

Crestron RL® 2 Group Collaboration System for Skype® for Business, Huddle Room Package

- > A full-featured, simple to use group collaboration system based on Skype® for Business
- > Works with any compatible touch screen display to provide a turnkey tabletop solution for huddle rooms and offices
- > Enables interactive collaboration from anywhere using any device
- > Easy to specify and install — requires no custom design or programming
- > Low cost of ownership — no MCUs or gateways needed
- > Tabletop touch screen console affords easy, intuitive operation
- > Allows customizable control of room lighting, shades, AV, and other equipment^[4]
- > Includes a high-definition camera and 360° tabletop speakerphone
- > Allows customization using Crestron and Crestron-approved third-party accessories
- > Provides auto-switching HDMI®, VGA, and DM 8G+® content source inputs
- > Supports audio as well as video from content sources
- > Allows input expansion using DigitalMedia™ transmitters and switchers^[3]
- > Integrates with Crestron Fusion® Cloud to support enterprise-wide room monitoring^[5]

Crestron RL® 2 is an advanced group collaboration solution for conference rooms and huddle spaces that combines Crestron® hardware with Skype® for Business software. Skype for Business (formerly Microsoft® Lync®) offers an enterprise-ready unified communications platform capable of delivering presence, instant messaging, voice, and video across the network or Internet using computers and mobile devices. Crestron RL 2 extends the Skype for Business experience to the conference room so groups can communicate and collaborate in real time from multiple locations. Crestron RL 2 combines the intuitive room control solutions of Crestron with the unified communication and collaboration features of Skype for Business.

Easy to Use

With one touch of the touch screen, anyone can walk into the room and instantly start a collaboration session. Crestron RL 2 lets you share your desktop with local and remote participants, view and annotate over a PowerPoint® presentation, and use the room's main touch display as an interactive whiteboard to sketch out ideas — all in real time. Remote participants can join from their personal computers, mobile devices, and other Crestron RL 2 systems. Crestron RL 2 lets everyone share their ideas and documents collaboratively — anytime, anywhere, with any device.

Easy to Purchase and Install

The Crestron RL 2 huddle room system package (CCS-UC-200-HUD-0 KIT) can turn a small meeting room, office, or huddle area into a collaborative meeting space. It works with a third-party touch screen display and includes everything required for a turnkey solution. There's no complicated design or programming required. It connects over the corporate LAN, so there are no additional infrastructure expenses such as MCUs or gateways. And, if your organization already uses Skype for Business, there are no additional licenses or fees required.

Installation involves simply mounting the codec beneath the table, connecting the display (display not included), attaching the camera to the top of the display, placing the speakerphone and touch screen console on the table, and plugging in the power and LAN cables. The wide-angle HD camera provides remote participants with a view of the local participants. The speakerphone provides 360 degree audio coverage for all the local participants around the table. Two mounting kits are included to allow the system codec to be installed under the table or in a 19" equipment rack.^[1]

NOTE: See also the [CCS-UC-200](#) and [CCS-UC-200-WMT](#) for other room types and system configurations.

Enhanced Connectivity, Integration, and Control

Crestron RL 2 included a number of features not found in other Skype for Business based systems, affording several powerful ways to use and customize your system:

- **HD Display** — Crestron RL 2 is compatible with a variety of high-definition touch screen displays. USB HID touch overlay support enables annotation and other interactive presentation capabilities right on the main display.
- **Tabletop Touch Screen Console** — The included 10" touch screen console provides an intuitive user interface for managing group collaboration sessions. It's so simple to use, anyone can instantly start a session with just one touch. The touch screen console can also be custom programmed to control room lighting, shades, climate, and AV equipment (see *Control System Integration* below).
- **USB HD Camera** — The included camera provides remote participants with a high-definition view of the room through an extra-wide 90 degree diagonal field of view. Crestron RL 2 is also compatible with a range of Crestron and Crestron-approved third-party camera options.
- **360° Speakerphone** — The CCS-UC-200-HUD package comes with an integrated 360 degree tabletop USB microphone and speaker that's capable of achieving excellent coverage for participants around a typical huddle room table.^[2]
- **Auto-Switching "Content" Inputs** — The HDMI®, VGA, and **DM 8G+®** inputs allow versatile connectivity for computers and other content source devices. Automatic switching between sources simplifies operation.
- **DigitalMedia™ System Integration** — The DM 8G+ input facilitates input expansion and signal extension using any Crestron DM 8G+ transmitter or switcher. An assortment of under-table or in-wall transmitters and switchers is offered to provide input connectivity for content sources wherever it's needed. DM 8G+ also allows for connection to a centralized DM® switcher, enabling access to shared media sources and cameras anywhere in the building.^[3]
- **Content Audio Support** — In addition to video, Crestron RL 2 accepts audio input signals via its HDMI, analog audio, and DM 8G+ inputs.
- **Control System Integration** — Complete control over room lighting, shades, AV, and other equipment can be enabled right on the tabletop touch screen console through integration with a Crestron control system.^[4]

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- **Enterprise Monitoring** — Crestron RL 2 has the ability to communicate directly with the [Crestron Fusion® Cloud](#) Enterprise Management Service, allowing it to be monitored from a centralized help desk alongside every other huddle room across the enterprise. Room scheduling and other advanced capabilities can be enabled through integration with a control system.^[4,5]

Optional Crestron® Accessories

The following Crestron products are just some of the many options available for use with the Crestron RL 2 system:

- [DM-TX-4K-100-C-1G](#) Wall Plate 4K DigitalMedia 8G+® Transmitter 100
- [DM-TX-200-C-2G](#) Wall Plate DigitalMedia 8G+ Transmitter 200
- [DM-TX-4K-202-C](#) 4K DigitalMedia 8G+ Transmitter 202
- [DM-TX-4K-302-C](#) 4K DigitalMedia 8G+ Transmitter 302
- [DM-TX-201-C](#) DigitalMedia 8G+ Transmitter 201
- [DM-TX-401-C](#) DigitalMedia 8G+ Transmitter 401
- [DMPS3-4K-100-C](#) 3-Series® 4K DigitalMedia Presentation System 100
- [DMPS3-4K-150-C](#) 3-Series 4K DigitalMedia Presentation System 150
- [USB-EXT-DM](#) USB over Ethernet Extender with Routing
- [HD-CONV-USB-100](#) HD to USB Video Converter
- [TSD-2020](#) 20" HD Touch Screen Display

Third-Party Accessories

The following third-party manufacturers offer accessories that have been tested and approved by Crestron for use with Crestron RL 2:

- [ClearOne®](#) – CHAT® 170 Speakerphone
- [LG®](#) – 43SE3B & KT-T430 43" IPS Display w/Touch Overlay
- [Logitech®](#) – ConferenceCam CC3000e, PTZ Pro Camera
- [NEC®](#) – V423-TM & V652-TM Touch Integrated 42" and 65" Large Screen Displays
- [NEC](#) – E705 & OL-E705 70" Display w/10 Point Infrared Touch Overlay
- [Panasonic®](#) – AW-HE2 HD Integrated Camera
- [Polycom®](#) – CX5100 & CX5500 Unified Conference Stations
- [Samsung®](#) – DM-D Series 55", 65", and 75" Displays w/Touch Overlay
- [Samsung](#) – ED-D Series 55" and 75" Displays w/Touch Overlay
- [Samsung](#) – DM-E Series 75" E-Board Display for Business
- [Sharp®](#) – AQUOS BOARD® 60", 70", and 80" Interactive Display Systems
- [Sharp](#) – PN-K322B 32" Touchscreen Monitor
- [Sharp](#) – PN-60TW3 & PN-70TW3 60" and 70" Touchscreen Monitors
- [Sharp](#) – PN-80TC3 80" Touchscreen Monitor
- [Shure®](#) – Microflex® MX390 Series Boundary Microphones
- [Vaddio™](#) – ClearVIEW HD-USB Camera, RoboSHOT™ 12 HD PTZ Camera, AV Bridge

NOTE: Crestron authorized integrators, please see [Crestron True Blue Online Help Answer ID: 5532](#) for additional information about these and other third-party accessories.

SPECIFICATIONS

Included Components

NOTE: For additional specifications and other details, please refer to the individual spec sheet for each component.

Package Model: CCS-UC-200-HUD-0 KIT Single Display Huddle Room System (Display not included)

Contents: (1) CCS-UC-CODEC-200 Crestron RL 2 System Codec;
(1) TS-1051-C-B-S 10.1" Tabletop Touch Screen Console;
(1) CCS-CAM-USB-F-100-SHROUD HD Camera;
(1) CCS-MIC-SPK-USB-200 ClearOne CHAT 170 Speakerphone;
(1) CCS-BRKT-200-UTK Under-Table Mounting Kit;
(1) CCS-BRKT-200-RMK Rack Mount Kit;
(Lot) Cables

System Connections

Content AV Inputs: (1 each) HDMI, VGA, unbalanced stereo analog audio, and DM 8G+;

(1) 20 ft (6.1 m) HDMI cable included;
(1) 25 ft (7.6 m) VGA/audio cable included

Touch Display Video Outputs: (2) HDMI (DVI compatible);
(1) 20 ft (6.1 m) HDMI cable included

Tabletop Touch Screen Console: (1) DM 8G+ with PoDM;
25 ft (7.6 m) cable included^[1]

USB: (2) USB 3.0 and (6) USB 2.0 host ports for camera, touch display, speakerphone, and mouse/keyboard^[6];
USB cables included for camera, touch display, and speakerphone^[1]

LAN: (1) 10Base-T/100Base-TX/1000Base-T Ethernet

Codec Power: 2 Amps (maximum) @ 100-240 Volts AC, 50/60 Hz;
External power pack, model PW-12125DU, included

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MODELS & ACCESSORIES

Available Models

CCS-UC-200-HUD-0 KIT: Crestron RL® 2 Group Collaboration System for Skype® for Business, Huddle Room, (Display not included)

Included Accessories

CCS-UC-CODEC-200: Crestron RL® 2 System Codec (Qty. 1 included)
TS-1051-C-B-S: 10.1" Tabletop Touch Screen Console for Crestron RL® 2, Black Smooth (Qty. 1 included)
CCS-CAM-USB-F-100-SHROUD: HD Camera for Crestron RL® 2 (Qty. 1 included)
CCS-MIC-SPKR-USB-200: ClearOne® CHAT® 170 Speakerphone (Qty. 1 included)
CCS-BRKT-200-RMK: Rack Mount Kit for CCS-UC-CODEC-200 (Qty. 1 included)
CCS-BRKT-200-UTK: Under-Table Mounting Kit for CCS-UC-CODEC-200 (Qty. 1 included)

Available Accessories

DM-TX-4K-100-C-1G: Wall Plate 4K DigitalMedia 8G+® Transmitter 100
DM-TX-200-C-2G: Wall Plate DigitalMedia 8G+® Transmitter 200
DM-TX-4K-202-C: 4K DigitalMedia 8G+® Transmitter 202
DM-TX-4K-302-C: 4K DigitalMedia 8G+® Transmitter 302
DM-TX-201-C: DigitalMedia 8G+® Transmitter 201
DM-TX-401-C: DigitalMedia 8G+® Transmitter 401
DMPS3-4K-100-C: 3-Series® 4K DigitalMedia™ Presentation System 100
DMPS3-4K-150-C: 3-Series® 4K DigitalMedia™ Presentation System 150
DM-CBL-8G-NP: DigitalMedia 8G™ Cable, non-plenum
DM-CBL-8G-P: DigitalMedia 8G™ Cable, plenum
DM-8G-CONN: Connector for DM-CBL-8G DigitalMedia 8G™ Cable
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN
DM-8G-CONN-WG: Connector with Wire Guide for DM-CBL-8G DigitalMedia 8G™ Cable
DM-8G-CRIMP-WG: Crimping Tool for DM-8G-CONN-WG
TSD-2020: 20" HD Touch Screen Display
HD-CONV-USB-100: HD to USB Video Converter
USB-EXT-DM: USB over Ethernet Extender with Routing

Notes:

1. If necessary, the touch screen console cable may be extended to up to 200 ft (61 m) using Crestron **DM-CBL-8G** cable. Also, the touch display, speakerphone, and camera cables may be extended using Crestron **USB-EXT-DM** USB extenders. A separate USB extender, consisting of (1) host module and (1) device module, is required for each USB device (except for touch displays, which may share a single USB extender). The USB-EXT-DM is for USB 1.0 and 2.0 devices only. USB signal extension may be via Ethernet or a dedicated CAT5e (or better) cable. All extra cables, connectors, and USB extenders are sold separately.
2. When using the included speakerphone, Crestron part # **CCS-MIC-SPK-USB-200** (ClearOne CHAT 170), all other mic inputs and audio outputs on the system codec are disabled, and no other microphones or speaker devices may be connected.
3. DigitalMedia transmitters, switchers, cables, and related accessories sold separately.
4. Crestron control system and custom programming sold separately.
5. Crestron Fusion Cloud sold separately.
6. USB mouse and keyboard not included; required for setup only.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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