Webex Room Kit Pro





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The Webex[®] Room Kit Pro provides a powerful and flexible platform for creating the ultimate video collaboration experience – large, custom video rooms, including boardrooms, auditoriums, classroom theaters, conference rooms and purpose-built workspaces for vertical applications. The Room Kit Pro is the most advanced product within the Room Kit Series, built with integrators in mind and enabling flexibility and creativity for customized video collaboration rooms that delight customers.

The Room Kit Pro acts as the audio and video engine for Ultra-High-Definition (UHD) video collaboration applications and AV integrations in which multiple screens, cameras, and content sources may be required – either with the Webex Quad Camera, PTZ 4K Camera, Precision 60 Camera, or SpeakerTrack 60 dual camera. The Room Kit Pro continues the same artificial intelligence capabilities already offered on the rest of the Webex Room Series: intelligent views and framing, noise suppression, voice commands, and people count.



Figure 1. The Webex Room Kit Pro with dual screen setup deployed in auditorium

The Room Kit Pro delivers up to 2160p60 end-to-end UHD video. The codec's rich set of video and audio inputs, flexible media engine, and support for up to three screens enable a variety of use cases, adaptable to your specific needs. The Room Kit Pro can be registered on premises or to the Webex cloud service.

The Room Kit Pro supports intelligent cameras and functionality to enable dynamic viewing capabilities and custom deployments for premium video meetings:

- Webex Quad Camera: Camera system with four embedded digital cameras that enable best overview and speaker tracking capabilities. With the Quad Camera, the Room Kit Pro can also deliver analytics such as people count.
- Webex SpeakerTrack 60 Camera: Dual camera system featuring a unique direct, fast-switching approach for speaker tracking with two Precision 60 cameras.

- Webex PTZ 4K Camera: A premium pan-tilt-zoom camera that provides superior video quality, powerful zoom capabilities, intelligent AI-based features, including PresenterTrack, and flexibility for optimized video collaboration experiences.
- Webex Precision 60 Camera: Enables users to provide superior video quality at any bandwidth.
 Designed specifically for video conferencing, the Precision 60 camera provides true-to-life quality for interaction and collaboration while featuring PresenterTrack.

With its powerful media engine, the Room Kit Pro lets you build the video collaboration room tailored to your specific requirements.



Figure 2. The Webex Room Kit Pro in large briefing room with dual screen setup and combined with the Webex PTZ 4K Camera

Cisco offers three integrator bundle options for the Webex Room Kit Pro:

1. Room Kit Pro bundle



Figure 3. Webex Room Kit Pro integrator package with Codec Pro, Quad Camera and Webex Room Navigator

2. Room Kit Pro PTZ 4K bundle







Figure 6. The Webex Codec Pro

Bringing more intelligence to large and specialized rooms

The Webex Room Kit Pro is video innovation in a box, bringing more intelligence and usability to your largest and specialized collaboration rooms and spaces. While others are still struggling to insert advanced features such as speaker tracking, wireless sharing, and 4K content into their high-end products, Cisco is already proliferating these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room Kit Pro, you can experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. And when registered to the Webex cloud service, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

- Smart meetings: Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression to reduce meeting disruptions
- **2. Smart presentations:** Supports up to three screens, dual content sources, wireless sharing, and 4K content make for great presentations
- 3. Smart integrations: People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization
- 4. Registration flexibility: Built for both cloud and onpremises deployment, protecting your investment

Product features

Table 1 summarizes the key features of the Webex Room Kit Pro.

Table 1. Feature summary

FEATURE SUMMARY	
Design features	 One of the most powerful and feature-rich codecs available, with the ultimate in video and audio quality UHD resolution to support large screen surfaces 1.5 Rack Units (RU) high, rack mountable, with optional rack-mounting solution Professional-grade connectors using Euroblock/Phoenix Unmatched quality and flexibility Standards-compliant 1080p and 2160p solution, compatible with standards-based video without losing features
Application features	 Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from Macs and PCs Supports switched conferencing for enhanced layouts and enabling video on multiple screens Easy control of room peripherals such as lights, room dividers, and curtains directly from the Webex Room Navigator through the API (requires external third-party control system processor) Limitless integration possibilities Participate in Webex whiteboarding sessions from the Webex App; receive onscreen notification of shared whiteboard content (supported on cloud-registered devices) Embedded MultiSite with up to 5 participants 6 simultaneous video inputs that can be combined individually on all 3 outputs Calls with HD video and UHD content Simplified join-meeting experience with One Button to Push (OBTP) Ideal for team-based collaboration, boardrooms, meeting rooms, and industry applications
Performance features	 Optimal definition up to 1080p60 Up to 15 Mbps total MultiSite bandwidth (6 Mbps in point-to-point calls) 6 simultaneous video inputs - 3 4K and 3 Full HD Connect up to 8 microphones directly to the codec Full-duplex audio with high-quality stereo sound Full API Cisco Media Assure packet loss protection (Cisco ClearPath also supported)

Product capabilities

Table 2 lists the specifications for the Webex Room Kit Pro and select specifications for relevant cameras and peripherals where noted.

Table 2. Product specifications

SPECIFICATION	DESCRIPTION
Software compatibility	 Cisco Collaboration Endpoint (CE) Software Version 9.14.5 or later, or Webex RoomOS
Default components in Room Kit Pro bundle	 Webex Codec Pro Webex Quad Camera Webex Room Navigator Wall mount for Quad Camera
Dafault components in Room Kit Pro PTZ 4K integrator bundle	 Webex Codec Pro Webex PTZ 4K Camera Webex Room Navigator
Optional hardware components	 Cisco Table Microphone (with Euroblock plug), Cisco Ceiling Microphone, wall mount for Codec Pro, rack mount for Codec Pro, various cables
Bandwidth	Up to 6 Mbps point-to-point
Minimum bandwidth for resolution/frame rate	 720p30 from 768 kbps 720p60 from 1152 kbps 1080p30 from 1472 kbps 1080p60 from 2560 kbps
Firewall traversal	 Cisco Expressway™ technology H.460.18, H.460.19 firewall traversal

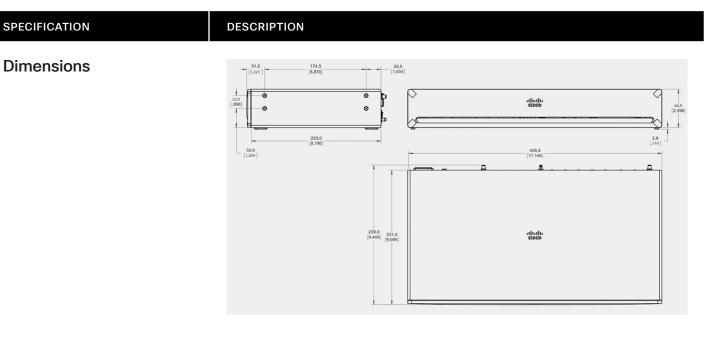
SPECIFICATION	DESCRIPTION	
Video standards	 H.264, H.265, H.263 for TANDBERG MXP interop only (check Admin Guide) 	
Video inputs (6)	 2 HDMI inputs support formats up to maximum 1080p60 3 HDMI inputs support formats up to maximum UHD (3840 x 2160) @ 30 fps including HD1080p60 One 3G-SDI/HD-SDI input supports formats up to maximum 1080p60 Extended Display Identification Data (EDID) Consumer Electronics Control (CEC) 2.0 	
Video outputs (3)	 2 HDMI outputs support formats up to 3840 x 2160@60 fps (4Kp60) 1 HDMI output supports formats up to 3840 x 2160@30 fps (4Kp30) CEC 2.0 	
Encode and decode	 Video stream: Full HD 1080p60 Content stream: 4K 2160p15 	
Audio standards	 G.711, G.722, G.722.1, G.729AB, 64 kbps and 128 kbps MPEG4 AAC- LD mono and stereo, OPUS 	
Audio features	 High quality 20-kHz audio 8 separate acoustic echo cancellers 8-port audio mixer 8 assignable equalizers Automatic Gain Control (AGC) Automatic noise reduction Active lip synchronization 	
Audio inputs	 8 microphones, 48V phantom powered, Euroblock connector, each with separate echo cancellers and noise reduction; all microphones can be set for balanced line level 3 HDMI, digital: stereo PC/DVD input Bluetooth[®] - Not available on Non Radio Version* 	

SPECIFICATION	DESCRIPTION
Audio outputs	 6 balanced line level outputs, Euroblock connector 3 HDMI outputs HDMI input #1 supports Audio Return Channel (ARC) audio output to Quad Camera 1 line out for subwoofer (Quad Camera) Bluetooth[®] - Not available on Non Radio Version*
Speakers (Quad Camera)	 High-quality speakers Frequency response 70 Hz to 20 kHz Max output level SPL 90 dB
Speaker tracking (Quad Camera, SpeakerTrack 60)	 Quad Camera offers 6-element microphone array for accurate speaker tracking Quad Camera can support Group Framing feature with 5x zoom capability SpeakerTrack 60 can support Closeup feature with 20x zoom capability
PresenterTrack (PTZ 4K Camera, Precision 60)	 AI-powered face and upper body detection capability Camera automatically follows the active presenter within a defined zone and helps ensure optimized view
Dual stream	 H.239 (H.323) dual stream BFCP Session Initiation Protocol (SIP) dual stream Supports resolutions up to 3840 x 2160p15 fps and 1080p60
Wireless sharing	 Webex clients (up to 3840 x 2160p5) Cisco Intelligent Proximity client (up to 1920 x 1080p5) Miracast (1080p30) - Not available on Non radio version*
Multipoint support	 5-way embedded SIP/H.323 conferencing capability with MultiSite option

SPECIFICATION	DESCRIPTION
MultiSite features (embedded multipoint) (optional upgrade)	 Adaptive SIP/H.323 MultiSite: 3-way resolution up to 1080p30 plus content up to 4Kp15 4-way resolution up to 720p30 plus content up to 4Kp15 5-way resolution up to 720p30 plus content up to 4Kp15 Full individual audio and video transcoding H.323, SIP, and VoIP in the same conference Support for presentation (H.239, BFCP) from any participant at resolutions up to 3840 x 2160p5 Best impression (automatic continuous presence layouts) Encryption and dual stream from any site
Protocols	 H.323 SIP Webex
Embedded encryption	 H.323 and SIP point-to-point Standards-based: H.235 v3 and Advanced Encryption Standard (AES) Automatic key generation and exchange
IP network features	 DNS lookup for service configuration Differentiated Services (DiffServ) (Quality of Service [QoS]) IP-adaptive bandwidth management (including flow control) Automatic gatekeeper discovery Dynamic playout and lip-sync buffering H.245 Dual-Tone Multifrequency (DTMF) tones in H.323 DTMF tones in SIP, RFC 4733 Date and time support using Network Time Protocol (NTP) Packet loss-based down speeding Uniform Resource Identifier (URI) dialing TCP/IP Dynamic Host Configuration Protocol (DHCP) 802.1X network authentication 802.1p QoS and class of service Cisco Media Assure and ClearPath

SPECIFICATION	DESCRIPTION
Call control	 Cisco Collaboration Cloud/Webex Cisco Unified Communications Manager (CUCM) Native registration CUCM Requires CUCM Version 10.5.2 or later with device pack for Room Kit Pro Cisco TelePresence Video Communication Server (VCS) Native registration with VCS Third-party H.323 gatekeepers and standards-based SIP proxies
IPv6 network support	 Single call stack support for both H323 and SIP Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ Support for static IP address assignment, stateless auto-configuration, and DHCP v6
Security features	 Management using HTTPS and SSH IP administration password Password to access administration features on Touch controller Disable IP services Network settings protection
Certificate management	 Certificate Authority Proxy Function (CAPF) support for additional security Manufacturer-Installed Certificates (MIC) Locally Significant Certificates (LSC) X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported

SPECIFICATION	DESCRIPTION
Network interfaces Codec Pro	 1 Ethernet (RJ-45) 10/100/1000 for LAN 2 Ethernet (RJ-45) 10/100/1000 for direct pairing with camera (camera control) 2 Ethernet (RJ-45) 10/100/1000 with PoE, 1 dedicated for direct pairing with Touch 10 Wi-Fi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz for LAN - not available in non-radio versions 2x2 Multiple Input and Multiple Output (MIMO)
	Note: Due to compliance regulations, it is required that 802.11d is enabled in the access point for the product to operate properly within 5725 MHz – 5875 MHz.
	Using a Wifi connection is a flexible option, however an Ethernet connection is always preferred for high performance.
Other interfaces	• 2x USB A port, USB-B, micro USB port, factory reset pinhole
Power supply (Quad Camera)	 100 to 240 VAC, 50/60 Hz, 12V DC input Standby 6W, average 20W, peak 70W
Operating temperature and humidity	 0° to 40°C (32° to 104°F) ambient temperature 10% to 90% Relative Humidity (RH)
Storage and transport temperature	 -20° to 60°C (-4° to 140°F) at RH 10% to 90% (noncondensing)



Codec Pro:

- Width: 17.1 in. (43.6 cm)
- Height: 2.6 in. (6.6 cm)
- Depth: 9.1 in. (23.1 cm)
- Weight: 7.3 lb (3.3 kg)



Quad Camera:

- Width: 37.4 in. (95.0 cm)
- Height: 4.7 in. (12.0 cm)
- Depth: 4.0 in. (10.3 cm)
- Weight: 10.6 lb (4.8 kg)

Dimensions for other available cameras:

- PTZ 4K Camera:
 - Width: 6.3 in. (15.8 cm)
 - Height (at max tilt): 7.0 in. (17.7 cm)
 - Depth: 8.0 in. (20.0 cm)
 - Weight: 3.75 lb (1.7 kg)

SPECIFICATION	DESCRIPTION
	 Precision 60 Camera: Length: 10.6 in. (26.8 cm) Height (at max. tilt): 7.1 in (18 cm) Depth: 6.4 in. (16.3 cm) Weight: 5.5 lb. (2.5 kg)
	 SpeakerTrack 60 Camera: Length: 31.5 in. (80.0 cm) Height: 11.5 in. (29.2 cm) Depth: 8.3 in. (21.0 cm) Weight: 25.4 lb (11.5 kg)

WEBEX QUAD CAMERA OVERVIEW

5K Ultra HD camera

Support up to 60 fps

15.1 MP image sensor

1/1.7 CMOS

5x digital zoom (3 tele-lenses each with 50° horizontal field of view)

f/2.0 aperture

83° horizontal field of view; 51.5° vertical field of view

Auto-framing (audio + face detect)

WEBEX PTZ 4K CAMERA OVERVIEW

- 1920 x 1080 at 60 fps/3840 x 2160 at 30 fps resolution
- Zoom 240x total
 - 20x optical zoom
 - 12x digital zoom
- Pan and tilt
 - Pan range: +/- 170 degrees
 - Tilt range: +/- 20 degrees
- Field of View (FoV)
 - Horizontal FoV: 70 degrees
- 1.0 m to infinity (wide) focus distance
- F-value: 2.0 3.8
- Camera control: Visca over IP (LAN port)
- Focus, white balance, and brightness: Manual or automatic
- Video interfaces
 - HDMI 2.0
- Power
 - 12V/3A
 - 100 to 120/200 to 240 VAC, 50/60 Hz
 - PoE+ (IEEE802.3at compatible)
 - Must be used with power supply FSP040-RHAN3, Phihong POE29U-1AT(PL) or Microsemi PD-9001GR/AT/AC

WEBEX PRECISION 60 CAMERA OVERVIEW

- 1920 x 1080 at 60 fps resolution
- Zoom
 - 10x optical zoom
 - 2x digital zoom
 - 20x total zoom
- Pan and tilt
 - Pan range: +/- 100 degrees
 - Tilt range: +/- 20 degrees
- Field of view (FoV)
 - Horizontal FoV: 80 degrees
 - Vertical FoV: 48.8 degrees

WEBEX PRECISION 60 CAMERA OVERVIEW

- 1.0 m to infinity (wide) focus distance
- F-value: 1.5
- Camera control: Ethernet
- · Focus, white balance, and brightness: Automatic or manual
- Video interfaces
 - HDMI 1.4
 - 3G-SDI
- Power
 - 12V/3A
 - 100-120/200-240VAC, 50/60 Hz

Network interfaces: One LAN/Ethernet (RJ-45) 10/100 Mbit

CISCO TELEPRESENCE SPEAKERTRACK 60 CAMERA OVERVIEW

- 1920 x 1080 at 60 frames per second (fps)
- Zoom 20x total
 - 10x optical zoom
 - 2x digital zoom
- Pan and tilt
 - Pan range: +/- 100 degrees
 - Tilt range: +/- 20 degrees
- Field of View (FoV)
 - Horizontal FoV: 80 degrees
 - Vertical FoV: 48.8 degrees
 - Tracking horizontal FoV: 80 degrees
- 1.0 m to infinity (wide) focus distance
- F-value: 1.5
- Camera control: Ethernet
- · Focus, white balance, and brightness: Manual or automatic
- Video interfaces
 - HDMI 1.4
- Power
 - 12V/6.5A
 - 100-120 or 200-240 VAC; 50 or 60 Hz

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Regulatory compliance

- 1. Directive 2014/30/EU (EMC Directive) and Directive 2014/35/EU (Low-Voltage Directive) for the non-radio versions
- 2. Directive 2014/53/EU (Radio Equipment Directive) for the radio versions
- 3. Directive 2011/65/EU (RoHS)
- 4. Directive 2002/96/EU (WEEE)
- 5. NRTL approved (Product Safety)
- 6. FCC Listed (Radio Equipment)

Standards

- 1. Radio: EN 300 328, EN 301 893, EN 300 440 (only for the radio versions)
- 2. EMC: EN 301 489-1 and -17 (only for the radio versions), EN 55032 Class A, EN 55024
- 3. Safety: EN 60950-1 (for radio and non-radio), EN 62479, EN 62311 (for the radio versions)
- 4. FCC CFR 47 Part 15B (EMC) Class A
- 5. FCC CFR 47 Part 15C (RF)
- 6. FCC CFR 47 Part 15E (RF)

Please check the Product Approval Status Database https://www.ciscofax.com/ for approval documents per country.

Ordering information

To place an order, please contact your local Cisco representative and refer to Table 3.

Table 3. Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Room Kit Pro - GPL, including	CS-KITPRO-K9	_
Webex Codec Pro	CS-CODEC-PRO+	TTC6-13
Webex Quad CameraWebex Room Navigator control unit	CS-QUADCAM+	TTC8-10
	CS-T10-TS+	TTC5-15
Webex Room Kit Pro with PTZ 4K Camera – GPL, including	CS-KITPRO-PTZ4K-K9	_
	CS-CODEC-PRO+	TTC6-13
Webex Codec ProWebex PTZ 4K Camera	CS-CAM-PTZ4K+	EVI-X200C
Webex Room Navigator control unit	CS-T10-TS+	TTC5-15

 Table 3.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Codec Pro - GPL, including	CS-CODEC-PRO-K9	TTC6-13
Webex Codec Pro	CS-CODEC-PRO+	TTC6-13
Webex Codec Pro, No Radio - GPL	CS-CODEC-PRO-NR-K9	TTC6-13
 Webex Codec Pro – No Radio 	CS-CODEC-PRO-NR+	TTC6-13
Webex Codec Pro – TAA compliant,	CS-CODEC-PRO-K9++	TTC6-13
including	CS-CODEC-PRO-NR++	TTC6-13
 Webex Codec Pro - TAA, No Radio, or Webex Codec Pro - TAA 	CS-CODEC-PRO++	TTC6-13
Webex Codec Pro, No Radio,	CS-CODEC-PRO-K7	TTC6-13
nonencrypted – GPL	CS-CODECPRO-NR-K7+	TTC6-13
 Webex Codec Pro – No Radio 		
Options		
Rack ears for Codec Pro	CS-CPRO-RACKEARS	-
Wall-mount kit for Codec Pro	CS-CPRO-WMK	-
Cisco Table Microphone with Euroblock connector	CS-MIC-TABLE-E	TTC5-14
Extension cable for Table Microphone	CAB-MIC-EXT-E	-

 Table 3.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Cisco Ceiling Microphone	CTS-MIC-CLNG-G2	TTC5-13
Shielded cable for Ceiling Microphone (non-plenum rated)	CAB-ETHRSHLD-10M	_
8 m/26 ft HDMI 2.0 certified cable	CAB-PRES-2HDMI-GR	-
HDMI 2.0 cable 1.5 m/5 ft, gray	CAB-2HDMI-1.5M-GR	_
HDMI 2.0 cable 3 m/10 ft, gray	CAB-2HDMI-3M-GR	_
Ethernet cable 1.5 m/5 ft, gray	CAB-ETH-1.5M-GR	_
Ethernet cable 3 m/10 ft, gray	CAB-ETH-3M-GR	_
Ethernet cable 5 m/16.4 ft, gray	CAB-ETH-5M-GR	_
Software options – ordered separately		
Remote Monitoring	L-KIT-RM (L-TP-RM)	-
MultiSite (embedded multipoint)	L-KITPRO-MS	-
Spares		
Webex Codec Pro	CS-CODEC-PRO=	TTC6-13
Webex Codec Pro – No Radio No Crypto	CS-CODEC-PRO-NR-K7=	TTC6-13

 Table 3.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Quad Camera	CS-QUADCAM=	TTC8-10
Webex PTZ 4K Camera	CS-CAM-PTZ4K=	EVI-X200C
Webex Precision 60 Camera	CTS-CAM-P60=	TTC8-07

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of <u>Cisco's Corporate</u>. <u>Social Responsibility</u> (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

SUSTAINABILITY TOPIC	REFERENCE
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco Service and Support

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize the full value of your Cisco Collaboration investment by increasing business agility and network availability. Our portfolio of services helps you accelerate business innovation through a network-based collaboration platform that enables businesses to collaborate anywhere, at any time. For more information about these services, visit https://www.cisco.com/c/en/ us/solutions/collaboration/service-listing.html.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.



For more information Learn more about the <u>Webex Room Kit Pro</u>. Learn more about the <u>Webex Room Kit Pro PTZ 4K Integrator Bundle</u>. Download the <u>Webex App</u>.

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