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.	Right click on the speaker icon and switch off the mute.
	Audio system of the meeting room is not switched on or not connected.	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.	Ask your administrator to configure audio of the Base Unit.
	Audio device is not available in my OS when I plug in the Button after changing audio settings on my Base Unit.	Re-pair the Buttons with the Base Unit.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
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.

# Environmental information

# 5

## 5.1 Disposal information

### Disposal Information

Waste Electrical and Electronic Equipment



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

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

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

### Disposal of batteries in the product



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

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

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

## 5.2 Rohs compliance

### Turkey RoHS compliance



Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygunur.

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

### 中国大陆 RoHS – Chinese Mainland RoHS

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

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

零件项目(名称) 有毒有害物质或元素

Component Name Hazardous Substances or Elements

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



Printed Circuit Assemblies 电(线)缆	x	0	x	0	0	0
Cables 底架	x	0	x	0	0	0
Chassis 电源供应器	x	0	x	0	0	0
Power Supply Unit 文件说明书	0	0	0	0	0	0
Paper Manuals						

本表格依据SJ/T 11364的规定编制

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

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

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

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

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

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

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



Image 5-1

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

設備名稱： 影音共享控制中心， 型號 (型式)： CSE-800

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

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr6+)	多溴聯苯 Poly- brominat- ed biphenyl (PBB)	多溴二苯醚 Poly- brominated diphenyl ethers (PBDE)
電路板 Printed Circuit Assemblies	—	0	—	0	0	0
電 (線) 纜	—	0	—	0	0	0

Cables						
機箱 Chassis	—	○	—	○	○	○
電源供應器 Power Supply Unit	—	○	○	○	○	○

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

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

備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。

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

備考3. “—”係指該項限用物質為排除項目。

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

## 5.3 Production address

### Factory

Barco N.V.  
12F, Citychamp Building, No. 12, Tai Yang Gong Zhong Lu, Chaoyang District, Beijing, P.R.C

### Made in information

The made in country is indicated on the product ID label on the product itself.

### Production date

The month and year of production is indicated on the product ID label on the product itself.

## 5.4 Importers contact information

### Contact

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





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[www.barco.com](http://www.barco.com)