

MMX8x8-HDMI-4K-A-USB20 is an integrator-friendly, 8x8 matrix switcher for HDMI video and USB2.0 peripherals.

It has eight HDMI inputs and eight independent HDMI outputs, as well as a USB 2.0 layer that provides the switching of four external USB peripherals (such as webcam, speakerphone, multitouch display, etc.) to four independent computers or laptops. The Power Switch Delay that cuts power for 2 seconds when switching between hosts, allowing the device to recognize the change of USB host.

The MMX8x8-HDMI-4K-A-USB20 offers 4+2 balanced, bi-directional, 5-pole Phoenix audio ports for embedding and de-embedding audio signals.

Unique USB functions allow seamless integration in Unified Communication and small Video Conference rooms. The "USB 5V Host Detect" function recognizes when a USB cable is connected and performs condition triggering for the Event Manager. For example, with USB devices to the last connected USB laptop if configured accordingly. The "USB 5V PWR Switch" turns ON or OFF peripherals' 5Volt over the USB cable.

One of the USB-A type connectors is capable to power connected devices with 1000mA at 5V, such as the Huddly Go and Huddly IQ cameras, that require at least 900mA.

"USB Disconnect" helps Cisco Room Kit Mini and Touch 10 control unit to switch between Webcam and Webex video conferencing operation modes. It also solves the problem when Cisco Touch 10 gets locked in USB webcam operation and touch buttons become unavailable.

MMX8x8-HDMI-4K-A-USB20 and built-in Event Manager automation makes the meeting room easy, intuitive and hassle-free: it detects powered computers, turns on the screen and camera, and prepares for the next call. Based on the specific configuration it allows auto-switch for USB and video signals. In other cases USB may not follow video, according to the application.

The MMX8x8-HDMI-4K-A-USB20 seamlessly integrates with Cisco rooms, and also offers users unprecedented flexibility to utilize the Cisco Webex Room kits as a USB camera if they prefer to use a 3rd party video conference platform.

Features

- Supports HDMI 4K signal formats (4K UHD @30Hz RGB 4:4:4 or @60Hz YUV 4:2:0, up to 9 Gbps)
- Multiple USB 2.0 connectivity for any type of USB devices (Camera, speakerphone, touch monitor, USB-HID devices etc...)
- Separate USB 2.0 Host switching layer for multiple USB hosts and USB devices (Camera; Touch sensor; Speakerphone, etc.)
- 4 x USB 2.0 Device peripherals
- 4 x USB 2.0 Host computers
- USB Host switching is compatible with Windows, MacOS and any other operating system
- "Host5vSense" triggers Event Manager
- "Device5vEnable" function turns ON or OFF peripherals' 5 V USB power
- "HostSelect 0" disconnects Cisco Room Kit Mini's webcam
- USB-C Laptop Support (With external adaptors)
- Advanced control feature pack for 3rd party video conference collaboration
- Audio embedding and de-embedding
- 5-pole Phoenix balanced analog audio connectors
- Advanced EDID Management
- Command injection on RS-232 and IR ports
- Cisco VC room integration compatibility
- Built-in Event Manager automation feature
- No signal latency, zero frame delay

Applications

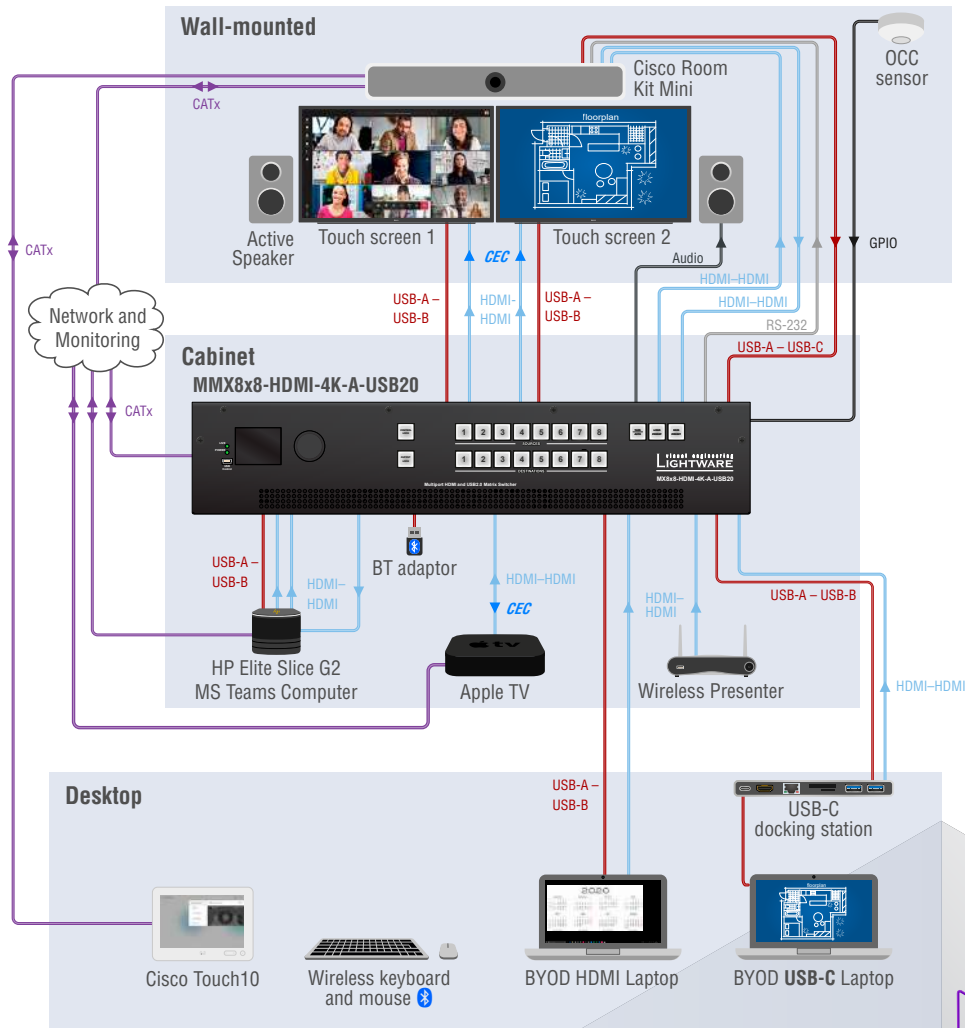
- Meeting and conference rooms
- Huddle Rooms with Soft VC

Connectors

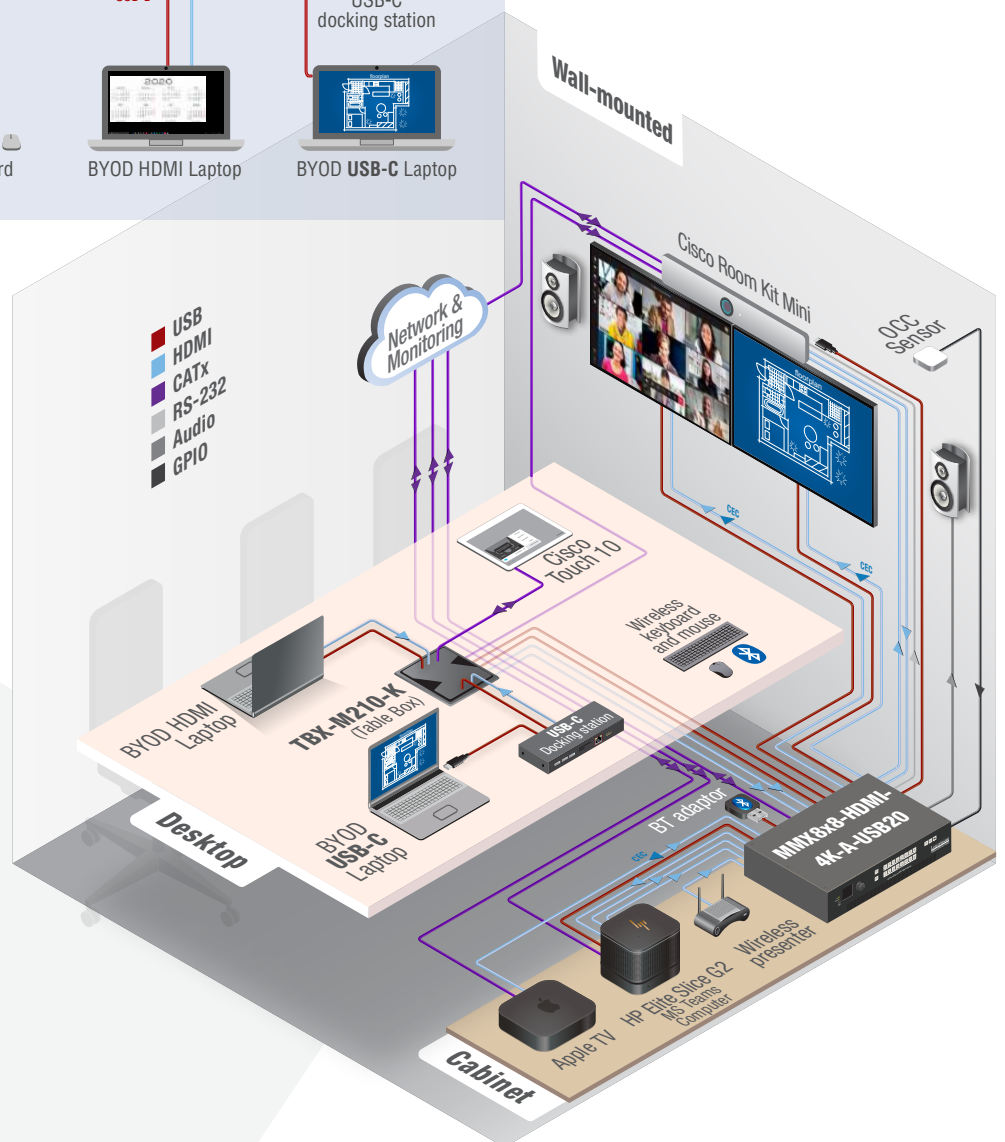
Digital video inputs:	8 x HDMI connector
Digital video outputs:	8 x HDMI connector
Balanced audio I/O ports:	6 x 5-pole Phoenix (Euroblock) connector
Ethernet:	3 x RJ45
USB device:	4 x USB-A
USB power:	1 x 1000mA & 3 x 500mA
USB host:	4 x USB-B
USB control:	mini-USB-B connector
Control:	6 x GPIO, 8-pole Phoenix (Euroblock)
IR in and out:	3.5 mm jack
Serial port:	2 x RS-232 Serial Port
Serial/IR configurable port:	2 x 2-pole Phoenix connector
Power:	standard IEC connector (100-240 V, 50 or 60 Hz)

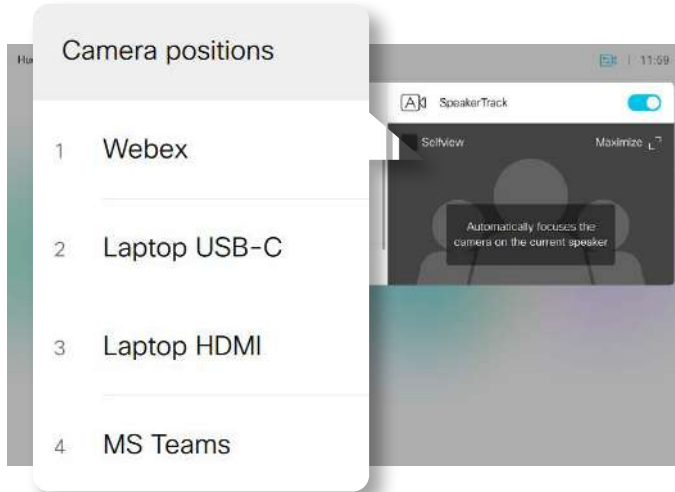


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Small Room Application





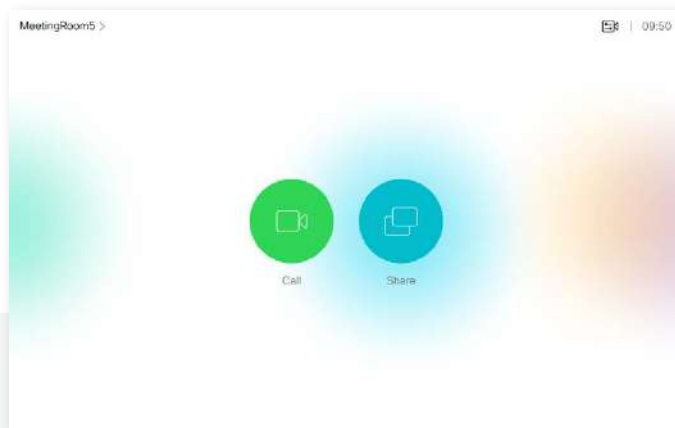
The Camera Selector Icon on the top right corner of the screen provides access to the Camera Selector Menu.

In the Camera Selector Menu users can choose from a list of pre-defined and per-configured camera options.

Once the required camera is selected, the Lightware matrix sets up the system to be immediately ready for collaboration on the chosen VC platform.



When the Webex RoomKit Mini is utilized as a USB camera, the 'Do-not-disturb' screen is displayed on the Touch10 to advise users about the current status.



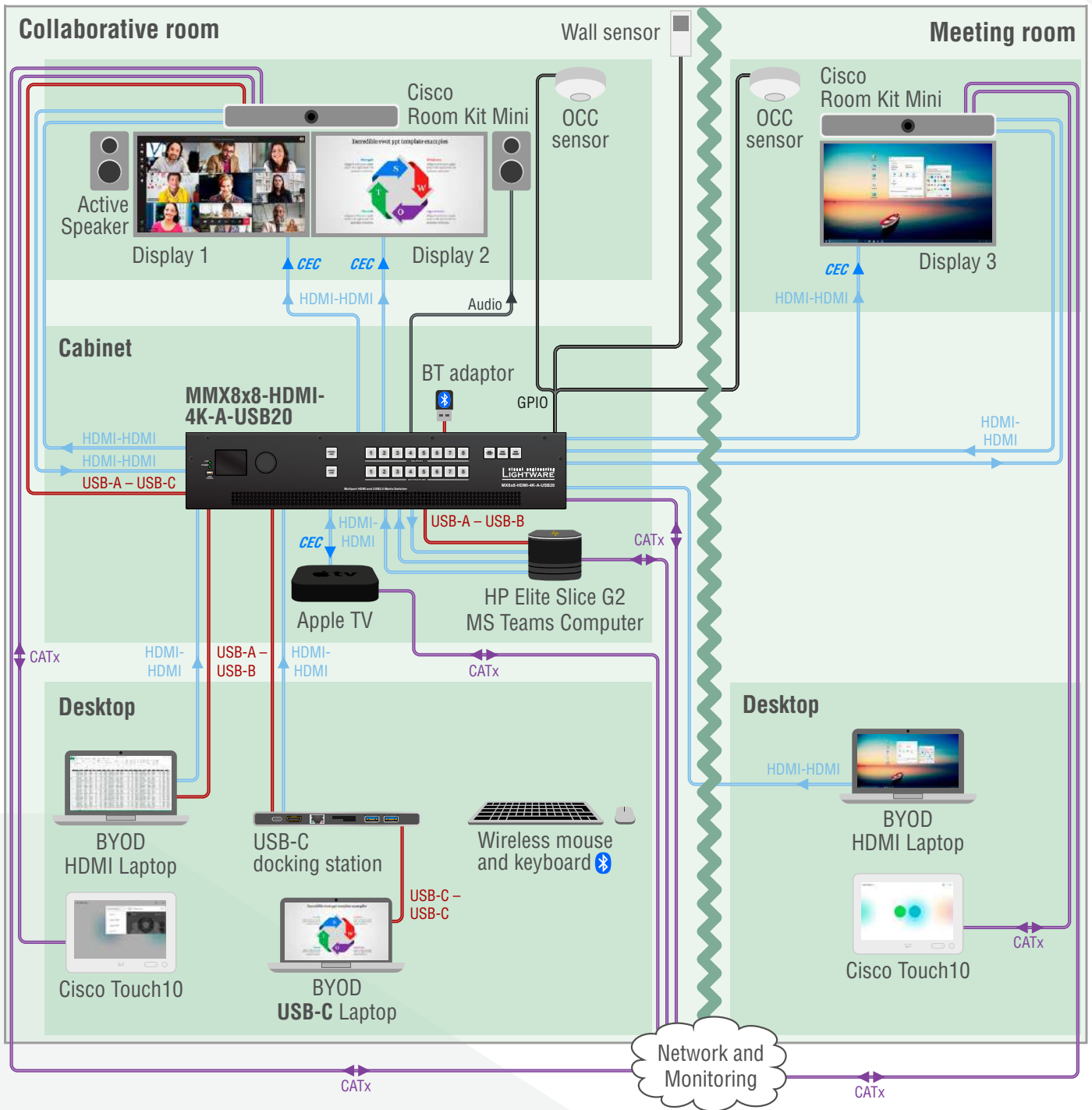
Upon tapping the Touch10, users are presented with the Main Screen in Normal Mode where they can either initiate a call using the Cisco Webex platform or enter the Share Menu to choose from additional input options.



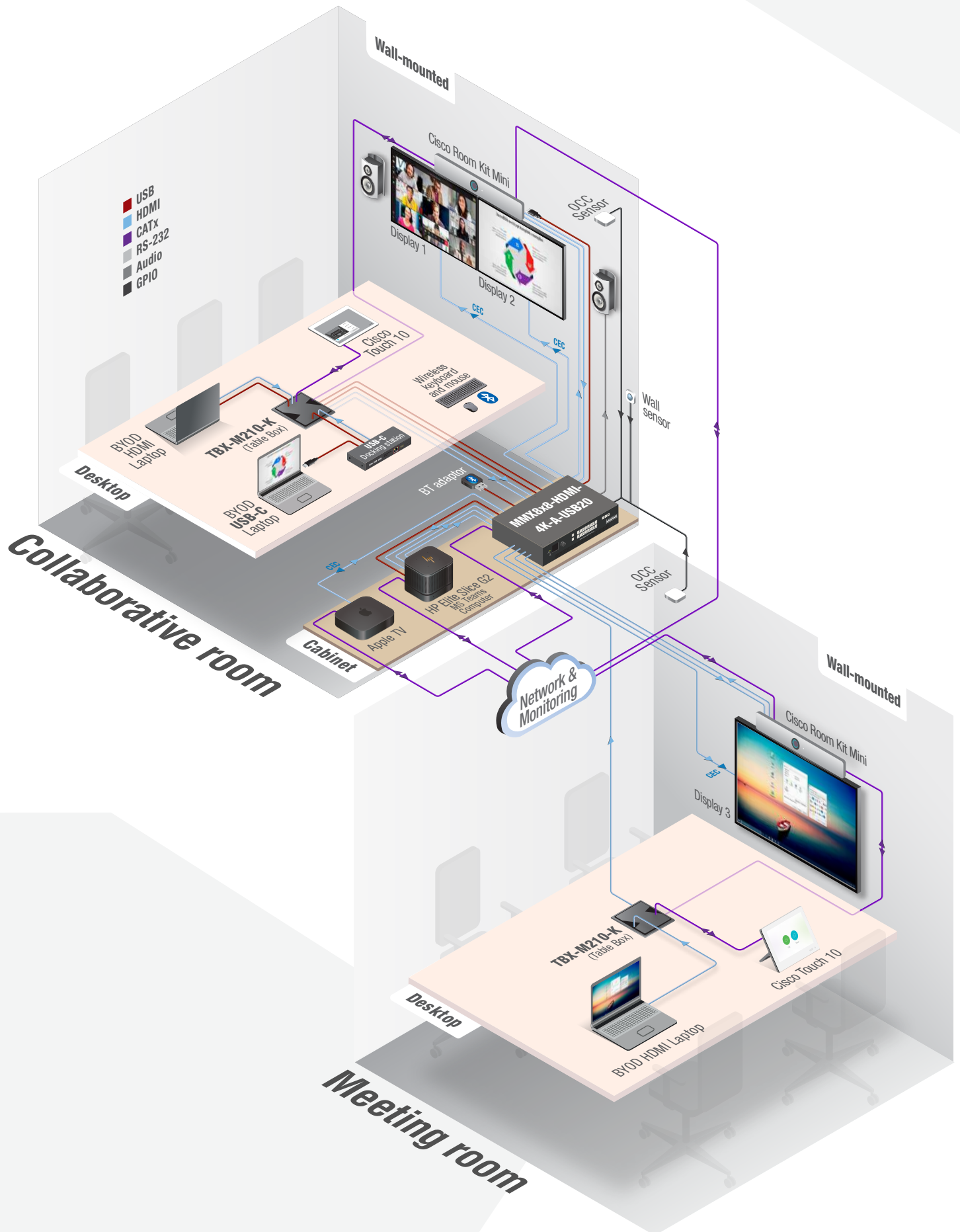
The desired input device can also be chosen inside the Share Screen Menu where all available options are displayed.

The currently active input device is highlighted in green and its content is displayed on the room's main screen.

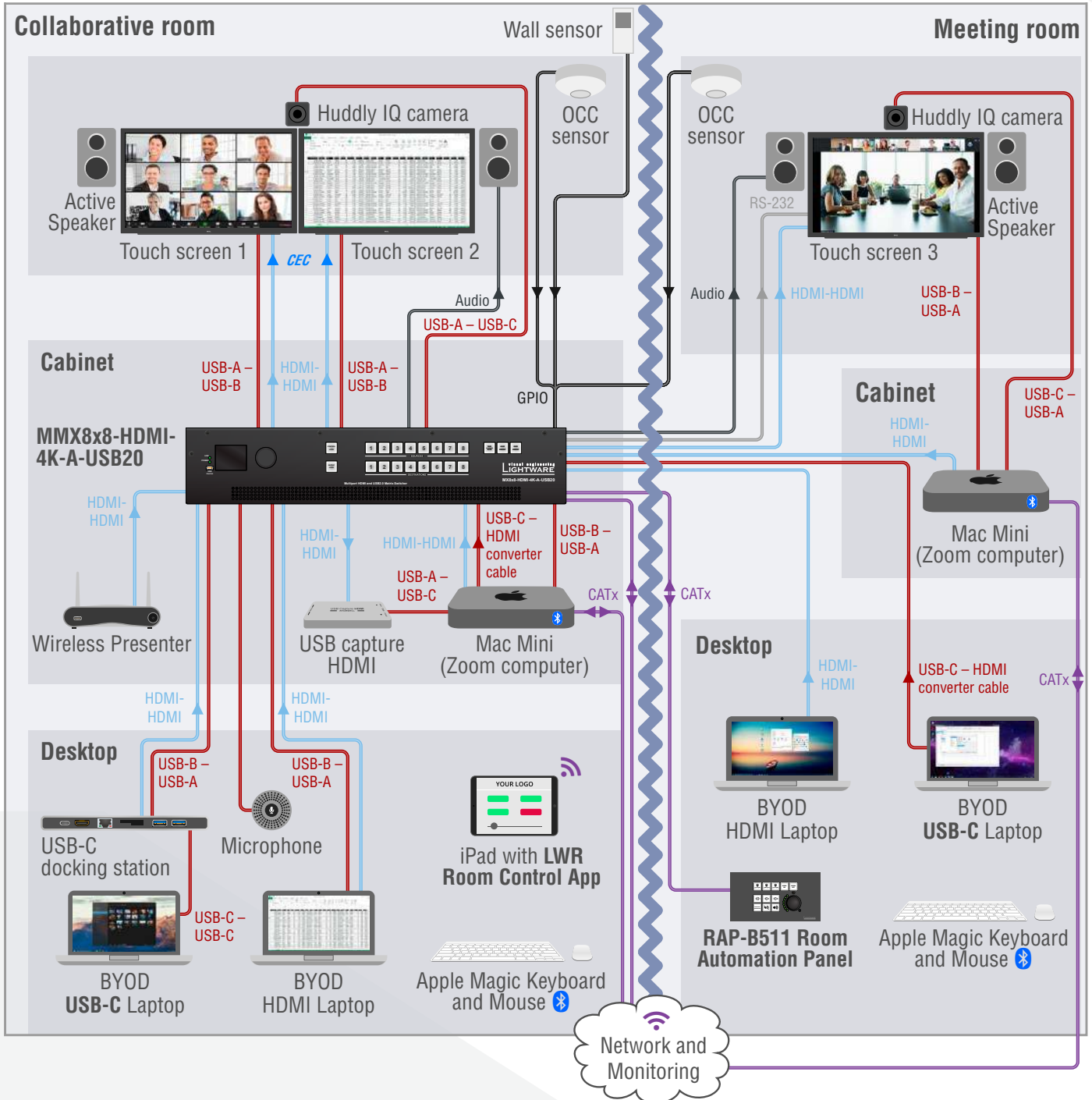
Divisible Room for Cisco Webex + MS Teams Platforms



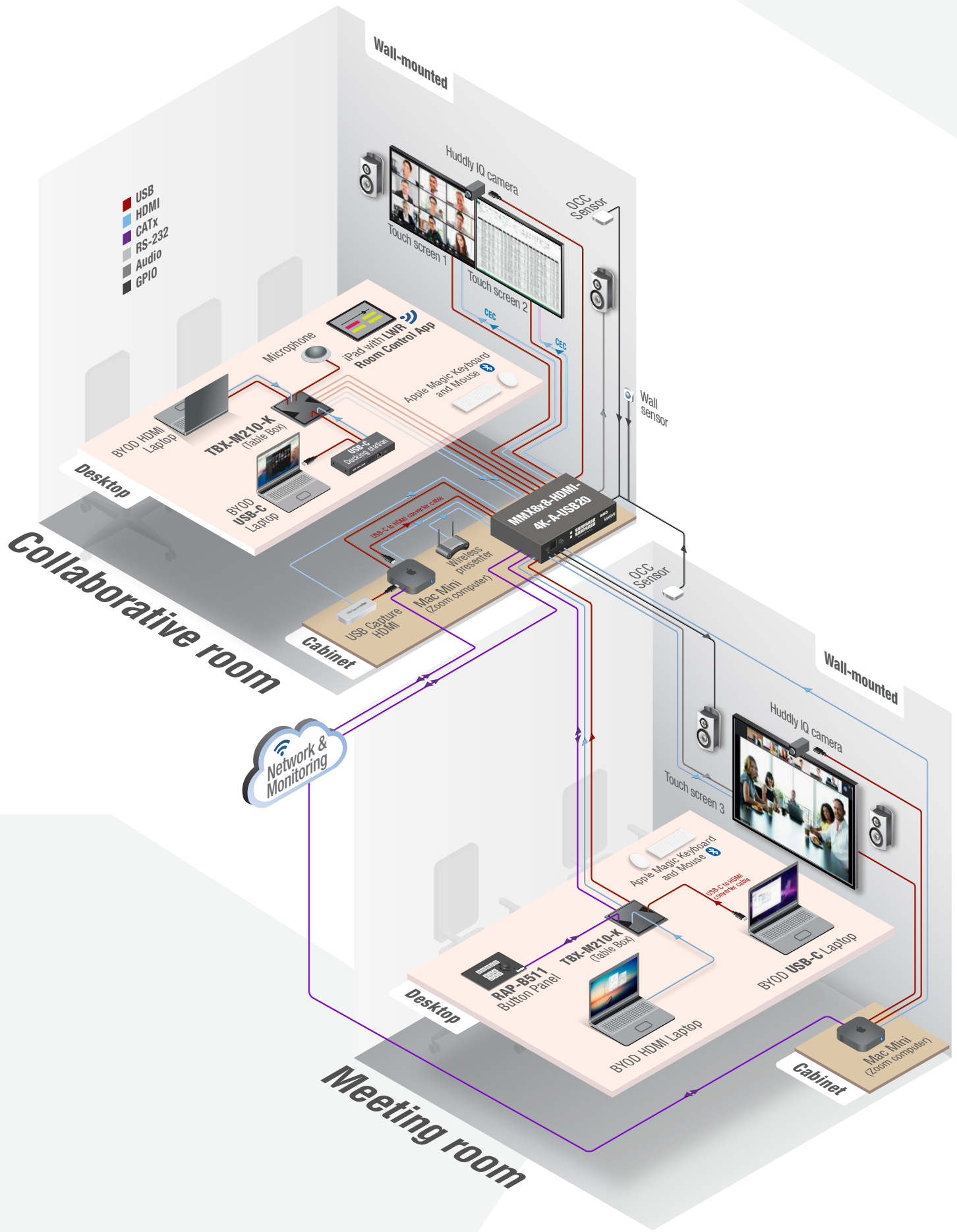
Divisible Room for Cisco Webex + MS Teams Platforms



Divisible Room with Touch Screens



Divisible Room with Touch Screens



MMX8x8-HDMI-4K-A-USB20 Port diagram

