Cisco Spark Room Series

* Cisco Spark Room 70 Single

* Cisco Spark Room 70 Dual

Cisco Spark Room 70 is the flagship video collaboration product within the Cisco Spark Room Series portfolio. The Room 70 is available in two configurations: Room 70 Single (70S) with one 70" LED screen for a people-focused experience; Room 70 Dual (70D) with two 70" LED screens for a people-focused and people/content-focused experience. The systems combine beautiful design and powerful functionality into an all-in-one solution for medium-to-large rooms. Room 70 will transform your meeting spaces into a video collaboration hub - whether for connecting teams across the globe or for local meetings.

Cisco Spark Room 70 overview

Cisco Spark[TM] Room 70 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 70 – comprising a powerful codec, a quad-camera, and 70" single or dual 4K display(s) 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.

* Integrated microphones for speaker tracking only

Figure 1.   Cisco Spark Room 70 Dual and Cisco Spark Room 70 Single on Free-standing Floor Stand

Cisco Spark Room 70 features and benefits

Feature	Benefit
Design Features	• One of the most powerful and feature-rich video systems available with the ultimate in video and audio quality • The next generation HD video collaboration codec • The next generation HD fully automatic camera • Everything you need in one unit (screens, speakers, codec, camera, touch user interface, microphones, mounting) • Wall-mount or floor stand (2 floor stand options included: Freestanding and wall-secured floor stand)
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 external microphones • Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device • Easily controlled by the Cisco 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 • 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

Figure 2.   Cisco Spark Room 70 in large conference room

Cisco Spark Room 70 prominent feature/differentiator

Bringing more intelligence to medium to large-sized rooms

The Cisco Spark Room 70 is video innovation in an easy to install all in one unit, bringing more intelligence and usability to your medium to large-sized 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 70, Cisco is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. And when registered to the Cisco Collaboration Cloud, 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 70 registration

License Level	Term
Cisco Spark Room 70 MSRP Cisco Spark Service	Monthly or 1-, 2-, 3-, 4-, or 5-year options

Product specifications
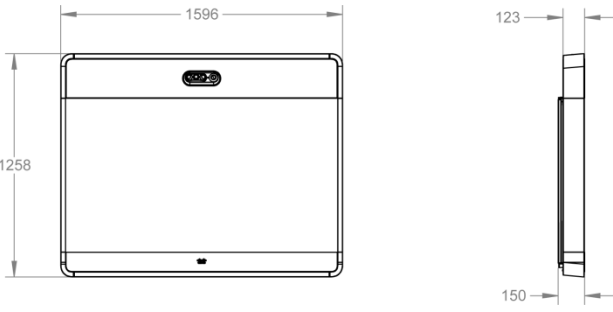
Table 1.   Specifications

Specification	Description	
Software compatibility	• Cisco Collaboration Endpoint Software Version 9.2 or later, or Cisco Spark Room OS	
Default components in Cisco Spark Room 70	• Cisco Spark Codec Plus for Room 70 • Cisco Quad camera • Loudspeakers • Cisco Touch 10 control unit • Mounting option – Floor stand or wall mount • 2x Table Microphone 20 • 2x Presentation cable (HDMI – HDMI), LAN cable and Power cable	

Displays	Cisco Spark Room 70S
	• 70-inch TFT-LCD monitor, edge-lit LED
	• Resolution: 3840 x 2160 (16:9)
	• Contrast ratio: Typical 4000:1
	• Viewing angle:
	  ◦ +/- 88 deg (typical)
	  ◦ +/- 70 deg (minimum)
	• Response time: Typical 6 ms
	• Brightness:
	  ◦ 230 cd/m2 @ 7.200K (default)
	  ◦ 260 cd/m2 @ 10.000K
		Cisco Spark Room 70D
		• 2x 70-inch TFT-LCD monitor, edge-lit LED
		• Resolution: 3840 x 2160 (16:9)
		• Contrast ratio: Typical 4000:1
		• Viewing angle:
		  ◦ +/- 88 deg (typical)
		  ◦ +/- 70 deg (minimum)
		• Response time: Typical 6 ms
		• Brightness:
		  ◦ 230 cd/m2 @ 7.200K (default)
		  ◦ 260 cd/m2 @ 10.000K

Optional hardware components	• Additional Table Microphone 20, Ceiling Mic	

Specification	Description
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) (In use) • 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 • 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)
Audio system	• Integrated full-range multichannel and bass speakers • Frequency response: 45 Hz to 20 kHz • Max output level SPL 104dB @ 1m
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

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

Specification	Description
	• 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])

Call Control	• Cisco Unified Communications Manager (CUCM)
	  ◦ Native registration with CUCM
	  ◦ Requires CUCM Version 9.1(2) or later with device pack for Room 70
	• Cisco Video Communication Server (VCS)
	  ◦ Native registration with VCS
	• Cisco Spark Service
	• Third-party H.323 Gatekeepers and standards-based SIP proxies

Cisco TelePresence Management Suite (TMS)	• Support for Room 70 beginning with version TMS 15.6.1 (available January 2018)
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	• Autosensing power supply • 100-240 VAC, 50/60 Hz • Dual-screen system: Average 470 W[*] • Single-screen system: Average 258 W[*] [*] Power consumption under normal operating conditions as defined in IEC 60950-1
Operating temperature and humidity	• 0°C to 35°C (32°F to 95°F) ambient temperature • 20% to 90% Relative Humidity (RH) • Max operating altitude: 3000meter (9842ft.)
Storage and transport temperature	• -20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (noncondensing)

Specification	Description
Dimensions	 • Cisco Spark Room 70D with floor stand: ◦ Width: 3169 mm ◦ Height: 1920 mm ◦ Depth: 920 mm ◦ Weight, monitor module: 177 kg ◦ Weight, wall mount: 35 kg ◦ Weight: 214 kg • Cisco Spark Room 70S with floor stand: ◦ Width: 1596 mm ◦ Height: 1920 mm ◦ Depth: 1020 mm ◦ Weight, monitor module: 89 kg ◦ Weight, wall mount: 26 kg ◦ Weight: 113 kg • Cisco Spark Room 70D with wall mount: ◦ Width: 3169 mm ◦ Height: 1258 mm ◦ Depth: 150 mm

Specification	Description
	◦ Weight, monitor modules: 177 kg
	◦ Weight, wall mount: 40 kg
	◦ Weight: 220 kg
	• Cisco Spark Room 70S with wall mount:
	◦ Width: 1596 mm
	◦ Height: 1258 mm
	◦ Depth: 150 mm
	◦ Weight, monitor module: 89 kg
	◦ Weight, wall mount: 26 kg
	◦ Weight: 115 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 2014/30/EU (EMC Directive)
- Directive 2014/53/EU (Radio Directive)
- Directive 2014/35/EU (Low-Voltage Directive)
- Directive 2011/65/EU (RoHS)
- Directive 2002/96/EU (WEEE)
- Standard EN 55022:2010, Class A
- Standard EN 55032:2012,Class A
- Standard EN 55024:2010
- Standard EN 61000-3-2:2014
- Standard EN 61000-3-3:2013

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
DUAL SCREEN		
Cisco Spark Room 70D – Subscription pricing (MSRP for cloud registration)	CS-ROOM70D-MSRP-K9	TTC-60-24
Cisco Spark Room 70D – Upfront pricing (GPL)	CS-ROOM70D-K9	TTC-60-24
Cisco Spark Room 70D – NO RADIO	CS-ROOM70D-NR-K9	TTC-60-24
Cisco Spark Room 70D – NO CRYPTO – NO RADIO	CS-ROOM70D-NR-K7	TTC-60-24
SINGLE SCREEN		
Cisco Spark Room 70S – Subscription pricing (MSRP for cloud registration)	CS-ROOM70S-MSRP-K9	TTC-60-24
Cisco Spark Room 70S – Upfront pricing (GPL)	CS-ROOM70S-K9	TTC-60-24
Cisco Spark Room 70D – NO RADIO	CS-ROOM70S-NR-K9	TTC-60-24
Cisco Spark Room 70D – NO CRYPTO – No RADIO	CS-ROOM70S-NR-K7	TTC-60-24
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	
8 m HDMI 2.0 certified cable	CAB-PRES-2HDMI-GR	
Software options – ordered separately		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-ROOM70-MS (L-ROOM-PAK)	
Spares		
See separate spare-part document	https://www.cisco.com/c/dam/en/us/td/docs/telepresence/endpoint/room-series/spare-parts-and-cables/room-70-spare-parts-list.pdf	

Warranty information

Cisco Spark Room 70 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 70.
- Download the Cisco Spark app.

Printed in USA

C78-739893-02   12/17