

FACT SHEET

AVAYA ROOM SYSTEM C170

Overview

The Avaya Room System C170 is part of the new generation video conferencing room systems offer. The C170 incorporates H.265 High Efficiency Video Coding (HEVC), one of the industries most advanced video compression technologies. H.265 HEVC doubles the video compression efficiency of H.264 High Profile, enabling full HD 1080p and 4K video, delivering an exceptional experience with a total lower cost of ownership.

The Avaya Room System C170 delivers one of the best conferencing experiences available from a room system. Integrated PTZ camera offer up to 12x optical zoom to view details and include wide-angle capability for group participation. Optional embedded 9-way multi-party conferencing including the ability to engage with participants makes it easy to host meetings with remote participants.

Highlights

- **Standard protocol, integration and intercommunication**

  Support standard SIP, H.323 protocol, compatible with industry mainstream standard terminal and network side equipment.

- **Low bandwidth, high definition**

  Support the latest H.264 HP H.265 encoding standard, which can save about 50% bandwidth compared with the previous generation compression standard.

- **Multiple microphone access methods**

  Support digital microphone, USB microphone, analog microphone three audio input solutions, adapt to different conference scenarios and meet more audio needs.

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Fast Processing with 8-core processor, DDR 4G, EMMC 16G.

- **Ultra-high network security**

  Support H.460 firewall traversal technology to solve the security connection of public and private networks. Support H.235, SRTP protocol and AES-128 and other encryption algorithms to ensure communication security in all aspects.

- **Infrared transparent transmission**

  The terminal supports the serial port to receive infrared signals. When working with a specified model of camera, it can receive infrared remote control signals through the camera. Even if the conference terminal is hidden at the back end, all terminal controls can be satisfied.

- **4K UHD**

  Support 4K UHD, support 2-way HDMI high-definition video input, 2-way (HDMI) high-definition video output.

- **Remote, local recording and playing**

  Support remote recording and playing function, only need a PC to realize conference recording and playing function. Support USB memory disk recording, plug and play, meeting records are safe and confidential.

- **Super strong anti-packet loss ability, effectively solve the problem of network jitter and packet loss**

  In the case of serious network packet loss, the FEC proprietary technology can be turned on. The packet loss within 20% has no effect on the system, and the conference can still proceed normally if the packet loss is 30%.

- **Embedded MCU 1+5/1+8 (optional license)**

  Embedded MCU allows you to create conference with up to 9 participants without a need of centralized meeting server.

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The Avaya Room System C170 incorporates H.265 High Efficiency Video Coding (HEVC) and supports 4K UHD video resolution providing best in class collaboration experience.

Specifications

System Components	
Contents	• C170 codec x 1 • Infrared remote control x 1 • Power Adapter x 1 • HDMI cable (3m) x 1
Standard and Protocols	
Multi-media Frame Protocols	ITU-T H.323, IETF SIP
Video Standards and Protocols	H.263, H.263+, H.263++,H.264, H.264 SVC, H.264 High Profile, H.265
Audio Standards and Protocols	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.726, SILK *G.722.1/G.722.1C, certified from Polycom®
Dual Stream Protocols	ITU-T H.239, BFCP
Other Standards	H.221, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF
Network Standards and Protocols	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP
Video Features	
People Video Resolution	• 4KP30, guaranteed bandwidth:2048Kpbs • 1080p, guaranteed bandwidth:1024Kpbs • 720p, guaranteed bandwidth:512Kbps
Content Video Resolution	• Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080), 3840x2160 • Coding/Decoding Resolution: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160 • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160
Dual Stream	Dual 4KP30 + 4KP30
Other Video Features	PiP (Picture in Picture), PoP (Picture outside Picture)
Audio Features	
Audio Features	• AEC (Acoustic Echo Cancellation) • AGC (Automatic Gain Control) • ANS (Acoustic Noise Suppression) • Lip synchronization

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Connectivity options to suite customer requirements. Select from multiple input and output ports as per the use cases and setup.

Video Interfaces	
Video Input	1 x Integrated 4K Ultra-HD Camera 1 x HDMI input, HDMI 2.0, Maximum resolution 4K@60Hz
Integrated 4K Ultra-HD Camera	• 4K@30FPS • Sensor: 1/2.5 inch, CMOS, effective pixels: 8.51 million • Lens: 12x optical zoom • Maximum horizontal viewing Angle: 72° • Head: horizontal ±162.5°, vertical -30° ~ +90° • Support automatic white balance, automatic exposure, automatic focus • Supports remote camera control • Supports mirroring/inversion
Video Output	2 x HDMI, HDMI 2.1, CEC supported, Maximum resolution 4K@60Hz
Video encoding/ decoding	Hardware Codec H.265 H.264 Support H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60FPS Support H.264/H.265 video encoding, up to 8K30FPS
Other Video Features	Dual screen display, AI tracking
Audio Interfaces	
Audio Input	2 x built-in microphone input 1 x XLR microphone input 1 x 3.5mm line-in 1 x USB 3.0 1 x HDMI built-in audio input 1 x DMIC
Audio Output	1 x 3.5mm line-out 1 x USB 3.0 1 x HDMI embedded audio output
Other Interfaces	
Infrared Interface	1 x infrared interface
Meeting Interface	1 x RJ45 Touch/DMIC port
USB Interface	3 x USB 3.0
TF Interface	1 x TF card interface, maximum support 128G
Network Interface	1 x RJ45: 10/100/1000 Base-T 1 x Wireless : 802.11 b/g/n/ac (WiFi 5)
Bandwidth	64kbps ~ 8Mbps

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Option to connect an external camera to increase coverage.

Security	
Network	FEC (Forward Error Correction), ARQ (Automatic Repeat-reQuest) etc.
Security	• H.235 (AES) signaling and media stream encryption • Administrator password, SSH/HTTPS
Firewall Traversal	H.460.18/19, H.460.23/24, ICE
Application Features	
Languages	English, Spanish, Italian, French, German, Portuguese, Chinese
Contacts	10,000 local address book
General Features	
Dimension	Terminal dimensions (excluding PTZ protrusions) : 258mm x 146mm x 170mm
Electrical	• Operating Voltage: DC 12V • Maximum power consumption: 50W
Environmental Requirement	• Temperature: 0°C ~ 40°C (operating), -40°C ~ 70°C (non-operating) • Relative humidity: 10% ~ 80% (operating), 0% ~ 95% (non-operating)
Certification	CE, RoHS, FCC, CCC, TUV CB, IC, RCM, IMDA

About Avaya

Businesses are built by the experiences they provide, and every day, millions of those experiences are delivered by Avaya. Organizations trust Avaya to provide innovative solutions for some of their most important ambitions and challenges, giving them the freedom to engage their customers and employees in ways that deliver the greatest business benefits.

Avaya contact center and communications solutions power immersive, personalized, and unforgettable customer experiences that drive business momentum. With the freedom to choose their journey, there's no limit to the experiences Avaya customers can create.

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