Cisco Spark Room Kit Series

Cisco Spark Room Kit Plus

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

Cisco Spark Room Kit Plus Overview

Cisco Spark[™] Room Kit Plus 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 medium to large-sized rooms.

The Room Kit Plus – comprising a powerful codec and a quad-camera bar with integrated speakers and microphones[*] – is ideal for rooms that seat up to 14 people. It offers sophisticated camera technologies that bring speaker-tracking and auto-framing capabilities to medium to large-sized rooms. The product is rich in functionality and experience but is priced and designed to be easily scalable to all of your conference rooms and spaces – whether registered on the premises or to Cisco Spark through the Cisco[®] Collaboration Cloud.

Figure 1.   Cisco Spark Room Kit Plus in Large Conference Room

[*] Integrated microphones for speaker tracking only

Cisco Spark Room Kit Plus Features and Benefits

Feature	Benefit

Smart meetings	• Brings intelligent views to medium to large-sized rooms with discreet, integrated cameras
	  ◦ Best overview: Automatically detects meeting participants and provides ideal framing
	  ◦ Speaker tracking: Detects and switches between active speakers and provides ideal framing
	• Great audio experience with integrated speakers and microphones (microphones for speaker tracking only)
	• Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device
	• Easily controlled by the Cisco TelePresence® Touch 10 or with a Cisco Spark app-enabled device
	• End-to-end security

Smart presentations	• Supports dual screens for video and content • Supports dual content sources for local meetings • 4K content sharing (local 30 fps; remote 5 fps) • Wired or wireless content sharing
Smart integrations	• Metrics: Counts people in the room, enabling analytics for better resource planning • Automatic screen/display integration through HDMI CEC • Supports Wi-Fi • In-room control: Control peripherals such as lights and blinds through the Cisco TelePresence Touch 10
Built for cloud and premises	• Flexibility to register on the premises or to the cloud through Cisco Spark • Hardware is optimized to run on a cloud platform, for great experiences in shared rooms and spaces with easy access to hosted conferences

Cisco Spark Room Kit Plus Prominent Feature/Differentiator

Bringing more intelligence to medium to large-sized rooms

The Cisco Spark Room Kit Plus is video innovation in a box, bringing more intelligence and usability to your medium to large-sized rooms 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 proliferating these innovations to medium and large team rooms in a cost-effective and simple way. With the Room Kit Plus, 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 Spark, 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

- **Smart presentations:** Dual screens, dual content sources, wireless sharing, and 4K content make for great presentations

- **Smart integrations:** People count for usage metrics and resource allocation; tight integrations with screens for enhanced functionalities

- **Registration flexibility:** Built for both cloud and on-premises deployment, protecting your investment
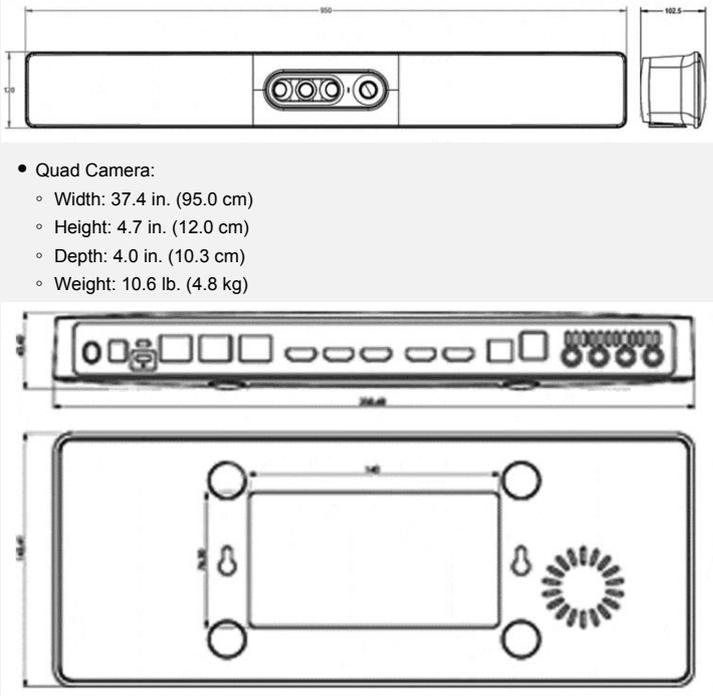
Cisco Spark Room Kit Plus Registration

License Level	Term
Cisco Spark Room Kit Plus MSRP Cisco Spark Service	Monthly or 1-, 2-, 3-, 4-, or 5-year options

Product Specifications

Table 1.   Specifications

Specification	Description
Software compatibility	• Cisco Collaboration Endpoint Software Version 9.0 or later, or Cisco Spark Room OS
Default components in Cisco Spark Room Kit Plus	• Cisco Spark Codec Plus • Cisco Spark Quad Camera • Cisco TelePresence Touch 10 • Wall mount for Quad Camera
Optional hardware components	• Table Microphone 20, Wall mount for Codec Plus, cables
Bandwidth	• Up to 6 Mbps point-to-point
Minimum bandwidth for resolution/frame rate	H.264 • 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
Video standards	• H.264, H.265
Video inputs	• One HDMI input supports formats up to maximum 1080p60 • Two HDMI inputs support formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60 • Consumer Electronics Control (CEC) 2.0
Video outputs	• Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60) • Live video resolutions (encode and decode) up to 1920 x 1080p60 (HD1080p) • Consumer Electronics Control (CEC) 2.0
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus
Audio features	• High-quality 20 kHz audio • Subwoofer line out for Quad Camera • Prepared for inductive loop (line out) • Automatic Gain Control (AGC) • Automatic noise reduction • Active lip synchronization
Audio inputs	• Three microphones, 4-pin mini-jack • Two audio in from HDMI
Audio outputs (external)	• 1 line out mini-jack (stereo) (Codec Plus) • 1 RCA output for subwoofer (Quad Camera) • 2 HDMI outputs • HDMI input #1 supports Audio Return Channel (ARC): Audio output to Quad Camera speakers
Speakers (internal)	• High-quality speakers • Frequency response: 70 Hz to 20 kHz • Max output level SPL 90dB
Speaker tracking	• 6-element microphone array for accurate speaker tracking
Dual stream	• H.239 (H.323) dual stream • Binary Floor Control Protocol (BFCP) (SIP) dual stream • Support resolutions up to 3840 x 2160p5 (4Kp5) and 1080p30
Wireless sharing	• Cisco Spark client (up to 3840 x 2160p5) • Cisco Intelligent Proximity client (up to 1920 x 1080p5)
Multipoint support	• 4-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 + content up to 4Kp5 　◦ 4-way resolution up to 720p30 + content up to 4Kp5 • Full individual audio and video transcoding • H.323/SIP/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 • Cisco Spark
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 (Quality of Service [QoS]) • IP-adaptive bandwidth management (including flow control) • Automatic gatekeeper discovery • Dynamic playout and lip-sync buffering • H.245 Dual-Tone Multi-frequency (DTMF) tones in H.323 • RFC 4733 DTMF tones in SIP • Date and time support using Network Time Protocol (NTP) • Media adaption and resilience • Uniform Resource Identifier (URI) dialing • Dynamic Host Configuration Protocol (DHCP) • 802.1X network authentication • 802.1Q Virtual LAN • 802.1p (QoS and Class of Service [CoS])
Cisco Unified Communications Manager	• Native registration with Cisco Unified Communications Manager • Requires Cisco Unified Communications Manager Version 9.1.2 or later with device pack for Room Kit
IPv6 network support	• Single call stack support for both H.323 and SIP • Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ • Support for both static and automatic IP configuration (stateless address auto configuration)
Security features	• Management using HTTPS and SSH • IP administration password • Menu administration password • Disable IP services • Network settings protection
Network interfaces codec medium	• One Ethernet (RJ-45) 10/100/1000 for LAN • One Ethernet (RJ-45) 10/100/1000 for direct pairing with camera • One Ethernet (RJ-45) 10/100/1000 with Power over Ethernet (PoE) for direct pairing with Touch 10 • Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz for LAN. 2x2 MIMO • Bluetooth 4.0 LE
Other interfaces	• USB 2.0 port, uUSB, factory reset pinhole
Power supplies (2)	• 100 to 240 VAC, 50/60 Hz, 12V DC input • Average 20 W, peak 70W • Quad camera must be used with power supply FSP FSP070-AHAN2 or AcBel ADF019
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% to 90% (noncondensing)
Locking mechanism	• Kensington security lock

Specification	Description

Dimensions	
	• 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)
	
	• Codec Plus:
	  ◦ Width: 14.1 in. (35.9 cm)
	  ◦ Height: 1.7 in. (4.3 cm)
	  ◦ Depth: 5.6 in. (14.3 cm)
	  ◦ Weight: 3.9 lb. (1.77 kg)

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) • 5120 x 2880 pixel resolution • Auto focus, brightness, and white balance • Focus distance 1 m to infinity

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
Cisco Spark Room Kit Plus – MSRP* (for Cisco Spark registration) • Cisco Spark Codec Plus • Cisco Spark Quad Camera • Cisco TelePresence Touch 10 Control Device • MSRP Cisco Spark Service	CS-KITPLUS-MSRP-K9 CS-CODEC-PLUS+ CS-QUADCAM+ CTS-CTRL-DVX-10 A-SPK-SH-RMK (A-SPK-SH)	TTC7-25 TTC8-10 TTC5-09
Cisco Spark Room Kit Plus – GPL** (for registration to VCS, UCM and 3rd party call control) • Cisco Spark Codec Plus • Cisco Spark Quad Camera • Cisco TelePresence Touch 10 Control Device	CS-KITPLUS-K9 CS-CODEC-PLUS+ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC8-10 TTC5-09
Cisco Spark Room Kit Plus – NO RADIO • Cisco Spark Codec Plus – NO RADIO • Cisco Spark Quad Camera • Cisco TelePresence Touch 10 Control Device	CS-KITPLUS-NR-K9 CS-CODEC-PLUS-NR+ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC8-10 TTC5-09
Cisco Spark Room Kit Plus – NO CRYPTO • Cisco Spark Codec Plus • Cisco Quad Camera • Cisco TelePresence Touch 10 Control Device	CS-KITPLUS-K7 CS-CODEC-PL-NR-K7+ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC8-10 TTC5-09
Cisco Spark Room Kit Plus – TAA compliant • Cisco Spark Codec Plus – TAA, NO RADIO, or • Cisco Spark Codec Plus – TAA • Cisco Quad Camera • Cisco TelePresence Touch 10 Control Device	CS-KITPLUS-K9++ CS-CODEC-PLUS-NR++ CS-CODEC-PLUS++ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC7-25 TTC8-10 TTC5-09
Options		
Cisco Table Microphone 20	CTS-MIC-TABL20	
Extension cable for Table Microphone 20	CAB-MIC20-EXT	
Cisco Ceiling Microphone	CTS-MIC-CLNG-G2	
Shielded cable for Ceiling Mic (non-plenum rated)	CAB-ETHRSHLD-10M	
Wall Mount Kit for Codec Medium	CS-KITPLUS-WMK	
8 m 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-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-KIT-MS (L-ROOM-PAK)	
Spares		
Cisco Spark Codec Plus	CS-CODEC-PLUS=	
Cisco Spark Codec Plus – no radio, no crypto	CS-CODEC-PL-NR-K7=	

Product Name	Part Number	Compliance Model Number
Cisco Spark Codec Plus – no radio	CS-CODEC-PLUS-NR=	
Cisco Quad Camera	CS-QUADCAM=	
Power supply 12VDC 70W	PSU-12VDC-70W-GR=	

* MSRP = Manufacturer's Suggested Retail Price
** GPL = Global Price List

Warranty Information

Cisco Spark Room Kit Plus 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.

Cisco Capital

Financing to help you achieve your objectives

Cisco Capital® can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. Learn more.

Custom Call to Action

- Learn more about Cisco Spark Room Kit Plus.
- Download the Cisco Spark app.