IntelliMix Room Kits

Microsoft Teams Rooms and Zoom Rooms Solutions

Shure IntelliMix Room Kits for Microsoft Teams Rooms and Zoom Rooms manual. Set up small, medium, or large rooms for premium audio and video (IMXRK30, 50, 70 & 80)

Version: 2.1 (2026-G)

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IntelliMix Room Kits
Microsoft Teams Rooms and Zoom Rooms Solutions

What are IntelliMix™ Room Kits for Microsoft Teams Rooms and Zoom Rooms?



IntelliMix Room Kits have everything you need to get Microsoft Teams Rooms or Zoom Rooms online quickly.

The kits are based on the IntelliMix Foundation System (including a Windows-based compute with Shure IntelliMix® Room DSP software, touch panel, and accessories) and are completed with the MXA902 Integrated Ceiling Array Microphone + Loudspeaker and Huddly camera solutions.

To set up an IntelliMix Room Kit, refer to the instructions in this user guide.

Learn what's included in each IntelliMix Room Kit.

Auto Setup on IntelliMix Room Kits

Important: When deploying IntelliMix Room Kits, make all network and power connections before turning on the IntelliMix Foundation Compute.

When the IntelliMix Foundation Compute starts for the first time, Shure IntelliMix Room DSP software automatically creates audio routes and optimizes audio settings for the room—with no configuration from you.

If audio devices are not connected properly, auto setup will not run correctly and the system may not have sound. Auto setup can be started manually later if needed.

For best results, use the supplied devices. Shure extensively tests the auto setup process on the included devices.

Setup and Other Resources

- How to set up the IntelliMix Room Kit 30, 50, 70, or 80
- Microsoft Teams deployment overview
- Zoom Rooms deployment overview
- MXA902 user guide
- Huddly documentation
- H3C network switch documentation
- TP-Link USB-Ethernet adapter documentation
- IntelliMix Room Kit troubleshooting

Related Products

- IntelliMix Foundation System
- IntelliMix Room software DSP

Connection Diagrams

Follow these diagrams to connect power, Ethernet, USB, and HDMI cables for your IntelliMix Room Kit.

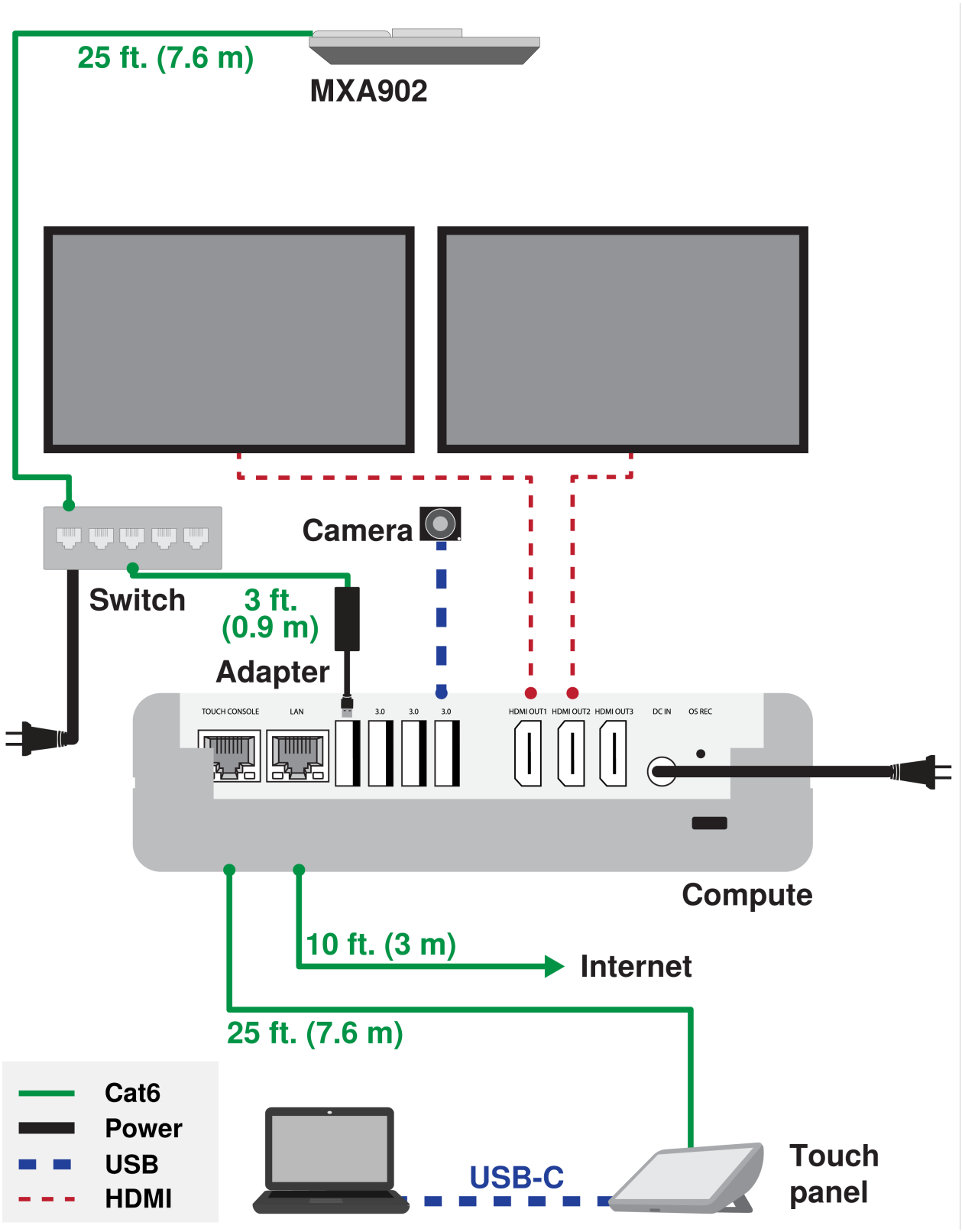
Important:

- Connect all network and power cables as shown in the diagrams before turning on the IntelliMix Foundation Compute.
- Ensure that the switch with MXA902s and the USB-Ethernet adapter is on an isolated network. Do not use the included switch for internet.

Otherwise, auto setup may fail and the system may not have sound. Auto setup can be started manually later.

See How to Set Up an IntelliMix Room Kit for a detailed description of the deployment process.

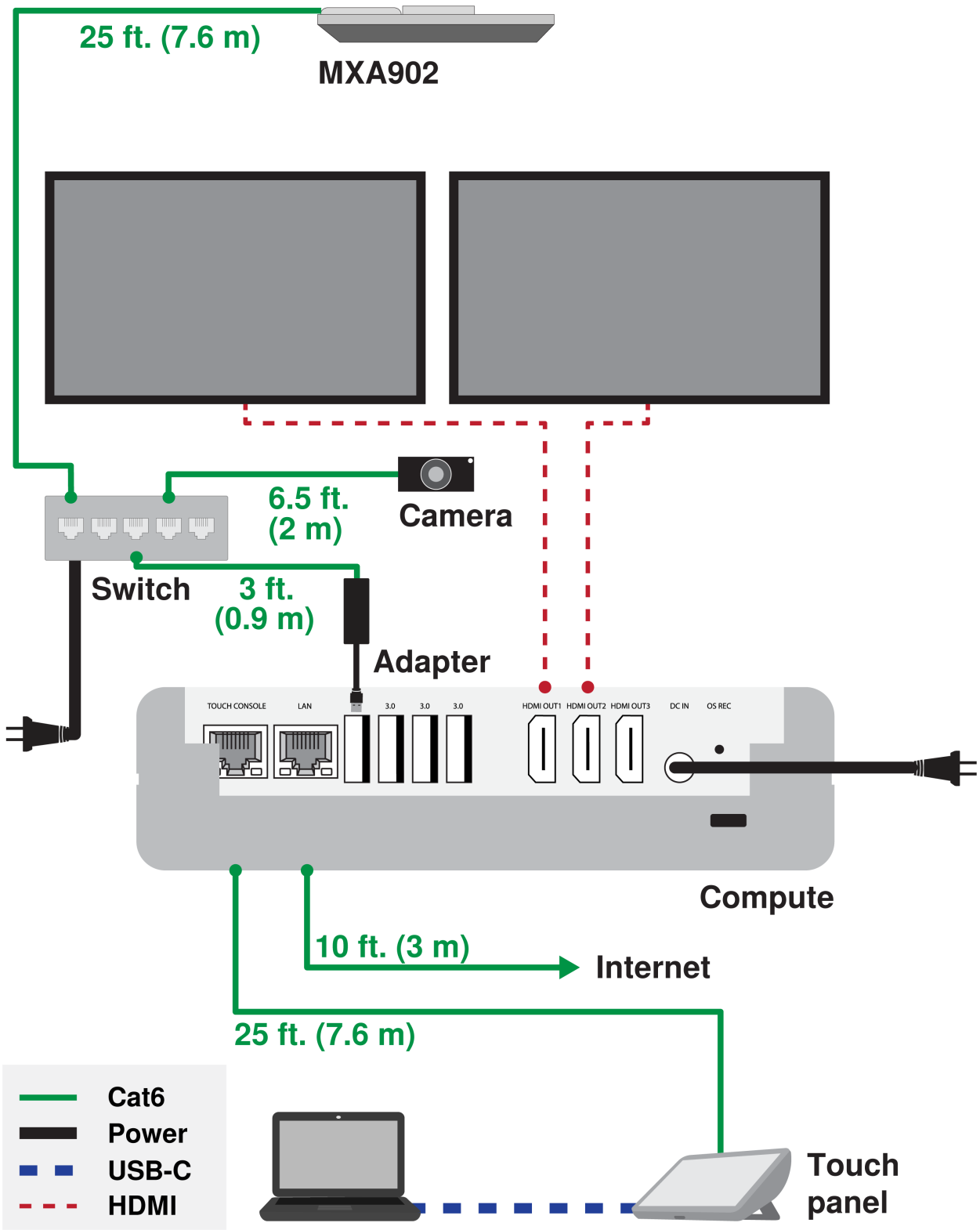
IntelliMix Room Kit 30 Connection Diagram



Huddly IQ cameras: If you need to use a cable longer than 6.5 ft. (2 m), use an active USB 3.0 cable. Huddly's website has additional information.

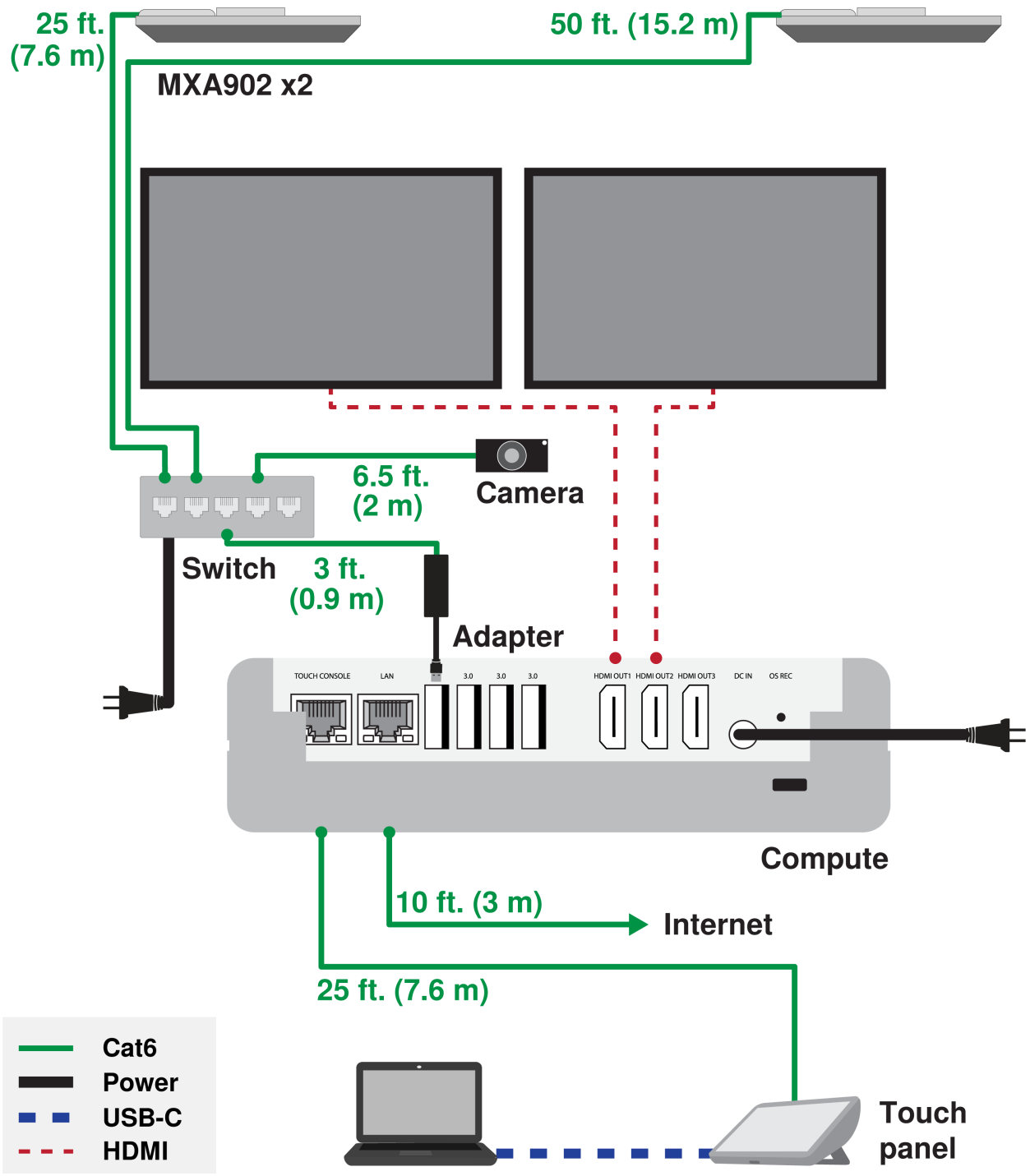
Note: The uplink port 5 on the network switch does not supply PoE+. Use ports 1-4 for the MXA902.

IntelliMix Room Kit 50 Connection Diagram



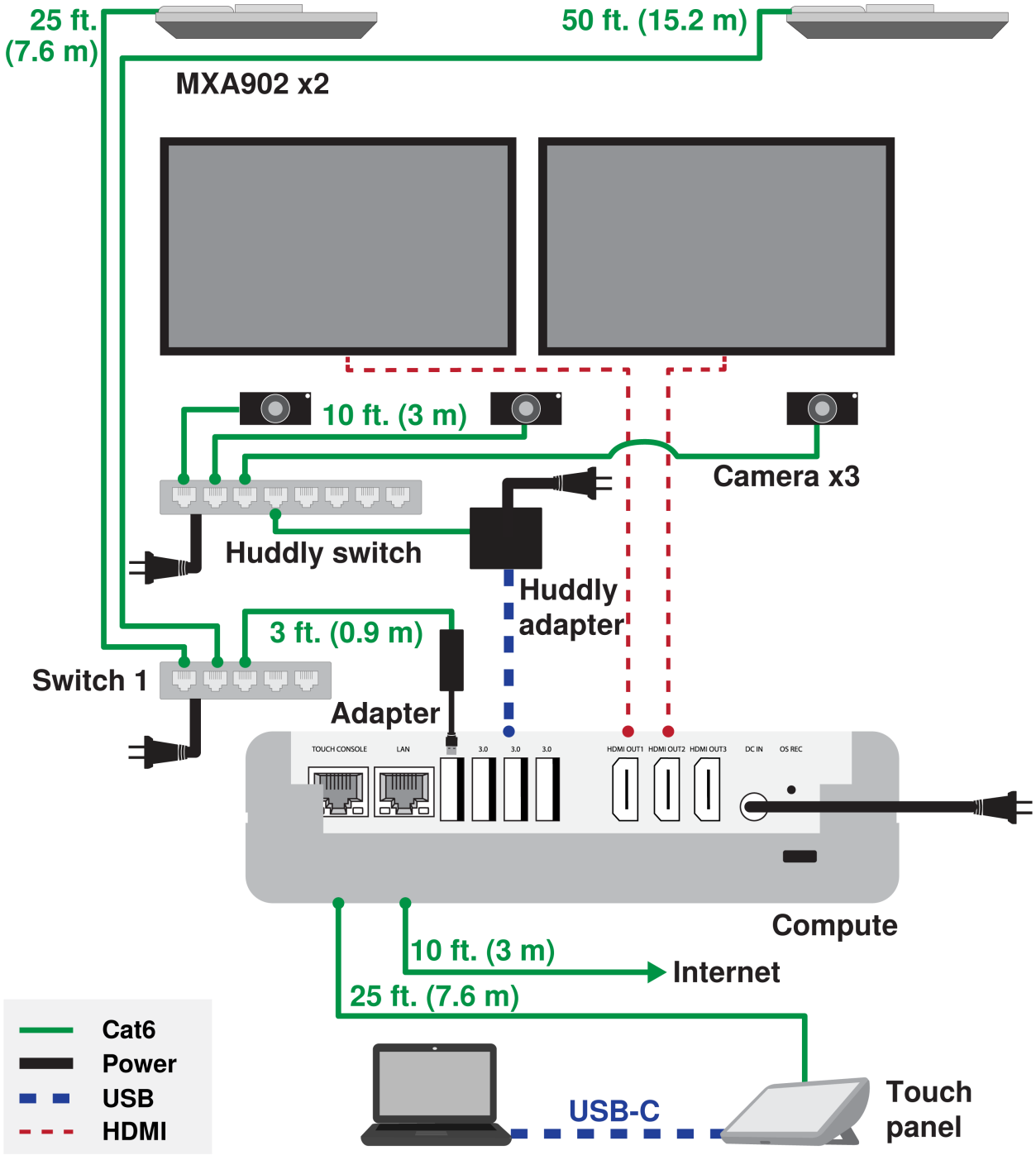
Note: The uplink port 5 on the network switch does not supply PoE+. Use ports 1-4 for MXA902 and camera connections.

IntelliMix Room Kit 70 Connection Diagram



Note: The uplink port 5 on the network switch does not supply PoE+. Use ports 1-4 for MXA902 and camera connections.

IntelliMix Room Kit 80 Connection Diagram



Note: The uplink port 5 on network switch 1 does not supply PoE+. Use ports 1-4 for MXA902 connections.

How to Set Up an IntelliMix Room Kit

Before You Install: Network, Power, and License Requirements

Before you install an IntelliMix Room Kit, complete these tasks for a successful deployment.

Pre-Deployment Checklist for IntelliMix Room Kits

Task	Requirements	More Details
Purchase Microsoft Teams Rooms or Zoom Rooms licenses for each room	Account credentials are required to sign in.	Microsoft Teams Rooms licensing overview Zoom Rooms license types
Prepare your network	Required network connections: 1 RJ45 network connection with internet access for each compute. All other devices connect to included network switches. See Connection Diagrams for details. You should also review required ports, protocols, and firewall changes for IntelliMix Room and Microsoft Teams Rooms or Zoom Rooms.	Get your network ready for Microsoft Teams Firewall configuration for Zoom Rooms Required firewall changes for IntelliMix Room software
Plan for cable runs and power for each room	Required power connections: IntelliMix Room Kits 30, 50, and 70: 2 outlets IntelliMix Room Kit 80: 4 outlets See Connection Diagrams for details.	Shure provides all required cables for IntelliMix Room Kits, but you may need cables that are longer or shorter to fit the room.
Plan out where to install the MXA902(s) and camera(s)	Before deployment, plan where you will install all devices so that all talkers in the room can be seen and heard.	MXA902 placement guidelines Huddly camera installation guidelines

IntelliMix Room Kits support Autopilot and Autologin for Microsoft Teams Rooms. See Microsoft's instructions to learn how to set this up for your rooms.

Additional Microsoft Teams Rooms resources:

- Overview of planning, deploying, and managing Microsoft Teams Rooms
- Prepare your environment for Teams Rooms
- Microsoft Teams Rooms on Windows device security

Additional Zoom Rooms resources:

- Getting started with Zoom Rooms
- Getting started with Zoom Device Management

Step 1: Install Devices

Important: For the best setup experience, do not turn on the IntelliMix Foundation Compute until you have connected all other devices.

Install the devices in your room.

Installation instructions:

- Compute installation
- Touch panel installation
- MXA902 installation
- Huddly camera installation

-NSW versions: Use a managed gigabit switch that provides PoE+. Turn off any energy-efficient Ethernet (EEE) or IGMP features on the switch.

Step 2: Connect Devices

Connect devices according to the diagram for each kit. After making all required connections to the compute, attach the cable cover.

Important:

- Connect all network and power cables as shown in the diagrams before turning on the IntelliMix Foundation Compute.
- Ensure that the switch with MXA902s and the USB-Ethernet adapter is on an isolated network. Do not use the included switch for internet.

Otherwise, auto setup may fail and the system may not have sound. Auto setup can be started manually later.

Connection diagrams:

- IntelliMix Room Kit 30
- IntelliMix Room Kit 50
- IntelliMix Room Kit 70
- IntelliMix Room Kit 80

Tips

- Do not connect the included Shure or Huddly switches to the enterprise network. Auto setup may not work correctly in this configuration.
- All USB and Ethernet cables for the camera are included in the camera packaging.
- The IntelliMix Foundation Compute supports:
  - Microsoft Teams Rooms: Up to 2 connected displays
  - Zoom Rooms: Up to 3 connected displays

Step 3: Turn On the Compute

Before continuing, make sure that:

- The MXA902 has sufficient power (solid green status LED)
- The compute has an internet connection. This is required to sign in to Microsoft Teams Rooms or Zoom Rooms.
- All other devices are plugged in and connected to power.

1. Press the power button to turn on the compute.
2. After seeing the Windows welcome screen, you'll be prompted to sign in. Windows may reboot to install updates before prompting you to sign in. For Zoom Rooms units, Shure recommends checking for any available driver updates in Zoom Device Management after initial setup.

Note: Windows updates can take time. Do not turn off the compute during an update.

While the compute starts for the first time, IntelliMix Room DSP software runs in the background to create audio routes and optimize audio settings for the room.

Step 4: Sign In

Enter your Microsoft Teams Rooms or Zoom Rooms credentials. You can connect a keyboard and mouse to the IntelliMix Foundation Compute.

- **Sign in**
  - You can use Autopilot and Autologin for Microsoft Teams Rooms. See Microsoft's instructions for details.
- **Select devices**. You may need to select the correct microphone and speaker sources.
  - Microphone: IntelliMix Room Echo Cancelling Speakerphone
  - Speaker: IntelliMix Room Echo Cancelling Speakerphone
  - Camera: Huddly camera

Note: *Do not choose the Shure IMXTP11 touch panel for the mic, speaker, or camera device in Zoom Rooms.*

- **Make a call to test the system**
  - Use the touch panel to adjust MXA902 loudspeaker volume in the room.

After completing these steps, your room is set up and ready to use.

MXA902 Status LED Behavior for IntelliMix Room Kits

Room Kit System Status	MXA902 LED Behavior
Unmuted in a Microsoft Teams call	Green
Muted in call	Red
Not in a call	Off

Note: At some point after signing in, the MXA902 mute status LED changes from solid green to off. This behavior is expected.

How to Switch Windows Accounts

The IntelliMix Foundation Compute has 2 built-in Windows accounts.

You may need to sign in to the administrator account for more advanced system configuration or troubleshooting.

Microsoft Teams Rooms

- **Skype for Business (Microsoft Teams Rooms) account:**
  - Default account when the system starts
  - Runs Microsoft Teams Rooms
- **Administrator account:**
  - Can make any change to the system with password (default: sfb)
  - Not used during meetings

To switch accounts:

1. Using the touch panel, go to `More` > `Settings` and enter the password (default: sfb).
2. Select `Windows Settings` and enter the password (default: sfb).

Zoom Rooms

Connect a keyboard and mouse to the compute to switch Windows accounts.

- **Zoom Rooms account:**
  - Default account when the system starts
  - Runs Zoom Rooms
- **Zoom Rooms administrator account:**
  - Can make any change to the system with password (default: shure100)
  - Not used during meetings

To switch accounts:

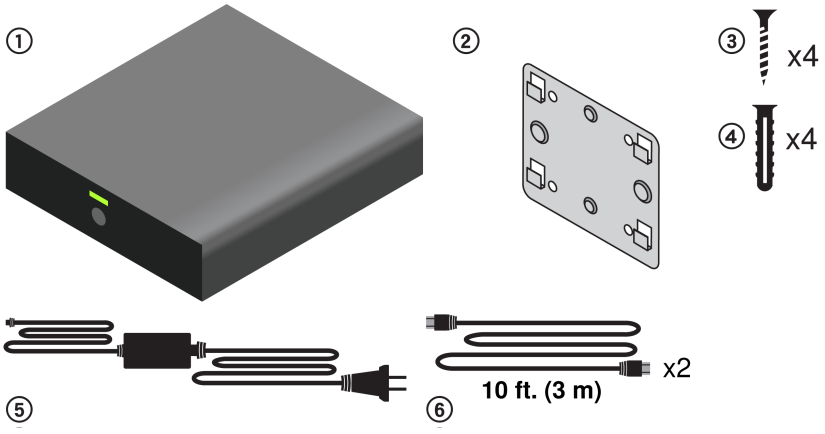
1. Using the touch panel, go to `Settings (gear icon)` > `General` > `Windows settings`.
2. Enter the Room passcode you received from Zoom.
3. Select the ZoomRoomsAdmin account and enter the password (default: shure100).

IntelliMix Foundation System Parts

Each kit includes the IntelliMix Foundation System (IMXF5). Components include:

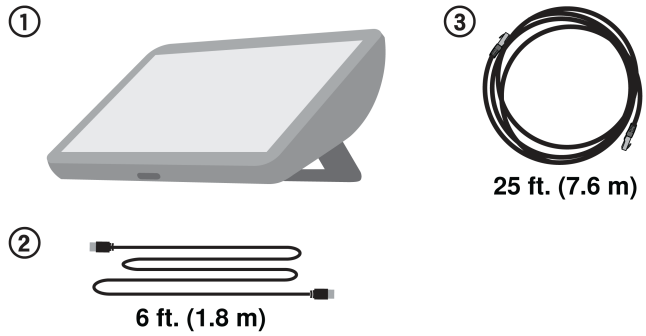
Compute:

1. IntelliMix Foundation Compute
2. Wall bracket
3. Mounting screws for wall bracket (4 KA3 x 30)
4. Drywall/concrete anchors (4)
5. Power cords and FSP120-ABBN3 power supply for compute (included cords vary by region)
6. 10 ft. (3 m) HDMI cables to connect displays (2)



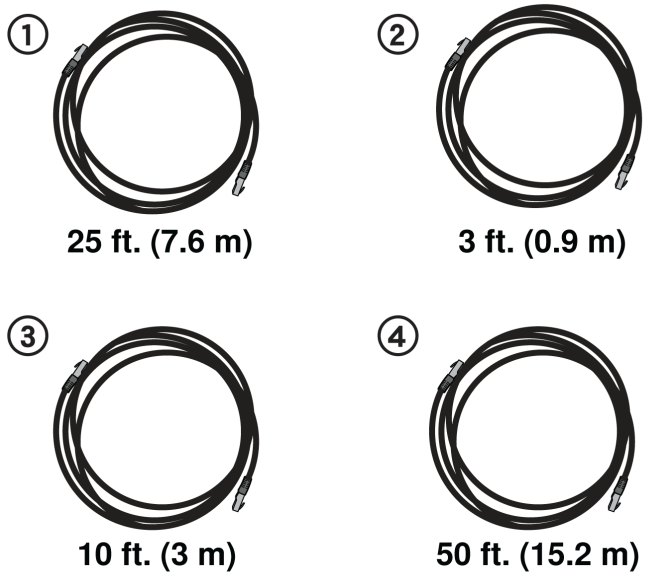
Touch panel:

1. IntelliMix Touch Panel
2. 6 ft. (1.8 m) USB-C cable for in-room content sharing
3. 25 ft. (7.6 m) Ethernet cable to connect to compute



Cables:

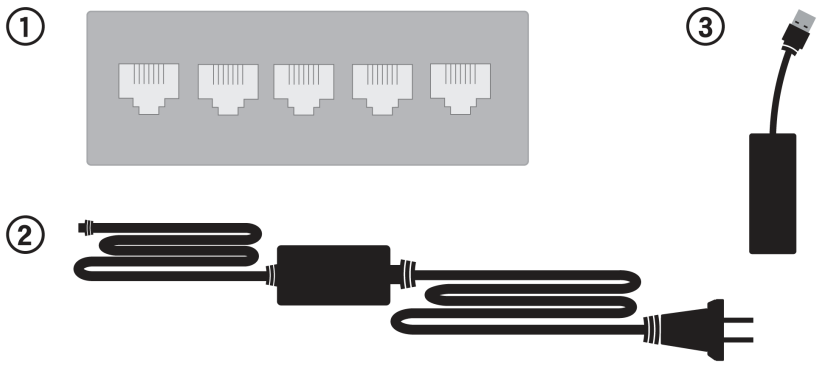
1. 25 ft. (7.6 m) Ethernet cable for MXA902
2. 3 ft. (0.9 m) Ethernet cable for USB-Ethernet adapter
3. 10 ft. (3 m) Ethernet cable to connect compute to internet
4. 50 ft. (15.2 m) Ethernet cable for second MXA902



Network switch* and USB-Ethernet adapter:

1. PoE+ network switch*
2. Network switch power cords and power supply (included cords vary by region)*
3. USB-to-Ethernet adapter (USB 3.0 to gigabit Ethernet)

* Not included with IMXF5-NSW or IMXRK-NSW versions.



Model Variations

IMXF5 Variants

SKU	Description
IMXF5	IntelliMix Foundation System for Microsoft Teams Rooms
IMXF5Z	IntelliMix Foundation System for Zoom Rooms
IMXF5-NSW	IntelliMix Foundation System for Microsoft Teams Rooms, no switch
IMXF5Z-NSW	IntelliMix Foundation System for Zoom Rooms, no switch

IntelliMix Room Kit 30 Included Components

- IntelliMix Foundation System
- MXA902 Ceiling Array Microphone + Loudspeaker
- Huddly IQ Camera



IntelliMix Room Kit 50 Included Components

- IntelliMix Foundation System
- MXA902 Ceiling Array Microphone + Loudspeaker
- Huddly L1 Camera



IntelliMix Room Kit 70 Included Components

- IntelliMix Foundation System
- (2x) MXA902 Ceiling Array Microphone + Loudspeaker
- Huddly L1 Camera

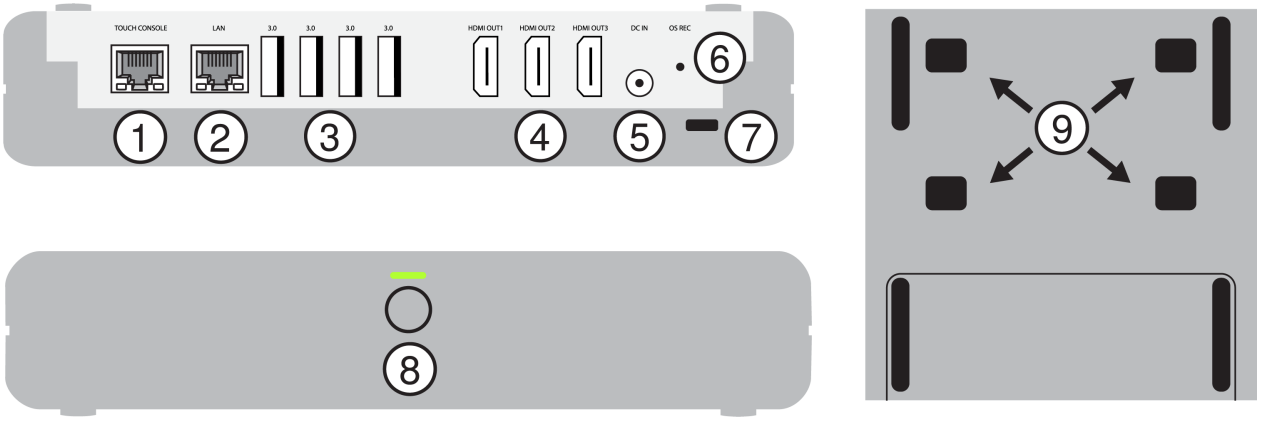


IntelliMix Room Kit 80 Included Components

- IntelliMix Foundation System
- (2x) MXA902 Ceiling Array Microphone + Loudspeaker
- Huddly Crew 3-Camera System



IntelliMix Foundation Compute Parts



1. RJ45 for connection to IntelliMix Touch Panel
2. RJ45 for connection to internet
3. USB-A 3.0 (x4)
4. HDMI out (x3)
5. DC IN: Power
6. OS REC: Not enabled
7. Kensington lock slot
8. Power button
9. Mounting holes for wall bracket

Versions of IntelliMix Room Software

There are 2 separate versions of IntelliMix Room that serve different purposes:

- IntelliMix Room software for IntelliMix Room Kits and IntelliMix Foundation System
- IntelliMix Room software DSP for third-party compute devices

Note: Do not try to install the IntelliMix Room software DSP on the compute included with the IntelliMix Foundation System.

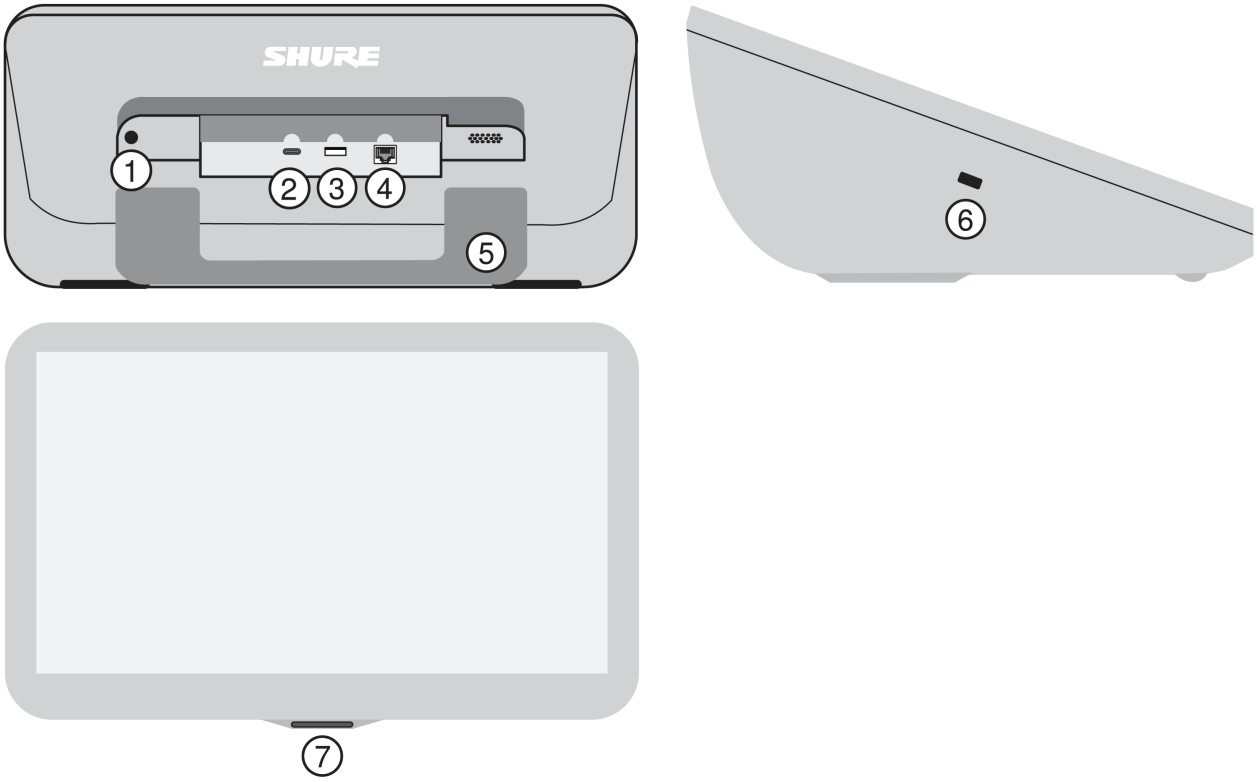
IntelliMix Room Software Comparison

	IMX Room for Room Kits/Foundation System	IMX Room for Third-Party Devices
Comes installed on device	X	
Customer installs on device		X
Updated through Windows update process	X	
Updated by customer		X

IntelliMix Touch Panel Parts

The touch panel functions as a display to control the IntelliMix Foundation Compute. Installers or administrators can use the touch panel to control Windows and Microsoft Teams Rooms or Zoom Rooms settings.

Meeting participants can use the touch panel to join and start meetings. Touch the screen to wake the system.



1. 3.5 mm headphone jack
2. USB-C ingest for content sharing
3. USB-A
4. RJ45 for connection to IntelliMix Foundation Compute
5. Movable kickstand
6. Kensington lock slot
7. Passive infrared sensor: The screen automatically turns on when a person is detected. The sensor works best when the kickstand is down.

   Not supported in Zoom Rooms.

Optional Accessories

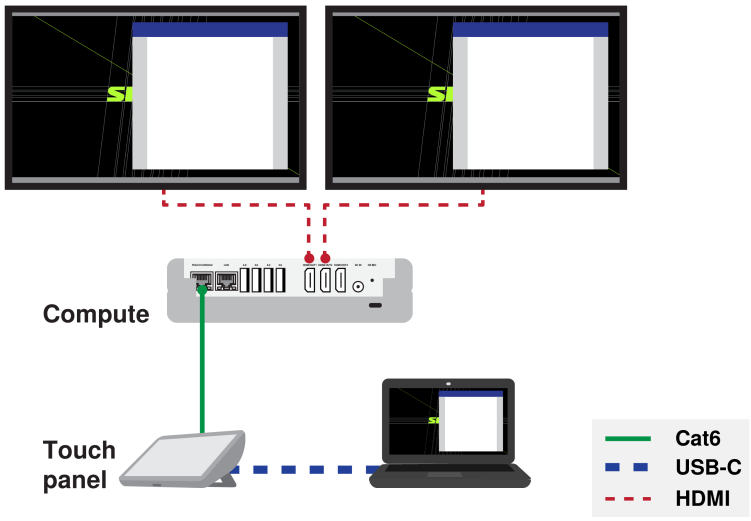
- A-IMXTP11-WB wall bracket for touch panel

How to Share Content on the Displays

You can share content on the displays connected to an IntelliMix Foundation Compute. To share content, use the included USB-C cable to connect a laptop to the touch panel's USB-C port.

You can share content in calls or locally in the room outside of calls.

Zoom Rooms: In Zoom Device Management, turn on the setting that allows HDMI content share locally before and during the meetings.



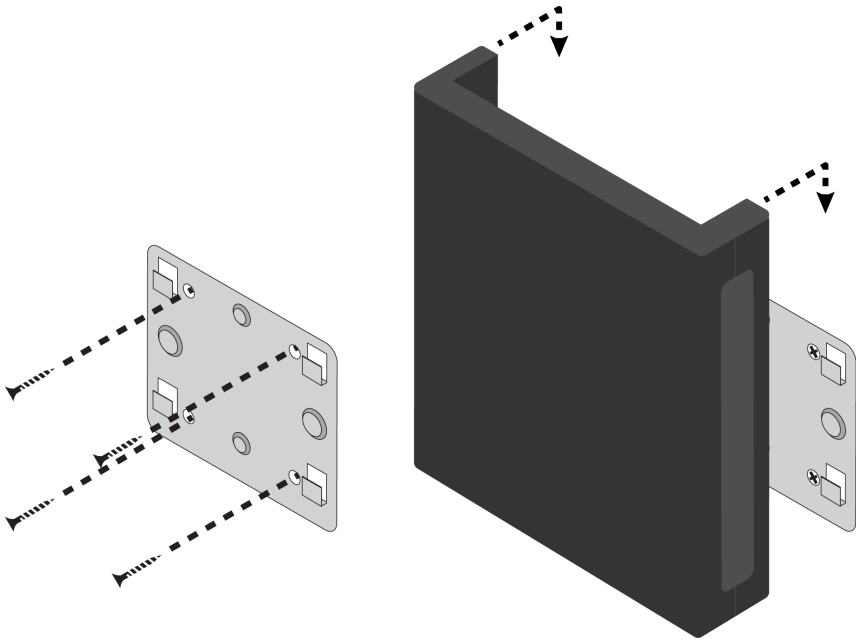
Installation Instructions

Install the Compute

Place the compute near the room's displays in a location with unrestricted airflow.

If wall mounting, use the included mounting bracket:

1. Use the included screws to attach the bracket to the wall with the mounting hooks facing up. If you're not installing on a stud, use the included anchors.
2. The compute slides onto the wall bracket. When installed, the cables come out the top end of the compute. It's easiest to make all required connections to the compute, attach the cable cover, and then slide it on to the wall bracket.



Important: Make all network and power connections before turning on the IntelliMix Foundation Compute. Otherwise, auto setup will not run correctly and the system may not have sound. Auto setup can be started manually later.

Install the Touch Panel

Place on a table or install on a wall using the optional A-IMXTP11-WB wall bracket (sold separately).

Note: The PIR sensor doesn't work when mounted on a wall.

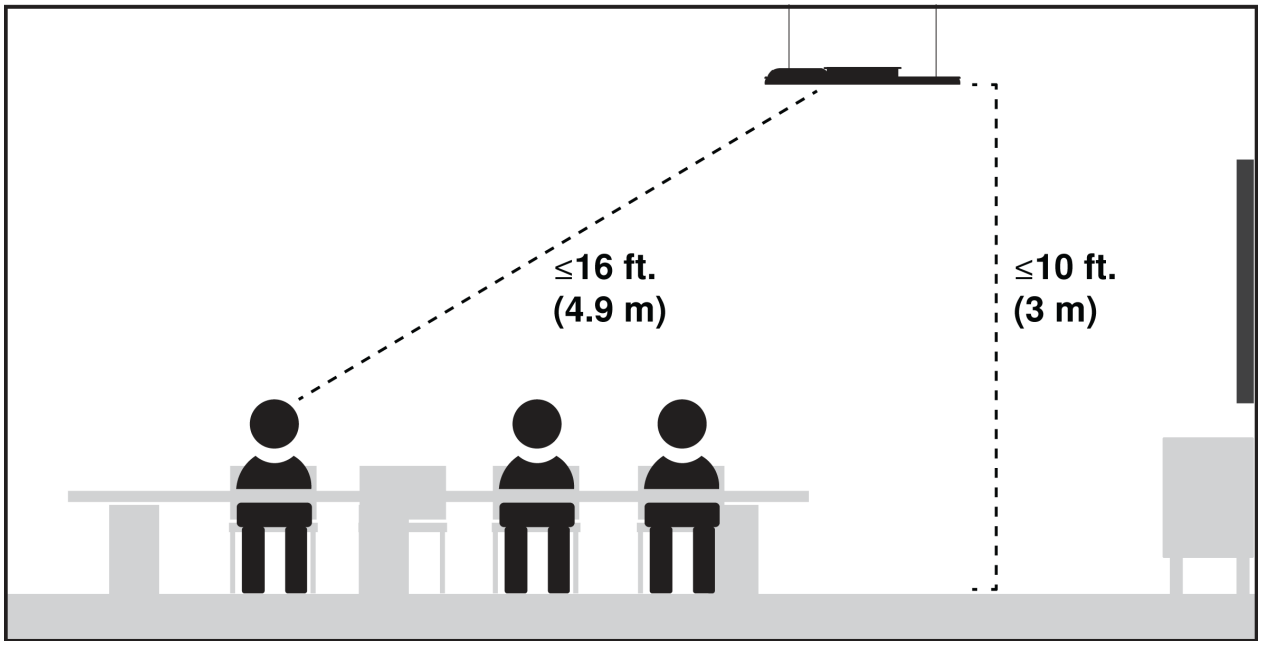
MXA902 Placement Guidelines for IntelliMix Room Kits

The MXA902 ceiling array microphone + loudspeaker is an extremely flexible device for many types of rooms. For a seamless deployment, you should measure and plan for coverage before installation.

Install the MXA902 in a tile grid, suspended from the ceiling, or with other mounting accessories. Refer to the MXA902 user guide for complete installation instructions.

Placement and Coverage Considerations

- Recommended maximum mounting height: 10 feet (3 m)
- Recommended maximum distance from microphone to talker: 16 feet (4.9 m)
- Install toward the front of the room near the display.
- The default coverage area is a 20 x 20-foot square (6.1 x 6.1 m) centered under the device.
  - For most installations, all you need to do is install the MXA902. There is a way to move the coverage area in the device's control software, but you shouldn't need to do this for most installations.
- Don't place the MXA902 behind obstructions.

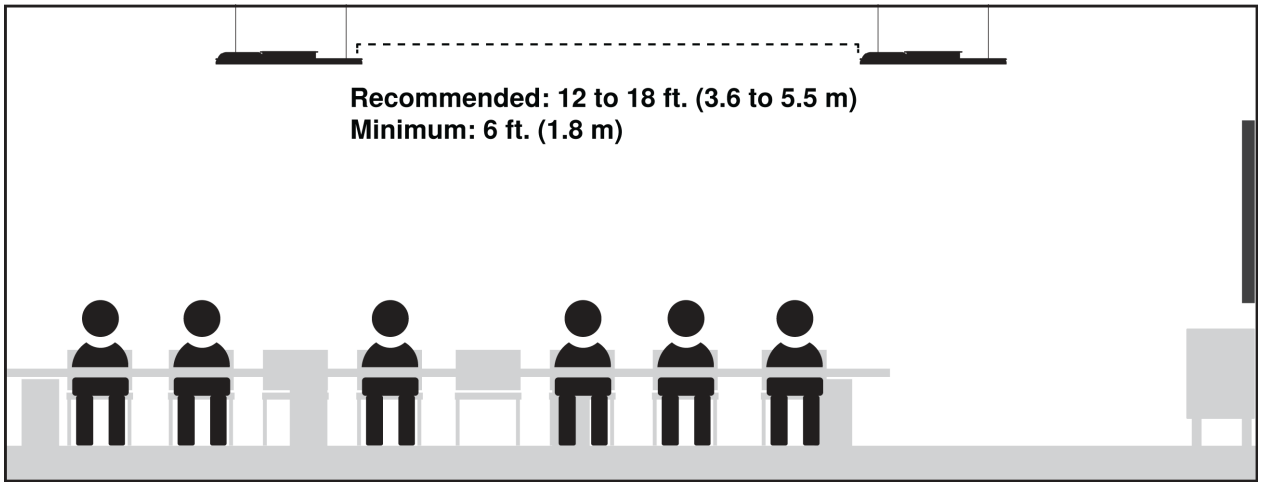


Tips for Installing 2 MXA902s

Use 2 MXA902s to cover a room larger than 20 x 20 ft. (6.1 x 6.1 m). Install one MXA902 near the front of the room and the other near the middle of the room. It's OK if some of each device's full coverage area goes unused.

- Recommended space between MXA902s: 12 to 18 ft. (3.6 to 5.5 m). Best performance in this range.
- Minimum space between MXA902s: 6 ft. (1.8 m). For rooms where 12 ft. spacing isn't possible.

- The size of the total coverage area depends on how close the 2 MXA902s are to each other.



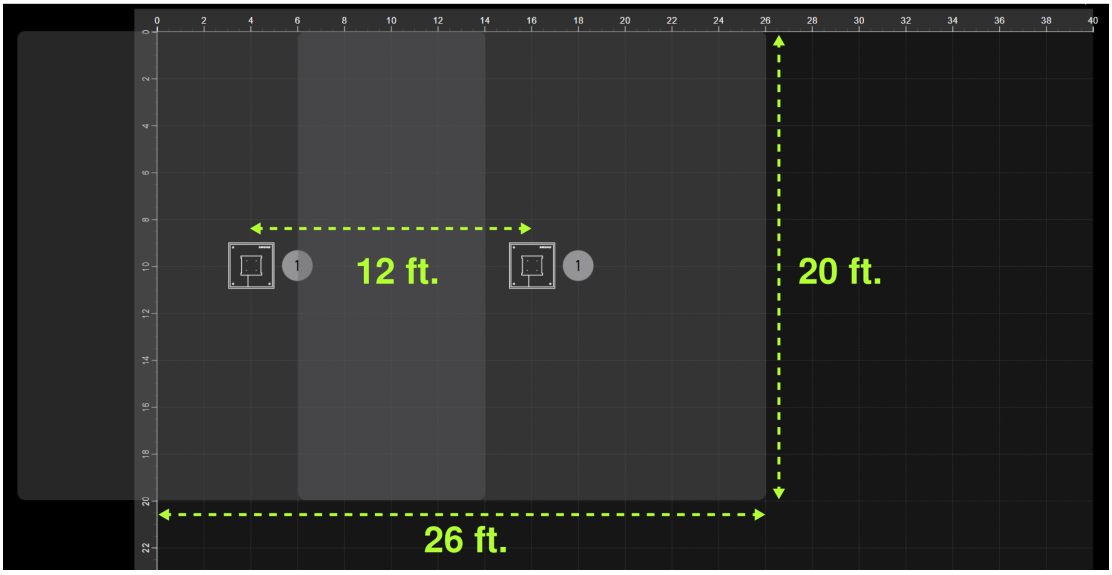
Note: Distances assume a mounting height of 9 ft. (2.7 m).

MXA902 Coverage Examples

All examples use a mounting height of 9 ft. (2.7 m).

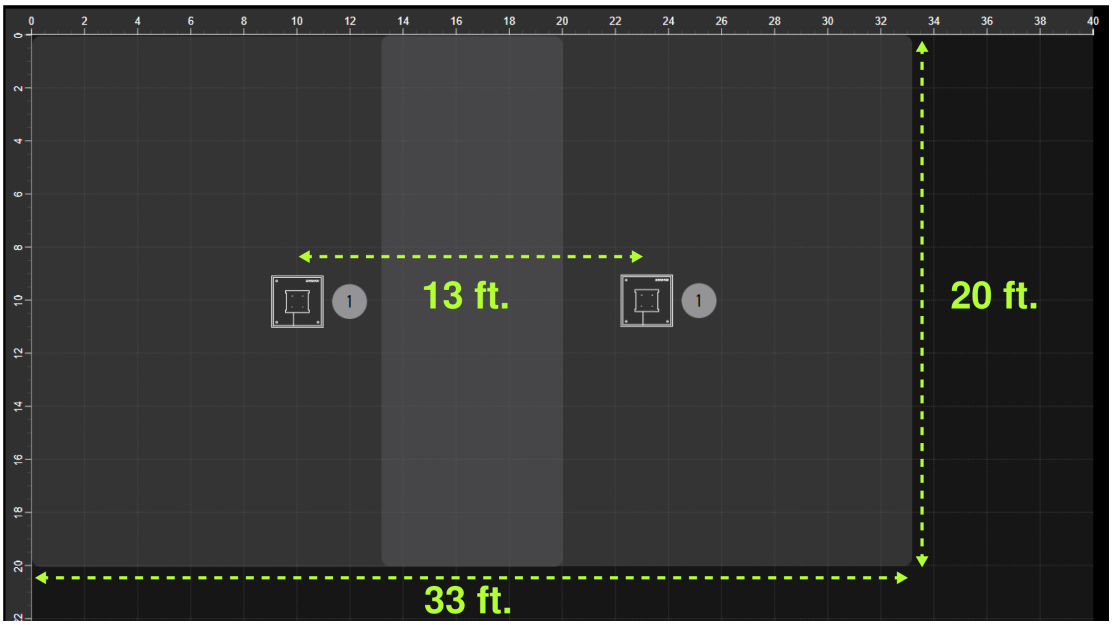
20 x 26-ft. Coverage:

- 12 ft. (3.7 m) between MXA902s
- MXA902 on left is near the front of room. Some of its 20 x 20-ft. coverage area is unused, and this is OK.



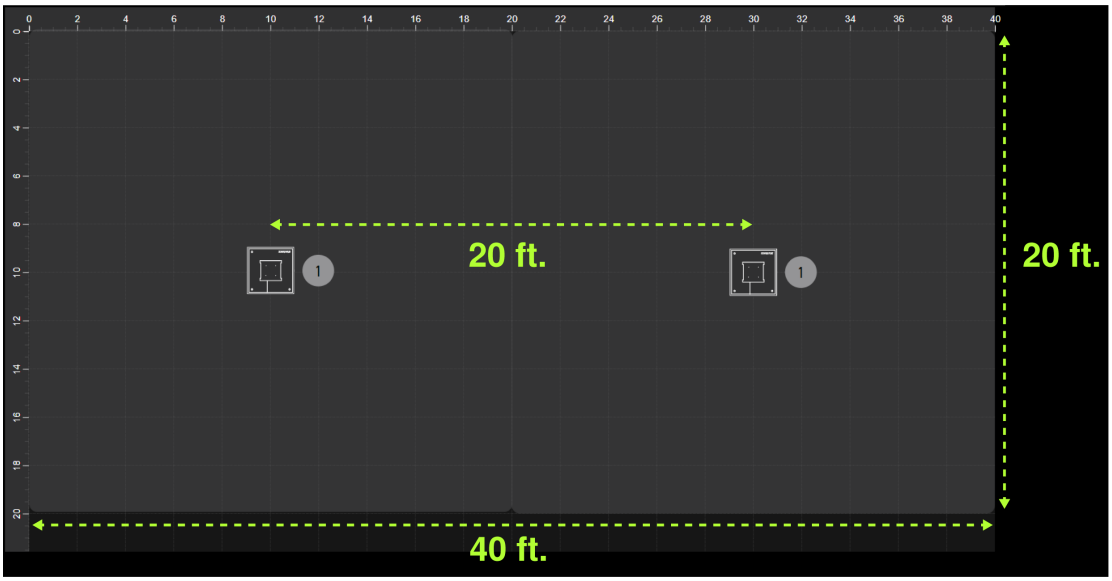
20 x 33-ft. Coverage:

- 13 ft. (3.9 m) between MXA902s



20 x 40-ft. Coverage:

- 20 ft. (6.1 m) between MXA902s



Install Huddly Cameras

Install Huddly cameras as close to eye level as possible, either above or below the screen. For more details, visit Huddly's website:

- Huddly IQ
- Huddly L1
- Huddly Crew

Recommended Display Settings

For best results, use these settings for front-of-room displays connected to an IntelliMix Foundation Compute:

- Turn off any automatic power-off or automatic standby features.
- Turn off the display's eco settings.

These settings ensure that front-of-room displays turn on when Microsoft Teams Rooms or Zoom Rooms wakes. Consult your display manufacturer's documentation or these sources for more guidance:

- Microsoft Teams Rooms documentation
- Zoom Rooms documentation

How to Start Auto Setup

Important: Auto setup is only for IntelliMix Room Kits with MXA902s. Do not use the feature with other devices.

The auto setup process in IntelliMix Room software automatically configures audio settings for the room for zero-touch provisioning.

Follow these steps to run the auto setup process on an IntelliMix Foundation Compute:

1. Sign in to the compute's administrator account.
2. Right-click (long tap) the IntelliMix Room icon in the system tray and choose Auto setup.
3. Auto setup runs. You'll see a message that tells you if auto setup was successful or not.

When the compute starts for the first time, auto setup runs automatically.

You may need to run auto setup manually if:

- You can't hear the far end and they can't hear you during a test call
- You added an MXA902 to the room
- You turned on the compute before connecting all devices
- You want to apply the latest auto setup settings to your audio devices

Note: Shure periodically makes improvements to the auto setup settings. Re-run auto setup to take advantage of these changes.

How to Add or Move an MXA902

Follow this procedure to do any of the following:

- Add a second MXA902 to an existing room kit installation
- Move a previously used MXA902 to a different room

Note: This procedure also works if you have a compute that was previously set up and then later reimaged.

To add an MXA902:

1. Check the second MXA902's firmware version.
   - **New MXA902:** The packaging lists the installed firmware version.
   - **Previously used MXA902:** Connect the MXA902 to PoE+ on a network switch. Open Shure Update Utility on a computer connected to the same network and subnet as the device. The Current version column shows the device's installed firmware.
2. If needed, update the MXA902's firmware to version 6.2.50 or newer using Shure Update Utility.

3. For a previously used MXA902, reset to factory settings. If your MXA902 is new, you don't need to factory reset the device.
4. Install the MXA902 in the room with the other room kit devices. Connect it to the same switch as the other room kit devices. If your MXA902 was previously connected to another IntelliMix Room Kit, wait 30 seconds before continuing to step 5.
5. Restart the compute.
6. Run the auto setup process on the compute. After auto setup finishes, the room is ready to use.

Remote Monitoring and Management with ShureCloud

Use ShureCloud to remotely view information about IntelliMix Room Kit devices.

To add an IntelliMix Room Kit to ShureCloud, you only need to add the IntelliMix Foundation Compute. Use one of the following methods to add the compute:

- Scan the local network for devices, or
- Use the MAC address printed on the bottom of the compute

After the compute is added to ShureCloud, it presents the other connected room kit devices to ShureCloud. Room kit devices display as nested under the compute in the Connections view.

See the ShureCloud user guide for detailed instructions about how to add devices to your ShureCloud account.

Updates for Room Kit Components

These charts show how to update device drivers and firmware for devices included in IntelliMix Room Kits running Microsoft Teams Rooms or Zoom Rooms.

Device Updates (IntelliMix Room Kits for Microsoft Teams Rooms)

Device	Where to update
IntelliMix Foundation Compute and Touch Panel	Driver updates are downloaded and installed automatically by Windows Update during inactive hours.
MXA902 ceiling array microphone + loudspeaker	Update firmware using either tool: ShureCloud Shure Update Utility software
Huddly cameras	Driver updates are downloaded and installed automatically by Windows Update during inactive hours. See Huddly support for additional information.

Device Updates (IntelliMix Room Kits for Zoom Rooms)

Device	Where to update
IntelliMix Foundation Compute and Touch Panel	Manage driver updates in Zoom Device Management. Not all drivers are downloaded automatically.

Device	Where to update
	Shure recommends checking for any available driver updates in Zoom Device Management after initial setup.
MXA902 ceiling array microphone + loudspeaker	Update firmware using either tool: ShureCloud Shure Update Utility software
Huddly cameras	Driver updates are downloaded and installed automatically by Windows Update during inactive hours. See Huddly support for additional information.

Adjust Huddly Camera Settings

If needed, use the Huddly App to make changes to camera settings.

The Huddly App allows you to enable features like Huddly Director, Group Framing, or Gallery View. You can also adjust the camera's field of view using pan, tilt, and zoom.

Troubleshooting

IntelliMix Room Kit Troubleshooting

Problem	Solution
Can't hear far-end talker and they can't hear me	First, check that Teams/Zoom is using the correct devices: **Microphone and speaker:** IntelliMix Room Echo Cancelling Speakerphone **Camera:** Huddly camera If this doesn't solve the problem, check MXA902 firmware and connections: 1. Check that the MXA902 is connected to a PoE+ port on the switch. 2. Update the MXA902's firmware to version 6.2.50 or newer using Shure Update Utility. 3. Reset the MXA902 to factory settings. 4. Check that all other devices are connected according to the diagrams and have power. Check that the compute has an internet connection.

Problem	Solution
	Finally, restart the compute to run the auto setup process again. If needed, follow these steps to start auto setup manually: 1. Sign in to the compute's administrator account. 2. Right-click (long tap) the IntelliMix Room icon in the system tray and choose Auto setup. You'll see a message that tells you if the process was successful or not. If you continue to receive a failure message, contact Shure support.
I used the included switch for my internet connection and the system has no sound/auto setup didn't work	First, ensure that the switch with MXA902s and the USB-Ethernet adapter is on an isolated network. Do not use this switch for internet. Use a separate switch for internet. Next, restart the compute to run the auto setup process again.
I turned on the IntelliMix Foundation Compute before connecting other devices and auto setup didn't create audio routes	Run IntelliMix Room software's auto setup process again: 1. Connect all devices according to the diagrams. 2. Restart the compute to run auto setup again. See step 3 if you want to start auto setup manually. 3. Sign in to the compute's administrator account. Right-click (long tap) the IntelliMix Room icon in the system tray and choose Auto setup.
I used my own network switch or USB-Ethernet adapter and auto setup didn't work properly	Auto setup is only tested to work with the supplied network switch and USB-Ethernet adapter.
I changed the IntelliMix Foundation Compute device name and have stopped hearing far end audio from the MXA902's loudspeaker	1. Sign in to the compute's administrator account. 2. Right-click (long tap) the IntelliMix Room icon in the system tray and choose Auto setup. Auto setup fixes broken audio routes.
No sound from MXA902’s loudspeaker	Check that MXA902 is connected to a PoE+ port on the switch. When connected to a PoE source, the MXA902 powers on, but the loudspeaker will not work. Check cables.
Auto setup keeps displaying a failure message	Check MXA902 firmware and connections: 1. Check that MXA902 is connected to a PoE+ port on the switch.

Problem	Solution
	2. Update the MXA902's firmware to version 6.2.50 or newer using Shure Update Utility. 3. Reset the MXA902 to factory settings. 4. Check that all other devices are connected according to the diagrams and have power. Check that the compute has an internet connection. 5. Restart the compute to run auto setup again or start auto setup manually. If you continue to receive a failure message, contact Shure support.
Display doesn't turn on when the touch panel wakes the system	Adjust your display's settings.

Additional Resources

- Shure Knowledge Base FAQs
- Command strings for Shure devices
- IP Ports and Protocols for Shure Devices
- Firewall Rules for Shure Software Applications
- Shure API documentation
- Shure Enterprise Networking Troubleshooting Checklist
- Training from Shure Academy
- Shure Collaboration & Conferencing YouTube channel

Download Shure Software

- Shure Designer
- ShureCloud
- Shure Update Utility
- Shure Discovery
- Software and firmware archive

IntelliMix Foundation System Specifications

General

Operating Temperature Range

0°C (32°F) to 40°C (104°F)

Storage Temperature Range

−20°C (−4°F) to 60°C (140°F)

IntelliMix Foundation Compute

CPU
12th generation Intel Core i5 processor

Memory
16 GB DDR4

Storage
256 GB

Graphics
Intel UHD Graphics for 12th generation Intel processors

Operating System
Windows 11 IoT Enterprise

Software
Microsoft Teams Rooms or Zoom Rooms and IntelliMix Room (8-channel)

Inputs and Outputs

RJ45 (LAN)	1
RJ45 (To touch console)	1
USB-A 3.0	4
HDMI out	3
Power (DC IN)	1

Bluetooth Frequency Range
2402 MHz to 2480 MHz

Bluetooth Output Power

Bluetooth	20 dBm EIRP maximum
BLE	10 dBm EIRP maximum

WLAN Frequency Bands
2.4 GHz and 5 GHz

WLAN Output Power
Country-dependent

Antenna Type
Integral

Power Supply
FSP120-ABBN3

Power Consumption

120 W maximum

IntelliMix Touch Panel

Resolution

1920 x 1080

Frequency Refresh Rate

60 Hz

Touch System

Type	Capacitive touch
Surface Treatment	Anti-fingerprint, anti-glare

Motion Sensor

PIR sensor for automatic wake-up

Inputs and Outputs

Audio out (3.5 mm)	1
USB-C (Content sharing)	1
USB-A 2.0	1
RJ45 (To compute)	1

Input Power

Delivered by DisplayLink over Cat6

52V DC (0.49 A)

Power Consumption

13 W maximum

Cable Requirements for Compute to Touch Panel

Cat6, shielded cable recommended

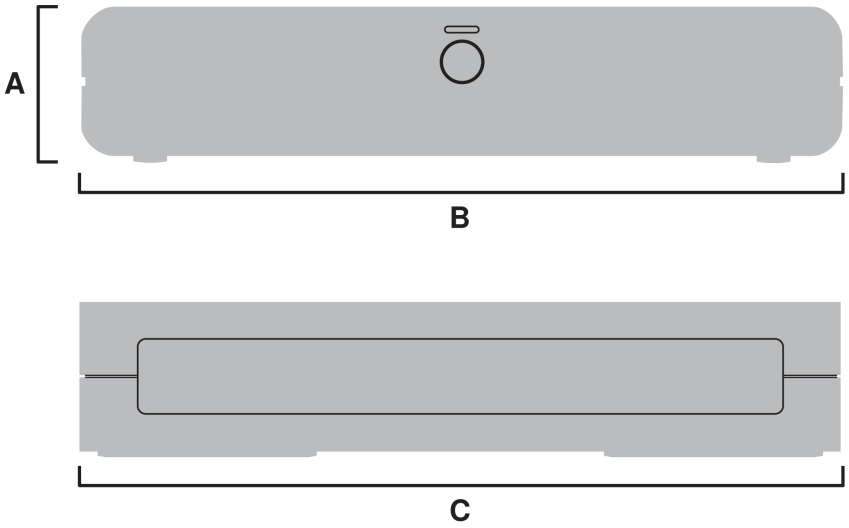
Maximum Cable Length for Compute to Touch Panel

Shielded Cable	200 ft. (60.9 m)
Unshielded Cable	30 ft. (9 m)

Dimensions

IntelliMix Foundation Compute

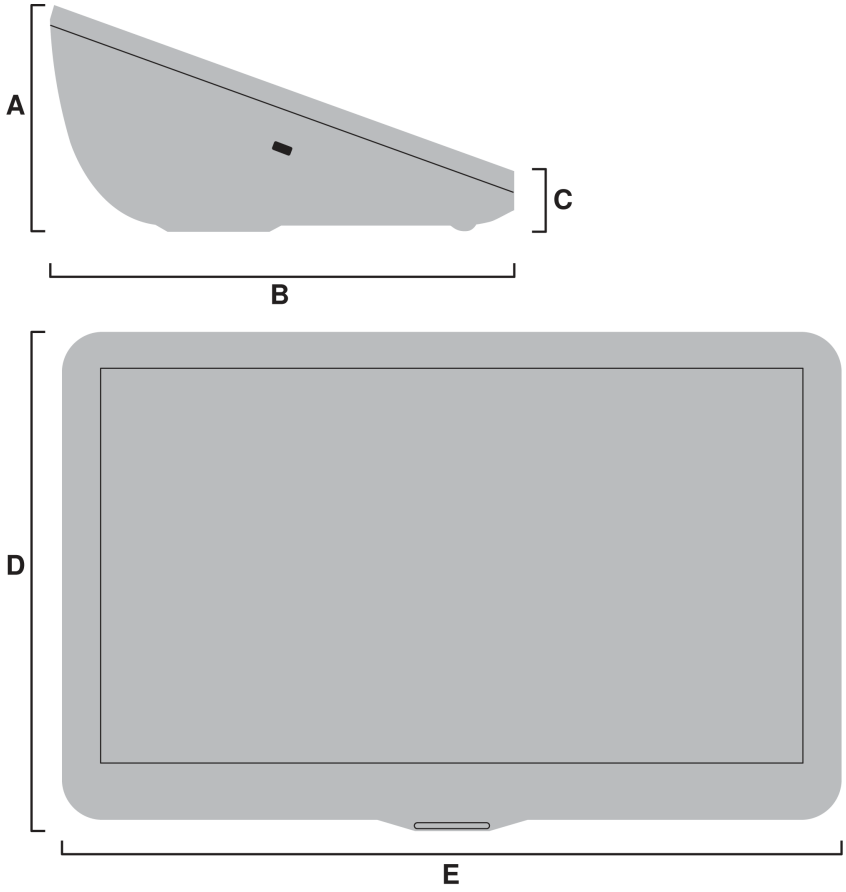
- A: 1.6 in. (40.17 mm)
- B: 7.7 in. (196 mm)
- C: 7.7 in. (196 mm)



Weight: 2.4 lb. (1.1 kg)

IntelliMix Touch Panel

- A: 3.2 in. (82.33 mm)
- B: 6.7 in. (169.63 mm)
- C: 0.8 in. (21.21 mm)
- D: 7.2 in. (183.25 mm)
- E: 11.2 in. (284.51 mm)



Weight: 2.8 lb. (1.3 kg)

Other Room Kit Device Specifications

- MXA902: shure.com/en-US/docs/guide/mxa902
- Huddly cameras: huddly.com
- H3C network switch: h3c.com
- USB-Ethernet adapter: tp-link.com

Important Safety Instructions

⚠	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
⚠	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.

7. DO NOT block any ventilation openings. Allow sufficient distances for adequate ventilation and install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as open flames, radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place any open flame sources on the product.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the Apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
21. Operate this product within its specified operating temperature range.
22. Follow local regulations and consult qualified personnel if the product installation or relocation requires construction work. Choose mounting hardware and an installation location that can support the weight of the product. Avoid locations subject to constant vibration. Use the required tools to install the product properly. Inspect the product periodically.
23. If your product has a feature to log in, upon first time start up, you must change your password.
24. Installation of equipment within an air-handling space (plenum) must be according to local regulations. Consult with qualified personnel to ensure appropriate installation methods for parts or ancillary equipment such as cables that may not be rated for plenum spaces.

WARNING:

- Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The safety certifications do not apply when the operating voltage is changed from the factory setting.
- If water or other foreign objects enter the inside of the device, fire or electric shock may result.

1. Use only AC adapter that is provided with your product.
2. If this product is powered by an AC adapter other than the AC adapter that comes with your product, it could result in personal injury and/or product failure.

Important Product Regulatory Information

EMC conformance testing is based on the use of supplied and recommended cable types. The use of other cable types may degrade EMC performance.

CE Notice

Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements.

The full text of the EU declaration of conformity is available at the following site: https://www.shure.com/en-EU/support/declarations-of-conformity.

UKCA Notice

Hereby, Shure Incorporated declares that this product with UKCA Marking has been determined to be in compliance with UKCA requirements.

The full text of the UK declaration of conformity is available at the following site: https://www.shure.com/en-GB/support/declarations-of-conformity.

Cybersecurity STATEMENT OF COMPLIANCE

Product Type: Relevant connectable products defined as internet-connectable products or network-connectable products, in line with inter alia Product Security and Telecommunications Infrastructure Act 2022.

Manufacturer Statement: We, Shure Incorporated, certify and declare as manufacturer under our sole responsibility, that the above-mentioned product(s) conform(s) to the legislation as mentioned under Attachment 1 – to Cybersecurity Statement of Compliance listed here: https://www.shure.com/en-GB/about-us/security.

Information on how to report security issues: The latest version of Shure's Disclosure policy can be found at the following link: https://www.shure.com/en-GB/about-us/security

Security update periods: Shure provides support regarding hardware and software updates that continue the integral cyber security safety of Shure products up to 24 months after end of life (AEOL). For the full statement regarding Shure's product support policy, and information regarding products end of life status information can be found at the following link: https://www.shure.com/en-GB/about-us/security

Manufacturer:
Shure Incorporated 5800 Touhy Avenue
Niles, Illinois, 60714-4608 U.S.A. Website: www.Shure.com.

Technical documentation is kept at:
Shure Incorporated, Corporate Global Compliance Engineering Division

UK Importer/Representative:
Shure UK Limited
Unit 2, The IO Centre, Lea Road, Waltham Abbey, Essex, EN9 1AS, U.K.
Phone: +44 (0)1992 - 703058
Email: EMEAsupport@shure.de

On behalf of Manufacturer:



Chad Ayers
08 May 2025 Niles, Illinois
Senior Director, Global Compliance

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the antenna of the radio/television receiver.
- Increase the separation between this equipment and the radio/television receiver.
- Plug the equipment into a different outlet so that the equipment and the radio/television receiver are on different power mains branch circuits.
- Consult a representative of Shure or an experienced radio/television technician for additional suggestions.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: The FCC regulations provide that changes or modifications not expressly approved by Shure Incorporated could void your authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

For information regarding responsible party and other matters relating to FCC compliance, please contact Shure Incorporated, 5800 W. Touhy Avenue, Niles, Illinois 60714-4608 U.S.A. shure.com/contact

Canada, ISED Notice

Notice: The Industry Canada regulations provide that changes or modifications not expressly approved by Shure Inc. could void your authority to operate this equipment.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antenna(s) must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times.

Cet équipement est conforme aux limites d’exposition aux rayonnements ISED établies pour un environnement non contrôlé. L’utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur. La ou les antennes doivent être installées de telle façon qu'une distance de séparation minimum de 20 cm soit maintenue entre le radiateur (antenne) et toute personne à tout moment.

Industry Canada (IC) Notices

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Additional Canadian information on RF exposure also can be found at the following Web address: http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html

NBTC Notice

เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.

ACMA Notice

WARNING: This device operates under an ACMA class license and must comply with all conditions of that license including operating frequencies.

SRRC Notice

（一）本产品符合"微功率短距离无线电发射设备目录和技术要求"的具体条款和使用场景；

（二）不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大器），不得擅自更改发射天线；

（三）不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；

（四）应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；

（五）如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；

（六）在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定。

IFETEL Notice

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

ANATEL Notice

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL – http://www.anatel.gov.br.

WARNING:

This device is restricted to indoor use only.

WARNING:

- the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

- for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

NCC Notice

1. 取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。
2. 應避免影響附近雷達系統之操作。
3. 高增益指向性天線只得應用於固定式點對點系統。

MIC Notice

運用に際しての注意

この機器の使用周波数帯では、電子レンジ等の産業·科学·医療用機器のほか工場の製造ライン等で使用されている移動体識別用の構内無線局（免許を要する無線局）及び特定小電力無線局（免許を要しない無線局）並びにアマチュア無線局（免許を要する無線局）が運用されています。

1. この機器を使用する前に、近くで移動体識別用の構内無線局及び特定小電力無線局並びにアマ　チュア無線局が運用されていないことを確認して下さい。
2. 万一、この機器から移動体識別用の構内無線局に対して有害な電波干渉の事例が発生した場合には、 速やかに使用周波数を変更するか又は電波の発射を停止した上、下記連絡先にご連絡頂き、混　信回避のための処置等（例えば、パーティションの設置など）についてご相談して下さい。
3. その他、この機器から移動体識別用の特定小電力無線局あるいはアマチュア無線局に対して有害な電波干渉の事例が発生した場合など何かお困りのことが起きたときは、保証書に記載の販売代　理店または購入店へお問い合わせください。代理店および販売店情報は Shure 日本語ウェブサイト　http://www.shure.co.jp でもご覧いただけます。

日本の電波法および電気通信事業法準拠。本デバイスは日本の電波法および電気通信事業法に基づく認証を受けています。本デバイスを改造しないでください（改造すると認証番号は無効になります）。

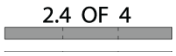
本製品が 5GHz 帯で使用するチャンネルは、下記の W52 、 W53 、 W56 の 3 タイプです。

タイプ	チャンネル番号	周波数
W52	36	5,180 MHz
	40	5,200 MHz
	44	5,220 MHz
	48	5,240 MHz
W53	52	5,260 MHz
	56	5,280 MHz
	60	5,300 MHz
	64	5,320 MHz
W56	100	5,500 MHz
	104	5,520 MHz

	108	5,540 MHz
	112	5,560 MHz
	116	5,580 MHz
	120	5,600 MHz
	124	5,620 MHz
	128	5,640 MHz
	132	5,660 MHz
	136	5,680 MHz
	140	5,700 MHz

W52 と W53 の帯域の電波は屋内でのみ使用可能です。

現品表示記号について



現品表示記号は、以下のことを表しています。 この無線機器は 2.4GHz 帯の電波を使用し、変調方式は「DS-SS」方式および「FH-SS」方式、想定与干渉距離は 40m です。 2,400MHz ～ 2,483.5MHz の全帯域を使用し、移動体識別装置の帯域を回避することはできません。

現品表示記号について



現品表示記号は、以下のことを表しています。 この無線機器は 2.4GHz 帯の電波を使用し、変調方式は「FH-SS」方式、想定与干渉距離は 10m です。 2,400MHz～2,483.5MHz の全帯域を使用し、移動体識別装置の帯域を回避することはできません。

Waste Electrical and Electronic Equipment (WEEE) Directive



In the European Union and the United Kingdom, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

Registration, Evaluation, Authorization of Chemicals (REACH) Directive

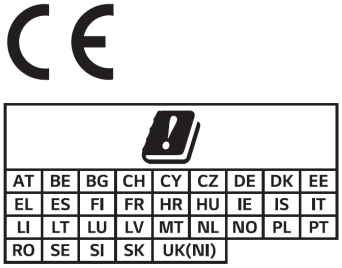
REACH (Registration, Evaluation, Authorization of Chemicals) is the European Union (EU) and the United Kingdom (UK) chemical substances regulatory framework. Information on substances of very high concern contained in Shure products in a concentration above 0.1% weight over weight (w/w) is available upon request.

US California Perchlorate (for Coin Cell Battery)

This product's coin cell battery may contain perchlorate and may require special handling when recycled or disposed. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Recycling Information

Please consider the environment, electric products and packaging are part of regional recycling schemes and do not belong to regular household waste.



IMXCPU5 Frequency Range and Output Power

Frequency Range	Output Power (Max.)
2402-2480 MHz	9.19 dBm
2412-2472 MHz	17.73 dBm
5150-5250 MHz	19.76 dBm
5250-5350 MHz	19.91 dBm
5725-5850 MHz	12.76 dBm
5945-6425 MHz	19.08 dBm

Wi-Fi 6E LPI: Restricted to indoor use only (including trains where metal coated windows are fitted and aircraft). Outdoor use (including in road vehicles) is not permitted.

Frequency band 5150 – 5250 MHz: Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted. Limited outdoor use: if used outdoors, equipment shall not be attached to a fixed installation or the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft system (UAS) is limited to within the 5170 – 5250 MHz band.

Frequency band 5250 – 5350 MHz: Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted. Outdoor use is not permitted.

Frequency band 5470 – 5725 MHz: Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft system (UAS) are not permitted.

中国 RoHS

部件名称	有害物质									
	Pb	Cd	Hg	Cr(VI)	PBB	PBDE	DBP	BBP	DIBP	DEHP
电路模块	X	O	O	O	O	O	O	O	O	O
金属模块	X	O	O	O	O	O	O	O	O	O
线缆及其组件	X	O	O	O	O	O	O	O	O	O
电源适配器*	X	O	O	O	O	O	O	O	O	O
锂电池组*	X	O	O	O	O	O	O	O	O	O

注 1: O: 表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。
X: 表示该有害物质至少在该部件某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。

注 2: 本产品大部分的部件采用无害的环保材料制造，含有有害物质的部件皆因全球技术发展水平的限制而无法实现有害物质的替代。

注 3: 以上未列出的部分,表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求

*:表示如果包含部分

臺灣 RoHS

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：微型計算機 Equipment name				型號（型式）：IMXCPU5 Type designation (Type)		
單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
塑膠外殼	o	o	o	o	o	o
PCB主機板	—	o	o	o	o	o
硬盤	o	o	o	o	o	o
風扇	o	o	o	o	o	o
電源適配器	—	o	o	o	o	o
其他綫材	o	o	o	o	o	o
附件	o	o	o	o	o	o

備考1.〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。
Note 1 : "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2 : "o" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.〝－〞係指該項限用物質為排除項目。
Note 3 : The "–" indicates that the restricted substance corresponds to the exemption.

FCC / IC ID

Contains FCC ID: PD9AX210NG

Contains IC: 1000M-AX210NG