

## Cisco Spark Room Kit Plus Precision 60 Integrator Package

The Cisco Spark™ Room Kit Plus Precision 60 (Room Kit Plus P60) integrator package is a powerful collaboration solution that integrates with flat panel displays to bring more intelligence and versatility to your collaboration spaces. This package combines the performance of the Cisco Spark Room Kit Plus codec (Codec Plus) and the flexibility of the Cisco TelePresence® Precision 60 Camera to offer maximum flexibility in scenarios where you need special camera placement, objects close up, or wide pan/tilt/zoom capability.

### Package Overview

The Room Kit Plus P60 integrator package delivers an unmatched audio and video experience that customers have come to expect from Cisco. In addition, the package provides flexibility for rooms that can benefit from a pan-tilt-zoom camera. The Precision 60 camera not only delivers a premier imaging experience with 10x optical and 20x total zoom power, but also offers a high level of flexibility for custom and specialized integrations. The Precision 60 camera also supports superior adaptability to light conditions and delivers one of the best image qualities in the industry for large meeting rooms.

The Room Kit Plus P60 integrator package is rich in functionality and experience but is priced and designed to be easily scalable to all of your collaboration spaces – whether registered on the premises or to Cisco Spark through the Cisco® Collaboration Cloud.

**Figure 1.** Cisco Spark Room Kit Plus Precision 60 Integrator Package



## Cisco Spark Room Kit Plus Precision 60 Features and Benefits

Feature	Benefit
<b>Smart meetings</b>	<ul style="list-style-type: none"> <li>Powerful imaging with one motorized high-quality camera (10x optical or 20x total zoom)</li> <li>Easily controlled by the Cisco TelePresence Touch 10 or with a Cisco Spark app-enabled device</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>4K content sharing (local 30 fps, remote 5 fps)</li> <li>Wired or wireless content sharing</li> </ul>
<b>Smart integrations</b>	<ul style="list-style-type: none"> <li>Automatic screen and display integration through HDMI Consumer Electronics Control (CEC)</li> <li>Supports Wi-Fi</li> <li>In-room control: Control peripherals such as lights and blinds through the 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 Spark</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>

## Cisco Spark Registration

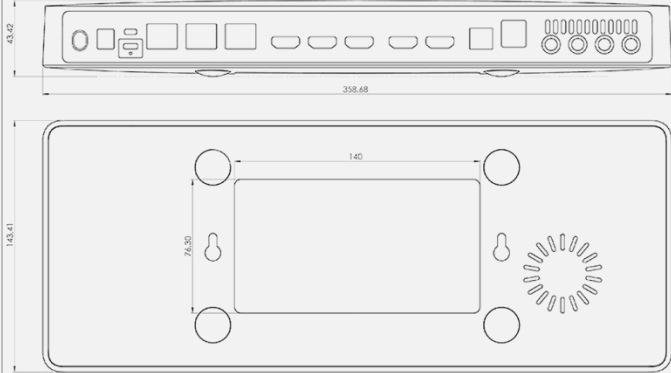
License level	Term
<b>Cisco Spark Room Kit Plus MSRP Cisco Spark Service</b>	Monthly or 1-, 2-, 3-, 4-, or 5-year options

## Product Specifications

**Table 1.** Specifications

Specification	Description
<b>Software compatibility</b>	<ul style="list-style-type: none"> <li>Cisco Collaboration Endpoint Software Version 9.1.5 or later, or Cisco Spark Room OS</li> </ul>
<b>Default components in Cisco Spark Room Kit Plus Precision 60</b>	<ul style="list-style-type: none"> <li>Cisco Spark Codec Plus</li> <li>Cisco TelePresence Precision 60 Camera</li> <li>Cisco TelePresence Touch 10</li> </ul>
<b>Optional hardware components</b>	<ul style="list-style-type: none"> <li>Cisco TelePresence Table Microphone 20, wall mount for Codec Plus, cables</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 1080p60</li> <li>Two HDMI inputs support 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 1080p60 (HD1080p)</li> <li>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>
<b>Audio features</b>	<ul style="list-style-type: none"> <li>High-quality 20-kHz audio</li> <li>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>

Specification	Description
<b>Audio inputs</b>	<ul style="list-style-type: none"> <li>• Three microphones, 4-pin mini-jack</li> <li>• Two audio in from HDMI</li> </ul>
<b>Audio outputs (external)</b>	<ul style="list-style-type: none"> <li>• 1 line out mini-jack (stereo) (Codec Plus)</li> <li>• 1 RCA output for subwoofer</li> <li>• 2 HDMI outputs</li> <li>• HDMI input #1 supports Audio Return Channel (ARC): Audio output to Quad Camera speakers</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) (Session Initiation Protocol [SIP]) dual stream</li> <li>• Supports resolutions up to 3840 x 2160p5 (4Kp5) and 1080p30</li> </ul>
<b>Wireless sharing</b>	<ul style="list-style-type: none"> <li>• Cisco Spark client (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</b> (embedded multipoint) (optional upgrade)	<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 Spark</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 (DiffServ) (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 adaption 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>
<b>Cisco Unified Communications Manager</b>	<ul style="list-style-type: none"> <li>• Native registration with Cisco Unified Communications Manager</li> <li>• Requires Cisco Unified Communications Manager Version 9.1.2 or later</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, Secure Shell (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>

Specification	Description
<b>Network interfaces codec medium</b>	<ul style="list-style-type: none"> <li>• One Ethernet (RJ-45) 10/100/1000 for LAN</li> <li>• One Ethernet (RJ-45) 10/100/1000 for direct pairing with camera</li> <li>• One Ethernet (RJ-45) 10/100/1000 with Power over Ethernet (PoE) for direct pairing with Touch 10</li> <li>• Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz for LAN. 2x2 MIMO</li> <li>• Bluetooth 4.0 Low Energy (LE)</li> </ul>
<b>Other interfaces</b>	<ul style="list-style-type: none"> <li>• USB 2.0 port, uUSB, factory reset pinhole</li> </ul>
<b>Power supplies (2)</b>	<ul style="list-style-type: none"> <li>• 100 to 240VAC, 50/60 Hz, 12VDC 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 35°C (32°F to 95°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 10% to 90% RH (noncondensing)</li> </ul>
<b>Locking mechanism</b>	<ul style="list-style-type: none"> <li>• Kensington security lock</li> </ul>
<b>Dimensions</b>	 <ul style="list-style-type: none"> <li>• Codec Plus: <ul style="list-style-type: none"> <li>◦ Width: 14.1 in. (35.9 cm)</li> <li>◦ Height: 1.7 in. (4.3 cm)</li> <li>◦ Depth: 5.6 in. (14.3 cm)</li> <li>◦ Weight: 3.9 lb. (1.77 kg)</li> </ul> </li> <li>• Precision 60 Camera: <ul style="list-style-type: none"> <li>◦ Length: 10.6 in. (26.8 cm)</li> <li>◦ Height (at max. tilt): 7.1 in (18 cm)</li> <li>◦ Depth: 6.4 in. (16.3 cm)</li> <li>◦ Weight: 5.5 lb. (2.5 kg)</li> </ul> </li> </ul>
<b>Camera overview</b>	<ul style="list-style-type: none"> <li>• 1920 x 1080 at 60 fps resolution</li> <li>• Zoom <ul style="list-style-type: none"> <li>◦ 10x optical zoom</li> <li>◦ 2x digital zoom</li> <li>◦ 20x total zoom</li> </ul> </li> <li>• Pan and tilt <ul style="list-style-type: none"> <li>◦ Pan range: +/- 100 degrees</li> <li>◦ Tilt range: +/- 20 degrees</li> </ul> </li> <li>• Field of view (FoV) <ul style="list-style-type: none"> <li>◦ Horizontal FoV: 80 degrees</li> <li>◦ Vertical FoV: 48.8 degrees</li> </ul> </li> <li>• 1.0 m to infinity (wide) focus distance</li> <li>• F-value: 1.5</li> <li>• Camera control: Ethernet</li> <li>• Focus, white balance, and brightness: Automatic or manual</li> <li>• Video interfaces <ul style="list-style-type: none"> <li>◦ HDMI 1.4</li> <li>◦ 3G-SDI</li> </ul> </li> </ul>

Specification	Description
	<ul style="list-style-type: none"> <li>• Power <ul style="list-style-type: none"> <li>◦ 12V/3A</li> <li>◦ 100-120/200-240VAC, 50/60 Hz</li> </ul> </li> </ul> Network interfaces: One LAN/Ethernet (RJ-45) 10/100 Mbit

## Regulatory Compliance

- Directive 2014/35/EU (Low-Voltage Directive)
- Directive 2014/30/EU (EMC Directive) – Class A
- Directive 2014/53/EU (Radio Equipment Directive)
- Directive 2011/65/EU (RoHS)
- Directive 2002/96/EC (WEEE)
- NRTL approved (Product Safety)
- FCC CFR 47 Part 15B (EMC) – Class A

Please check the Product Approval Status Database at <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 2.

**Table 2.** Ordering Information

Product name	Part number	Compliance model number
<b>Cisco Room Kit Plus Precision 60 – GPL™ (for registration to Cisco TelePresence Video Communication Server, Cisco Unified Communications Manager, and third-party call control)</b> <ul style="list-style-type: none"> <li>• Cisco Spark Codec Plus</li> <li>• Cisco TelePresence Touch 10 Control Device</li> <li>• Cisco TelePresence Precision 60 Camera</li> </ul>	CS-KITP60-K9 CS-CODEC-PLUS+ CTS-CTRL-DVX-10 CTS-CAM-P60+	TTC7-25 TTC5-09 TTC8-07
<b>Cisco Room Kit Plus Precision 60 – NO RADIO</b> <ul style="list-style-type: none"> <li>• Cisco Spark Codec Plus – NO RADIO</li> <li>• Cisco TelePresence Touch 10 Control Device</li> <li>• Cisco TelePresence Precision 60 Camera</li> </ul>	CS-KITP60-NR-K9 CS-CODEC-PLUS-NR+ CTS-CTRL-DVX-10 CTS-CAM-P60+	TTC7-25 TTC5-09 TTC8-07
<b>Cisco Room Kit Plus Precision 60 – NO CRYPTO</b> <ul style="list-style-type: none"> <li>• Cisco Spark Codec Plus</li> <li>• Cisco TelePresence Touch 10 Control Device</li> <li>• Cisco TelePresence Precision 60 Camera</li> </ul>	CS-KITP60-K7 CS-CODEC-PL-NR-K7+ CTS-CTRL-DVX-10 CTS-CAM-P60+	TTC7-25 TTC5-09 TTC8-07
<b>Cisco Room Kit Plus Precision 60 – TAA compliant</b> <ul style="list-style-type: none"> <li>• Cisco Spark Codec Plus – TAA, NO RADIO, or Cisco Codec Plus – TAA</li> <li>• Cisco TelePresence Touch 10 Control Device</li> <li>• Cisco TelePresence Precision 60 Camera</li> </ul>	CS-KITP60-K9++ CS-CODEC-PLUS-NR++ CS-CODEC-PLUS++ CTS-CTRL-DVX-10 CTS-CAM-P60+	TTC7-25 TTC7-25 TTC5-09 TTC8-07
<b>Options</b>		
<b>Cisco TelePresence Table Microphone 20</b>	CTS-MIC-TABL20	
<b>Extension cable for Table Microphone 20</b>	CAB-MIC-T20EXT	
<b>Cisco Ceiling Microphone</b>	CTS-MIC-CLNG-G2	
<b>Shielded cable for ceiling mic (non-plenum rated)</b>	CAB-ETHRSHLD-10M	
<b>Wall mount kit for Codec Plus</b>	CS-KITPLUS-WMK	

Product name	Part number	Compliance model number
<b>8 m HDMI 2.0 certified cable</b>	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	
<b>Software options – ordered separately</b>		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-KIT-MS (L-ROOM-PAK)	
<b>Spares</b>		
Cisco Spark Codec Plus	CS-CODEC-PLUS=	TTC7-25
Cisco Spark Codec Plus – no radio, no crypto	CS-CODEC-PL-NR-K7=	TTC7-25
Cisco Spark Codec Plus – no radio	CS-CODEC-PLUS-NR=	TTC7-25
Power supply 12VDC 70W	PSU-12VDC-70W-GR=	
Cisco TelePresence Precision 60 Camera	CTS-CAM-P60=	TTC8-07

\*\* GPL = Global Price List

## Warranty Information

Cisco Spark Room Kit Plus Precision 60 Integrator Package has a 90-day limited liability warranty.

## Cisco Services and Support

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full business value of your Cisco collaboration investment by increasing business agility and network availability. This portfolio of services accelerates business innovation by harnessing the network as a powerful business platform. For more information about these services, please visit

<https://www.cisco.com/go/collaborationservices>.

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Cisco Systems, Inc.  
San Jose, CA

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