

# TANDBERG Quick Set C20

Transform any meeting space into a video communications hub. The TANDBERG Quick Set C20 delivers the absolute quality of 1080p video in a simple-to-deploy, easy-to-manage and easy-to-use system. Whether you're just getting started with video communications or conducting a large scale deployment, the Quick Set C20 delivers the performance you would expect from a larger system — in a compact, feature-rich package.



Quick Set C20 includes the Codec C20, PrecisionHD 1080p 4x or 12x camera, Performance Mic 20, remote control and cables.

#### DESIGN FEATURES

- Transforms a flat panel display into a 1080p high-definition meeting space
- Simple intuitive connections make set up as easy as connecting a DVD player
- Quick Set C20 provides up to 1080p30 resolution with a 4x zoom camera
- Quick Set C20*Plus* provides up to 1080p30 and 720p60 resolution with a 12x zoom camera
- Standards-compliant 1080p solution — compatible with standards-based video without loss of features
- Sleek compact design

#### APPLICATION FEATURES

- Share multimedia and presentations at the touch of a button
- Basic API available over IP (Telnet or SSH)
- Dual display option available
- HD content sharing with 720p30 and WXGA

#### PERFORMANCE FEATURES

- Full duplex, high-quality audio with high-quality stereo sound
- Optimal definition up to 1080p30
- H.323/SIP up to 6 Mbps
- Takes advantage of the TANDBERG Total Solution for Management, HD MultiSite™ including Multiway, recording & streaming and firewall traversal services

GET THE MOST FROM YOUR INVESTMENT. WITH **PROFESSIONAL SERVICES**, TANDBERG EXPERTS SUPPORT TANDBERG QUICK SET C20 DEPLOYMENT AND TRAINING. VISIT [WWW.TANDBERG.COM](http://WWW.TANDBERG.COM)

#### SET DELIVERED COMPLETE WITH:

Codec C20, PrecisionHD 1080p 4x or 12x camera, Performance Mic 20, remote control, cables and power supply

#### BANDWIDTH

H.323/SIP up to 6 Mbps point-to-point

#### FIREWALL TRAVERSAL

TANDBERG Expressway™ Technology  
H.460.18, H.460.19 Firewall Traversal

#### VIDEO STANDARDS

H.261, H.263, H.263+, H.264

#### VIDEO FEATURES

Native 16:9 Widescreen  
Advanced Screen Layouts  
Intelligent Video Management  
Local Auto Layout

#### VIDEO INPUTS (2 INPUTS)

##### 1 X HDMI INPUTS, SUPPORTED FORMATS:

1920 x 1080@60 fps (1080p60)  
1920 x 1080@50 fps (1080p50)  
1920 x 1080@30 fps (1080p30)  
1920 x 1080@25 fps (1080p25)  
1280 x 720@60 fps (720p60)  
1280 x 720@50 fps (720p50)  
640 x 480@60 fps (480p60)  
800 x 600@60 fps (SVGA)  
1024 x 768@60, 70, 75, 85 fps (XGA)  
1280 x 1024@60, 75 fps (SXGA)

##### 1 X DVI-I INPUTS, SUPPORTED FORMATS:

Analog (VGA):  
1024 x 768@60, 70, 75, 85 fps (XGA)  
1280 x 1024@60, 75 fps (SXGA)  
Digital (DVI-D):  
1920 x 1080@60 fps (1080p60)  
1920 x 1080@50 fps (1080p50)  
1920 x 1080@30 fps (1080p30)  
1920 x 1080@25 fps (1080p25)  
1280 x 720@60 fps (720p60)  
1280 x 720@50 fps (720p50)  
640 x 480@60 fps (480p60)  
800 x 600@60 fps (SVGA)  
1024 x 768@60, 70, 75, 85 fps (XGA)  
1280 x 1024@60, 75 fps (SXGA)

#### VIDEO OUTPUTS (2 OUTPUTS)

##### 2 X HDMI OUTPUT, SUPPORTED FORMATS:

1920 x 1080@60fps (1080p60)  
1280 x 720@60fps (720p60)  
1366 x 768@60fps (WXGA)  
1280 x 768@60fps (WXGA)  
1024 x 768@60fps (XGA)  
1280 x 1024@60fps (SXGA)  
640 x 480@60fps (VGA)  
800 x 600@60fps (SVGA)

##### LIVE VIDEO RESOLUTIONS (ENCODE/DECODE)

176 x 144@30, 60fps (QCIF)  
352 x 288@30, 60fps (CIF)  
512 x 288@30, 60fps (w288p)  
576 x 448@30, 60fps (448p)  
768 x 448@30, 60fps (w448p)  
704 x 576@30, 60fps (4CIF)  
1024 x 576@30, 60fps (w576p)  
640 x 480@30, 60fps (VGA)  
800 x 600@30, 60fps (SVGA)  
1024 x 768@30fps (XGA)  
1280 x 768@30fps (WXGA)  
1280 x 720@30, 60'fps, HD720p60)  
1920 x 1080@30fps (HD1080p30)\*\*

#### AUDIO STANDARDS

G.711, G.722, G.722.1, 64 bit & 128 bit MPEG4 AAC-LD

#### AUDIO FEATURES

CD-Quality 20KHz Mono  
1 acoustic echo canceller  
Automatic Gain Control (AGC)  
Automatic Noise Reduction  
Active lip synchronization

#### AUDIO INPUTS (4 INPUTS)

2 x microphone, 4-pin MiniJack  
2 x RCA/Phono (mixed to mono)

#### AUDIO OUTPUTS (3 OUTPUTS)

2 x RCA/Phono (dual mono) 1 x HDMI, (digital main audio)

#### DUAL STREAM

H.239 (H.323) dual stream  
BFCP (SIP) dual stream  
Support resolutions up to WXGA (1280 x 768)

#### PROTOCOLS

H.323  
SIP

#### EMBEDDED ENCRYPTION

H.323/SIP point-to-point  
Standards-based: H.235 v2 & v3 and AES  
Automatic key generation and exchange  
Supported in Dual Stream

#### IP NETWORK FEATURES

DNS lookup for service configuration  
Differentiated Services (QoS)  
IP adaptive bandwidth management (including flow control)  
Auto gatekeeper discovery  
Dynamic playout and lip-sync buffering  
H.245 DTMF tones in H.323  
Date and Time support via NTP  
Packet Loss based Downsampling  
URI Dialing  
TCP/IP  
DHCP  
802.1x network authentication

#### SECURITY FEATURES

Management via HTTPS and SSH  
IP Administration Password  
Menu Administration Password  
Disable IP services  
Network Settings protection

#### NETWORK INTERFACES

1 x LAN/Ethernet (RJ-45) 10/100/1000 Mbit

#### OTHER INTERFACES

USB host for future usage

#### PRECISIONHD 1080P12X CAMERA

1/3" CMOS  
12 x zoom  
+15°/-25° tilt, +/- 90° pan  
43.5° vertical field of view  
72° horizontal field of view  
Focus distance 0.3m-infinity  
1920 x 1080 pixels progressive @ 60fps  
Other formats supported (configurable through Dip-switch):  
1920x1080@60fps (HDMI only) 1920x1080@50fps (HDMI only) 1920x1080@30fps 1920x1080@25fps 1280x720@60fps  
s1280x720@50fps 1280x720@30fps 1280x720@25fps  
Automatic or manual focus/brightness/white balance  
Far-end camera control  
Daisy-chain support (Visca protocol camera)  
Dual HDMI and HD-SDI output  
Upside-down mounting with automatic flipping of picture

#### PRECISIONHD 1080P 4X CAMERA

1/3" CMOS  
4 x zoom  
+15°/-25° tilt, +/- 90° pan  
43.5° vertical field of view  
72° horizontal field of view  
Focus distance 0.3m-infinity  
1920 x 1080 pixels progressive @ 30fps  
Other formats supported (configurable through Dip-switch):  
1920x1080@30fps 1920x1080@25fps 1280x720@30fps 1280x720@25fps  
Automatic or manual focus/brightness/white balance  
Far-end camera control  
Daisy-chain support (Visca protocol camera)  
Dual HDMI and HD-SDI output  
Upside-down mounting with automatic flipping of picture

#### SYSTEM MANAGEMENT

Support for the TANDBERG Management Suite  
Total management via embedded SNMP, Telnet, SSH, XML, SOAP  
Remote software upload: via web server, SCP, HTTP, HTTPS  
Remote control and on-screen menu system

#### DIRECTORY SERVICES

Support for Local directories (My Contacts)  
Corporate Directory  
Unlimited entries using Server directory supporting LDAP and H.350  
Unlimited number for Corporate directory (through TMS)  
200 number local directory  
Received Calls  
Placed Calls  
Missed Calls with Date and Time

#### POWER

Auto-sensing power supply  
100-240 VAC, 50/60 Hz  
75 watts max. for codec and main camera

#### OPERATING TEMPERATURE AND HUMIDITY

0° C to 35° C (32° F to 95° F) ambient temperature  
10% to 90% Relative Humidity (RH)

#### STORAGE AND TRANSPORT TEMPERATURE

-20° C to 60° C (-4° F to 140° F) at RH 10-90% (non-condensing)

#### APPROVALS

Directive 2006/95/EC (Low-Voltage Directive) — Standard EN 60950-1  
Directive 2004/108/EC (EMC Directive) — Standard EN 55022, Class B — Standard EN 55024 — Standard EN 61000-3-2/-3-3  
Approved according to UL 60950-1 and CAN/CSA-C22.2 No. 60950-1-07  
Complies with FCC15B Class A

#### DIMENSIONS CODEC C20

Length: 13.8"/35.0 cm  
Height: 1.2"/3.0 cm  
Depth: 5"/12.7 cm  
Weight: 4 lbs/1.8 kg

\*\* requires option

\*\*\* only one LAN/Ethernet interface supported in version 1

All specifications subject to change without notice, system specifics may vary.

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MTBF PRODUCT RELIABILITY/MTBF The predicted reliability

is expressed in the expected random Mean Time Between Failures (MTBF) for the electronic components based on the Power On Hours:

Power On Hours (POH) > 69 000 hours

Useful Life Cycle > 6 years

ISO 9001 certificate is available upon request

## TANDBERG

# Quick Set C20

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