

# Cisco Webex Room Kit

Cisco Webex Room Kit is a powerful collaboration solution that integrates with flat panel displays to bring more intelligence and usability to your small to medium-sized meeting rooms – whether registered on the premises or to Cisco Webex in the cloud.

## Cisco Webex Room Kit overview

Cisco Webex™ Room Kit delivers the unmatched video and audio experience customers have come to expect from Cisco. In addition, new capabilities enable even smarter meetings, smarter presentation capabilities, and smarter room and device integrations – further removing the barriers to usage and deployment of video in small to medium-sized rooms.

The Room Kit – which includes camera, codec, speakers, and microphones integrated in a single device – is ideal for rooms that seat up to seven people. It offers sophisticated camera technologies that bring speaker-tracking capabilities to smaller rooms. The product is rich in functionality and experience but is priced and designed to be easily scalable to all of your small conference rooms and spaces – whether registered on the premises or to Cisco Webex.

**Figure 1.** Cisco Webex Room Kit in small room scenario



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## Cisco Webex Room Kit features and benefits

| Feature                             | Benefit  |
|-------------------------------------|--|
| <b>Smart meetings</b>               | <ul style="list-style-type: none"> <li>• Brings intelligent views to smaller rooms with a discreet, integrated camera               <ul style="list-style-type: none"> <li>◦ Best overview: Automatically detects meeting participants and provides ideal framing</li> <li>◦ Speaker tracking: Detects and switches between active speakers and provides ideal framing</li> </ul> </li> <li>• Great audio experience with integrated microphones and speakers; supports room elegance with no wires or microphones on the table</li> <li>• Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling)</li> <li>• Simplified meeting-join experience with One Button to Push (OBTP) for scheduled devices in a Cisco Webex meeting, whether registered on-prem or to Cisco Webex</li> <li>• Automatic wake-up: System “wakes up” when someone walks into the room, and recognizes them through their mobile device</li> <li>• Easily controlled by the Cisco Touch 10 control unit or with a Cisco Webex Teams app</li> <li>• End-to-end security</li> </ul> |
| <b>Smart presentations</b>          | <ul style="list-style-type: none"> <li>• Supports dual screens for video and content</li> <li>• Supports dual content sources for local meetings</li> <li>• View white board content and annotations shared from Cisco Webex Board, Cisco Webex DX80, or Cisco Webex Teams app; participate in white boarding sessions through Cisco Webex Teams app</li> <li>• 4K content sharing (local 30 fps; remote 5 fps)</li> <li>• Wired or wireless content sharing (only two wires required – power and HDMI)</li> </ul>   |
| <b>Smart rooms</b>                  | <ul style="list-style-type: none"> <li>• Metrics: Counts people in the room, enabling analytics for better resource planning</li> <li>• Automatic screen/display integration through HDMI CEC</li> <li>• Supports Wi-Fi</li> <li>• In-room control: Control peripherals such as lights and blinds through the Cisco Touch 10</li> </ul>  |
| <b>Built for cloud and premises</b> | <ul style="list-style-type: none"> <li>• Flexibility to register on the premises or to the cloud through Cisco Webex</li> <li>• Hardware is optimized to run on a cloud platform, for great experiences in shared rooms and spaces with easy access to hosted conferences</li> </ul>   |

\* Supported on Cisco Webex-registered devices only

## Cisco Webex Room Kit prominent feature/differentiator

### Bringing more intelligence to small and medium-sized rooms

The Cisco Webex Room Kit offers video innovation in a box, bringing more intelligence and usability to your small to medium team collaboration rooms. 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 bringing these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room Kit, Cisco is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations.

These features were previously the domain of higher-end video conferencing rooms, but can now be brought to every room and every team. And when registered to Cisco Webex, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

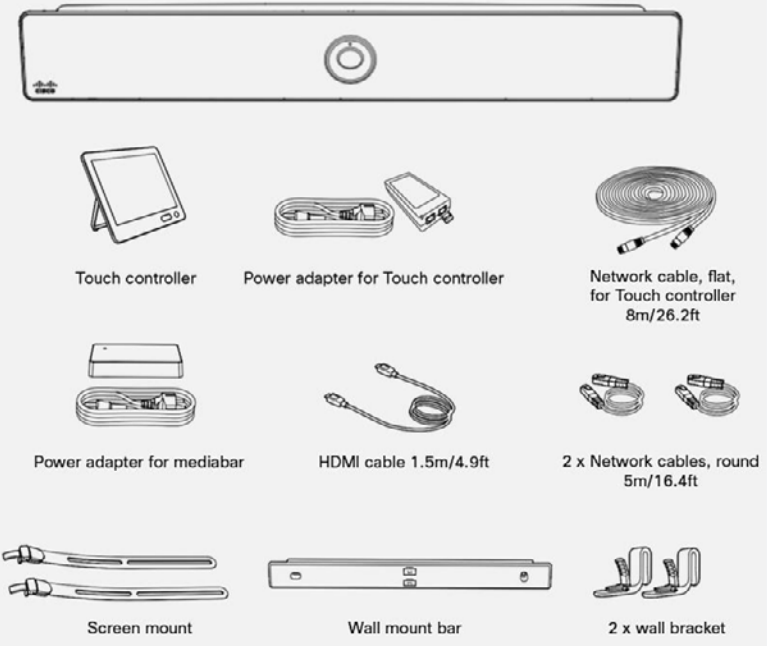
- **Smart meetings:** Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression reduces meeting disruptions
- **Smart presentations:** Dual screens, dual content sources, wireless sharing, and 4K content make for great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

## Cisco Webex Room Kit registration

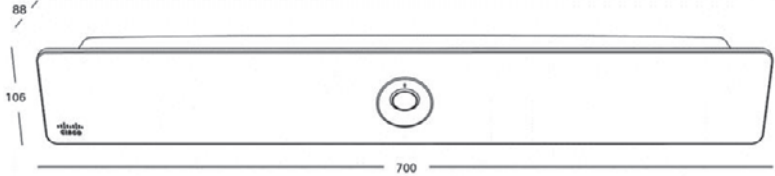
| License Level                   | Term   |
|---------------------------------|--|
| Cisco Webex Device Subscription | Monthly or 1-, 2-, 3-, 4-, or 5-year options |

## Product specifications

**Table 1.** Specifications

| Specification                                      | Description  |
|--|--|
| <b>Software compatibility</b>                      | <ul style="list-style-type: none"> <li>Cisco Collaboration Endpoint Software Version 9.0 or later, and Cisco Webex Room OS</li> </ul>  |
| <b>Default components in Cisco Webex Room Kit</b>  |  <p>Touch controller</p> <p>Power adapter for Touch controller</p> <p>Network cable, flat, for Touch controller 8m/26.2ft</p> <p>Power adapter for mediabar</p> <p>HDMI cable 1.5m/4.9ft</p> <p>2 x Network cables, round 5m/16.4ft</p> <p>Screen mount</p> <p>Wall mount bar</p> <p>2 x wall bracket</p> |
| <b>Optional hardware components</b>                | <ul style="list-style-type: none"> <li>Cisco Table Microphone 20</li> <li>Microphone extension cable</li> <li>HDMI second monitor cable 1.5 m/4.9 ft.</li> <li>HDMI presentation cable 8 m/26.2 ft.</li> </ul>   |
| <b>Bandwidth</b>                                   | <ul style="list-style-type: none"> <li>Up to 6 Mbps point-to-point</li> </ul>  |
| <b>Minimum bandwidth for resolution/frame rate</b> | H.264: <ul style="list-style-type: none"> <li>720p30 from 768 kbps</li> <li>720p60 from 1152 kbps</li> <li>1080p30 from 1472 kbps</li> <li>1080p60 from 2560 kbps</li> </ul>   |
| <b>Firewall traversal</b>                          | <ul style="list-style-type: none"> <li>Cisco Expressway™ technology</li> <li>H.460.18, H.460.19 firewall traversal</li> </ul>  |
| <b>Video standards</b>                             | <ul style="list-style-type: none"> <li>H.264, H.265</li> </ul>   |
| <b>Video inputs</b>                                | <ul style="list-style-type: none"> <li>One HDMI input supports formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>   |
| <b>Video outputs</b>                               | <ul style="list-style-type: none"> <li>Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60)</li> <li>Live video resolutions (encode and decode) up to 1920 x 1080p30 and p60 (HD1080p)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>   |
| <b>Audio standards</b>                             | <ul style="list-style-type: none"> <li>G.711, G.722, G.722.1, G.729, AAC-LD, and Opus</li> </ul>   |

| Specification  | Description  |
|--|--|
| <b>Audio features</b>  | <ul style="list-style-type: none"> <li>• High-quality 20 kHz audio</li> <li>• Prepared for subwoofer (line out)</li> <li>• Prepared for inductive loop (line out)</li> <li>• Automatic Gain Control (AGC)</li> <li>• Automatic noise reduction</li> <li>• Active lip synchronization</li> </ul>  |
| <b>Audio inputs</b>  | <ul style="list-style-type: none"> <li>• Two microphones, 4-pin mini-jack</li> <li>• One audio in from HDMI</li> <li>• Internal microphone</li> </ul>  |
| <b>Audio outputs (external)</b>                                    | <ul style="list-style-type: none"> <li>• 1 line out mini-jack (stereo)</li> </ul>  |
| <b>Speakers (integrated)</b>                                       | <ul style="list-style-type: none"> <li>• High-quality speakers: five speakers in balanced configuration</li> <li>• Frequency response 70 Hz to 20 kHz</li> <li>• Amplifier power: 24W</li> <li>• Max output level SPL 86 dB</li> </ul>   |
| <b>Speaker tracking</b>  | <ul style="list-style-type: none"> <li>• 6-element microphone array for accurate speaker tracking</li> </ul>   |
| <b>Dual stream</b>   | <ul style="list-style-type: none"> <li>• H.239 (H.323) dual stream</li> <li>• Binary Floor Control Protocol (BFCP) (SIP) dual stream</li> <li>• Supports resolutions up to 3840 x 2160p5</li> </ul>  |
| <b>Wireless sharing</b>  | <ul style="list-style-type: none"> <li>• Cisco Webex Teams appt (up to 3840 x 2160p5)</li> <li>• Cisco Intelligent Proximity client (up to 1920 x 1080p5)</li> </ul>   |
| <b>Multipoint support</b>  | <ul style="list-style-type: none"> <li>• 4-way embedded SIP/H.323 conferencing capability with MultiSite option</li> </ul>   |
| <b>MultiSite features (embedded multipoint) (optional upgrade)</b> | <ul style="list-style-type: none"> <li>• Adaptive SIP/H.323 MultiSite: <ul style="list-style-type: none"> <li>◦ 3-way resolution up to 1080p30 + content up to 4Kp5</li> <li>◦ 4-way resolution up to 720p30 + content up to 4Kp5</li> </ul> </li> <li>• Full individual audio and video transcoding</li> <li>• H.323/SIP/VoIP in the same conference</li> <li>• Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5</li> <li>• Best Impression (automatic continuous presence layouts)</li> <li>• Encryption and dual stream from any site</li> </ul>   |
| <b>Protocols</b>   | <ul style="list-style-type: none"> <li>• H.323</li> <li>• SIP</li> <li>• Cisco Webex</li> </ul>  |
| <b>Embedded encryption</b>   | <ul style="list-style-type: none"> <li>• H.323 and SIP point-to-point</li> <li>• Standards-based: H.235 v3 and Advanced Encryption Standard (AES)</li> <li>• Automatic key generation and exchange</li> </ul>  |
| <b>IP network features</b>   | <ul style="list-style-type: none"> <li>• DNS lookup for service configuration</li> <li>• Differentiated services (Quality of Service [QoS])</li> <li>• IP-adaptive bandwidth management (including flow control)</li> <li>• Automatic gatekeeper discovery</li> <li>• Dynamic playout and lip-sync buffering</li> <li>• H.245 Dual-Tone Multifrequency (DTMF) tones in H.323</li> <li>• RFC 4733 DTMF tones in SIP</li> <li>• Date and time support using Network Time Protocol (NTP)</li> <li>• Media adaptation and resilience</li> <li>• Uniform Resource Identifier (URI) dialing</li> <li>• Dynamic Host Configuration Protocol (DHCP)</li> <li>• 802.1X network authentication</li> <li>• 802.1Q Virtual LAN</li> <li>• 802.1p (QoS and Class of Service [CoS])</li> </ul> |

| Specification                             | Description  |
|---|--|
| <b>Call Control</b>                       | <ul style="list-style-type: none"> <li>• Cisco Unified Communications Manager (CUCM) <ul style="list-style-type: none"> <li>◦ Native registration with CUCM</li> <li>◦ Requires CUCM Version 10.5.2 or later with device pack for Room Kit</li> </ul> </li> <li>• Cisco Expressway <ul style="list-style-type: none"> <li>◦ Native registration with Expressway</li> </ul> </li> <li>• Cisco Webex Service</li> <li>• Third-party H.323 Gatekeepers and standards-based SIP proxies</li> </ul>                 |
| <b>IPv6 network support</b>               | <ul style="list-style-type: none"> <li>• Single call stack support for both H.323 and SIP</li> <li>• Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ</li> <li>• Support for both static and automatic IP configuration (stateless address auto configuration)</li> </ul>  |
| <b>Security features</b>                  | <ul style="list-style-type: none"> <li>• Management using HTTPS and SSH</li> <li>• IP administration password</li> <li>• Menu administration password</li> <li>• Disable IP services</li> <li>• Network settings protection</li> </ul>   |
| <b>Certificate management</b>             | <ul style="list-style-type: none"> <li>• Certificate Authority Proxy Function (CAPF) support for additional security</li> <li>• Manufacturer-Installed Certificates (MIC)</li> <li>• Locally Significant Certificates (LSC)</li> <li>• 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</li> </ul>  |
| <b>Network interfaces</b>                 | <ul style="list-style-type: none"> <li>• One Ethernet (RJ-45) 10/100/1000 for LAN</li> <li>• One Ethernet (RJ-45) for Cisco Touch 10 direct pairing</li> <li>• Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz, 2x2 MIMO</li> <li>• Bluetooth 4.0 LE</li> </ul>   |
| <b>Other interfaces</b>                   | <ul style="list-style-type: none"> <li>• USB 2.0 port, <math>\mu</math>USB, factory reset pinhole</li> </ul>   |
| <b>Power</b>                              | <ul style="list-style-type: none"> <li>• 100 to 240 VAC, 50/60 Hz, 12V DC input</li> <li>• Average 20W, peak 70W</li> </ul>  |
| <b>Operating temperature and humidity</b> | <ul style="list-style-type: none"> <li>• 0°C to 40°C (32°F to 104°F) ambient temperature</li> <li>• 10% to 90% Relative Humidity (RH)</li> </ul>   |
| <b>Storage and transport temperature</b>  | <ul style="list-style-type: none"> <li>• -20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (noncondensing)</li> </ul>   |
| <b>Locking mechanism</b>                  | <ul style="list-style-type: none"> <li>• Kensington security lock</li> </ul>   |
| <b>Dimensions</b>                         |  <p>Diagram showing the dimensions of the device:</p> <ul style="list-style-type: none"> <li>Width: 700 mm</li> <li>Height: 106 mm</li> <li>Depth: 88 mm</li> </ul> <ul style="list-style-type: none"> <li>• Width: 27.5 in. (70.0 cm)</li> <li>• Height: 3.5 in. (10.6 cm)</li> <li>• Depth: 2.9 in. (8.8 cm)</li> <li>• Weight: 7 lb. (3.2 kg)</li> </ul>  |
| <b>Camera Overview</b>                    | <ul style="list-style-type: none"> <li>• 5K UltraHD camera</li> <li>• Supports up to 60 fps (max 30 fps with speaker tracking and best overview enabled)</li> <li>• 15.1 MP image sensor (5184 x 2916 pixels)</li> <li>• 1/1.7 CMOS</li> <li>• 3x zoom</li> <li>• f/2.0 aperture</li> <li>• 83° horizontal field of view; 51.5° vertical field of view</li> <li>• Auto framing (audio + face detect)</li> <li>• Auto focus, brightness, and white balance</li> <li>• Focus distance 1 m to infinity</li> </ul> |