

# Installation & Operation Guide

## RTI Intelligent Meetings

- UC-IVB-50 - 4K Intelligent Video Bar
- UC-MXT - Media Xchange™ Transmitter
- UC-IVB-EXM - Expansion Microphone
- UC-IVB-TM - TV Mount



# Table of Contents

|   |    |
|---|----|
| Introduction.....   | 3  |
| Features .....  | 3  |
| Package Contents .....  | 3  |
| Specifications.....   | 4  |
| Panel Description.....  | 5  |
| Wall Installation.....  | 7  |
| Applications .....  | 8  |
| 1. Laptop BYOM (Bring Your Own Meeting) 1.....                | 8  |
| 2. Laptop BYOM 2.....   | 9  |
| 3. Zoom Room & BYOM.....                                      | 10 |
| 4. Microphone Cascading.....                                  | 12 |
| Automatic Source Switching.....                               | 13 |
| Pairing with Bluetooth Remote Controller .....                | 13 |
| Wireless Screen Mirroring (BYOD – Bring Your Own Device)..... | 15 |
| 1. Using an Apple Device .....                                | 15 |
| 2. Using an Android Phone .....                               | 15 |
| 3. Using a Windows PC .....                                   | 15 |
| 4. Using UC-MXT Media Xchange™ Transmitter .....              | 16 |
| Web GUI .....   | 17 |
| 1. Overview.....  | 20 |
| 2. Camera .....   | 20 |
| 3. General Settings .....                                     | 22 |
| 4. Video Settings .....                                       | 24 |
| 5. Audio Settings.....  | 26 |
| 6. WiFi Settings.....   | 27 |
| 7. BOYD Settings.....   | 28 |
| 8. System Settings .....                                      | 30 |
| 9. Support.....   | 31 |
| Safety Suggestions.....                                       | 32 |
| Cleaning .....  | 33 |
| Federal Communications Commission Notice.....                 | 33 |
| Industry Canada Compliance Statement.....                     | 34 |
| Declaration of Conformity (DoC).....                          | 34 |
| Contacting RTI .....  | 34 |
| Service & Support .....                                       | 35 |
| Limited Warranty .....  | 35 |

## Introduction

The Intelligent Video Bar is the centerpiece of the RTI Intelligent Meetings Ecosystem. From huddle spaces to large conference rooms, RTI Intelligent Meetings enables the audio, video, and collaboration needed in today's hybrid work environment. Host more efficient, engaging, and productive meetings, elevating the quality of interactions and outcomes on your preferred conferencing platform..

## Features

### Advanced Hardware

- 4K UHD Collaboration – 2 windows for multiview with 4K UHD output.
- Microphone – 4 MEMS linear microphone arrays.
- Speaker Bar – 2 full range 8-Watt speakers with bass radiators.
- Intelligent Camera – 120° FOV 4K camera with AI tracking.

### Seamless Collaboration

- UC App Ready – UAC/UVC works with Zoom, Microsoft Teams, WebEx and more.
- Wired BYOM Connectivity – 4K UHD HDMI® input and USB 3.0 or USB-C (DP Alt mode and 60W PD).
- Wireless BYOD Connectivity – AirPlay® and Miracast support with Soft AP for internet sharing.
- Media Xchange™ Transmitter – Supports 2 UC-MXT wireless transmitters for click-and-go sharing.

### Control

- Integrated Control – Native RTI integration.
- Standalone – A built-in WEB interface and included remote control.
- Full-featured API for infinite integration options.

### Mounting Options

- Wall and tabletop mount included; TV mount sold separately.

### Expanded Options

- UC-IVB-TM – TV mount
- UC-IVB-EXM – Expansion microphone
- UC-MXT – Media Xchange™ wireless sharing transmitter

## Package Contents

|  |   |
|--|---|
| 1x UC-IVB-50 4K Intelligent Video Bar                    | 1 x Magnetic Lens Cap                     |
| 1x Bluetooth Remote Controller                           | 1x Wall Mounting Kit                      |
| 1x 16.4ft/5m 4K HDMI® 2.0 Cable                          | 1x DC 24V Power Adapter with US IEC cable |
| 1x 16.4ft/5m USB 3.0 USB-A to USB -B Cable               | 4x Drywall anchors                        |
| 1x USB to RJ-45 Adapter (Proprietary for UC-IVB-EXM use) | 4x Mounting Screws                        |

## Specifications

### Video

Interface ..... 1 x HDMI in, 1 x HDMI out, 1 x USB-C, 1 x USB-B, 1 x USB-A, 1 x Mic, 1 x GbE, 1 x DC  
Video Resolutions ..... 4K@30Hz (Max)  
Output Video Encoding ..... MJPEG / YUY2/NV12 / H.264 / H.265 | UVC 1.1

### Camera and Sensor

Lens ..... Fixed Focus  
Sensor ..... 8.0 MP CMOS  
White Balance.....Auto  
Backlight Compensation .....Auto  
Digital Noise Reduction .....2D, 3D Digital noise reduction supported  
Focal Length ..... 2.2mm ± 5%  
Viewing Angle ..... 120° FOV (Field of View)  
ePTZ ..... Supported | 5 x Digital Zoom  
HDR..... Supported  
Tracking Mode.....Auto Framing / Speaker Tracking /  
..... Presenter Tracking

### Audio

Microphone .....4 x MEMs Linear (180°) Microphone Arrays. Pick-up Range: 16.4ft/5m~26.2ft/8m  
DSP ..... ANS, AEC, AGC  
Speaker ..... 2 x 8W with Bass Radiators

### Communication and Control

HDMI..... HDMI 1.4, HDCP 2.2  
USB-C ..... USB 3.0 host with DP In and PD (60W max charging)  
USB-A ..... USB 3.0 Device  
USB-B..... USB 3.0 Host  
Micro USB-B..... Custom 10-Pin for UC-IVB-EXM  
USB Protocol..... UAC, UVC, USB HID  
Ethernet ..... 1 x RJ-45: 1000Base-T 1GbE  
WiFi ..... IEEE 802.11 a/b/g/n/ac  
BYOD ..... Media Xchange™, Airplay®, Miracast®  
Compatible OS ..... Windows 10 or above. Mac OS 10.15 or above  
Control Method..... RTI Integration, Web UI, Bluetooth Remote Controller, or TCP/IP API

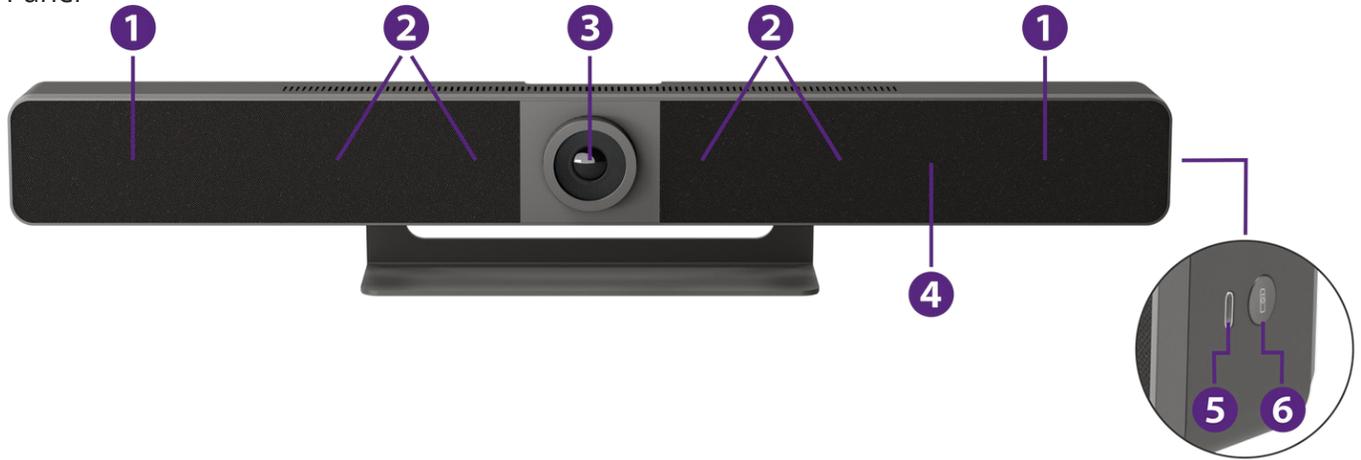
### General

Mounting..... Wall-Mount and Tabletop Mount included. TV Mount (sold separately)  
Power Supply..... DC 24V 5A  
Power Consumption..... 100W (Max)  
Dimensions (WxHxD)..... 27.44" x 3.06" x 3.13" / 697mm x 78 mm x 80mm  
Product Weight..... 5.324lb / 2.42kg  
Package Weight..... 13.68lb / 6.22kg  
Operating Temperature ..... +32 to + 104°F / 0 to + 40°C  
Storage Temperature ..... -4 to + 140°F / -20 to + 60°C  
Warranty ..... Three Years (Parts & Labor)

All features and specifications subject to change without notice

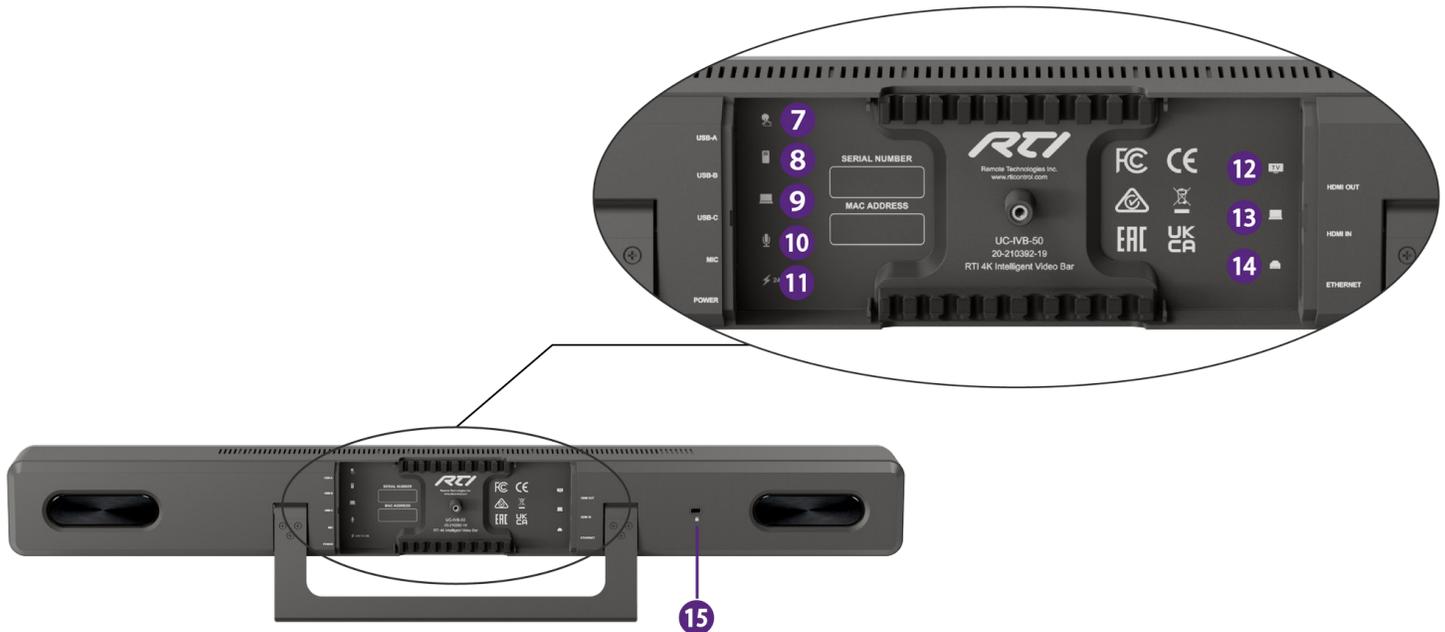
## Panel Description

Front Panel



| No. | Name           | Description   |
|-----|----------------|---|
| 1   | Speaker        | 2 x Full range speakers   |
| 2   | Microphone     | 4 x MEMs Linear microphone arrays   |
| 3   | Lens           | 4K Camera   |
| 4   | Status LED     | Blinking orange: The UC-IVB-50 is booting<br>Solid white: The UC-IVB-50 is working properly<br>Blinking white slow: The UC-IVB-50 is in standby state.<br>Blinking white quickly: Upgrade in progress<br>Breathing white: The UC-IVB-50 is in the sleep state<br>Solid red: Microphones are muted<br>Blinking blue: The UC-IVB-50 is in Bluetooth pairing state |
| 5   | USB-C          | Dedicated paring and updating port for the UC-MXT Media Xchange™ Transmitter  |
| 6   | Pairing Button | Press and hold this button for more than 2 seconds to start pairing the Bluetooth remote controller. Press this button 5 times within 2 seconds to factory default the UC-IVB-50.   |

## Back Panel



| No. | Name         | Description   |
|-----|--------------|---|
| 7   | USB-A        | USB 3.0 Type-A port<br>Connect to a USB device such as a touch screen   |
| 8   | USB-B        | USB 3.0 Type-B port<br>Connect to a room PC for meetings  |
| 9   | USB-C        | USB 3.0 Type-C port<br>USB PD: 60W max<br>Connect to a laptop for meetings  |
| 10  | External MIC | Connect to a UC-IVB-EXM expansion microphone using supplied adapter   |
| 11  | Power        | Connect the supplied DC 24V 5A power adapter  |
| 12  | HDMI® Out    | Connect to an HDMI® display device or capture card  |
| 13  | HDMI® In     | Connect to a laptop or PC   |
| 14  | Ethernet     | Connect to a network device (e.g. network switch, wireless router, computer, etc.) for AirPlay and LAN control (Web GUI & Telnet API) |
| 15  |              | Kensington security slot  |

## Wall Installation

**Note:** Before installation, please ensure the UC-IVB-50 is disconnected from a power source.

To install the UC-IVB-50 on a wall (drywall):

1. Using the wall hanging bracket as a guide, mark and then drill four (4) 1/4" pilot holes for the drywall anchors on the desired wall. Insert the 4 provided drywall anchors into the pilot holes in wall. Secure the wall hanging bracket to the wall by using the provided bracket mounting screws. Do not overtighten as this may damage the drywall and/or anchors.
2. Release the tabletop stand from the UC-IVB-50 by removing the 3 mounting screws located on both arms of the tabletop stand on the back of the UC-IVB-50. Please reserve these screws for the next step.
3. Use the mounting screws from the previous step to attach the wall hanging mount to the UC-IVB-50.
4. Attach the UC-IVB-50 to the wall by placing the wall hanging mount on the open lip of the wall hanging bracket. The wall hanging mount attached to the UC-IVB-50 can be tilted to make hanging easier and to adjust the angle of the UC-IVB-50 once it is attached to the wall.

1.



Drill holes for the Wall Hanging Bracket

2.



Remove Tabletop Stand

3.



Attach Wall Hanging Mount

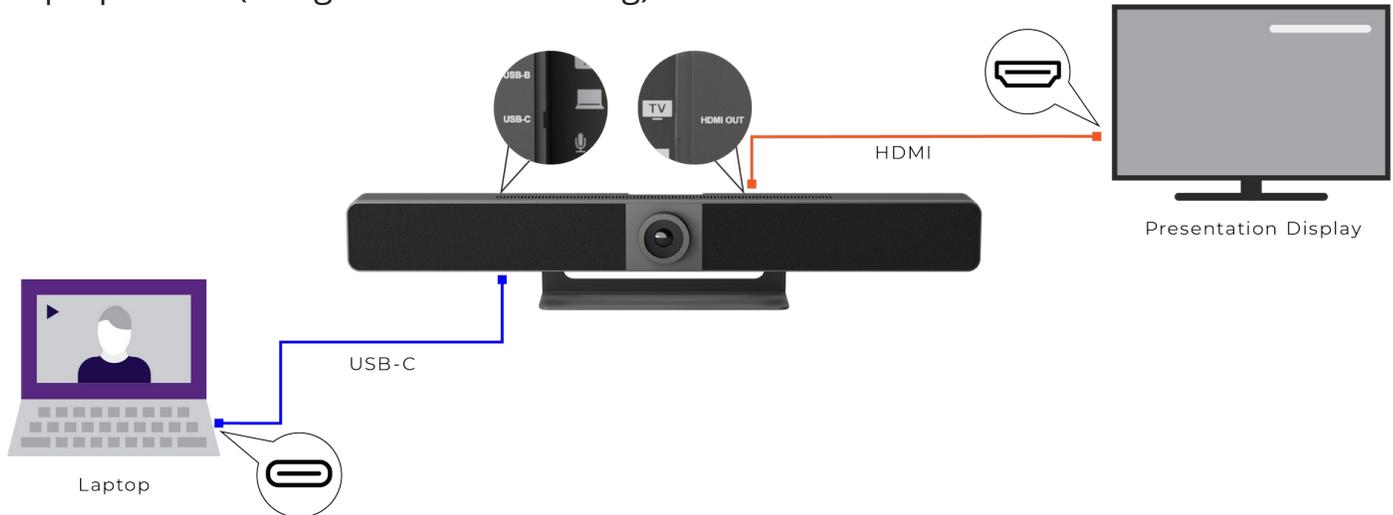
4.



Hang Video Bar on the Wall

## Applications

### 1. Laptop BYOM (Bring Your Own Meeting) 1



#### Description:

Small huddle/conference room where users can bring their laptop to host a remote meeting (Zoom, Teams, Go to Meeting, etc.) using only a single USB-C cable. The laptop will view the UC-IVB-50 as a secondary display device to allow sharing of media content, while the camera on the UC-IVB-50 will be available as a webcam device on the host laptop. Audio to and from the UC-IVB-50 (Speaker and Microphone) ensures a smooth and clear auditory experience. If the laptop supports USB-C PD (Power Delivery), the UC-IVB-50 will also provide power for charging up to 60W.

#### Connection:

- Connect a display by using an HDMI® cable from the HDMI® output port of the UC-IVB-50 to the HDMI® input port on the display.
- Connect a laptop by using a USB-C cable from the laptop's USB-C port to the USB-C port on the UC-IVB-50.

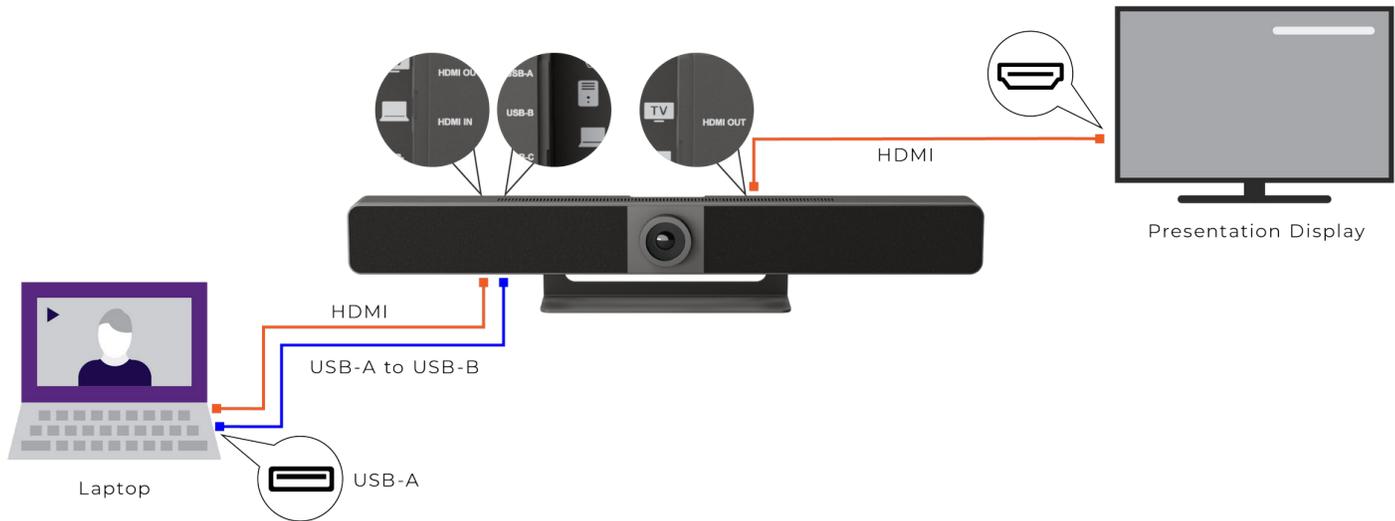
#### Requirements:

- Laptop (USB-C)
- Display (HDMI®)
- HDMI® 2.0 cable (one is supplied)
- Type-C AOC full function cable that supports DisplayPort 1.4, USB 3.0, USB 2.0 and PD (max 60W)

**Note:** After the UC-IVB-50 is connected to the laptop, it can be detected by the system and in specific applications under the following names:

- Model: **UC-IVB-50**
- Camera/Speaker/Microphone: **UC-IVB-50**

## 2. Laptop BYOM 2



### Description:

Small huddle/conference room where users can bring their laptop to host a remote meeting (Zoom, Teams, Go to Meeting, etc.). For laptops that do not carry a compatible USB-C port, an HDMI® and a USB-B to USB-A cable can be used to connect to the UC-IVB-50. The laptop will view the UC-IVB-50 as a secondary display device using the HDMI® connection and will allow sharing of media content, while the camera on the UC-IVB-50 will be available as a webcam device on the host laptop using the USB connection. Audio to and from the UC-IVB-50 (Speaker and Microphone) ensures a smooth and clear auditory experience.

### Connection:

- Connect a display by using an HDMI® cable from the HDMI® output port of the UC-IVB-50 to the HDMI® input port on the display.
- Connect the laptop's video to the UC-IVB-50 by using an HDMI® cable from the laptop's HDMI® output port to the HDMI® input port on the UC-IVB-50.
- Connect the UC-IVB-50's peripherals (camera, speaker, microphone) to the laptop by using a USB-B to USB-A cable from the USB-B port on the UC-IVB-50 to the USB-A port on the laptop.

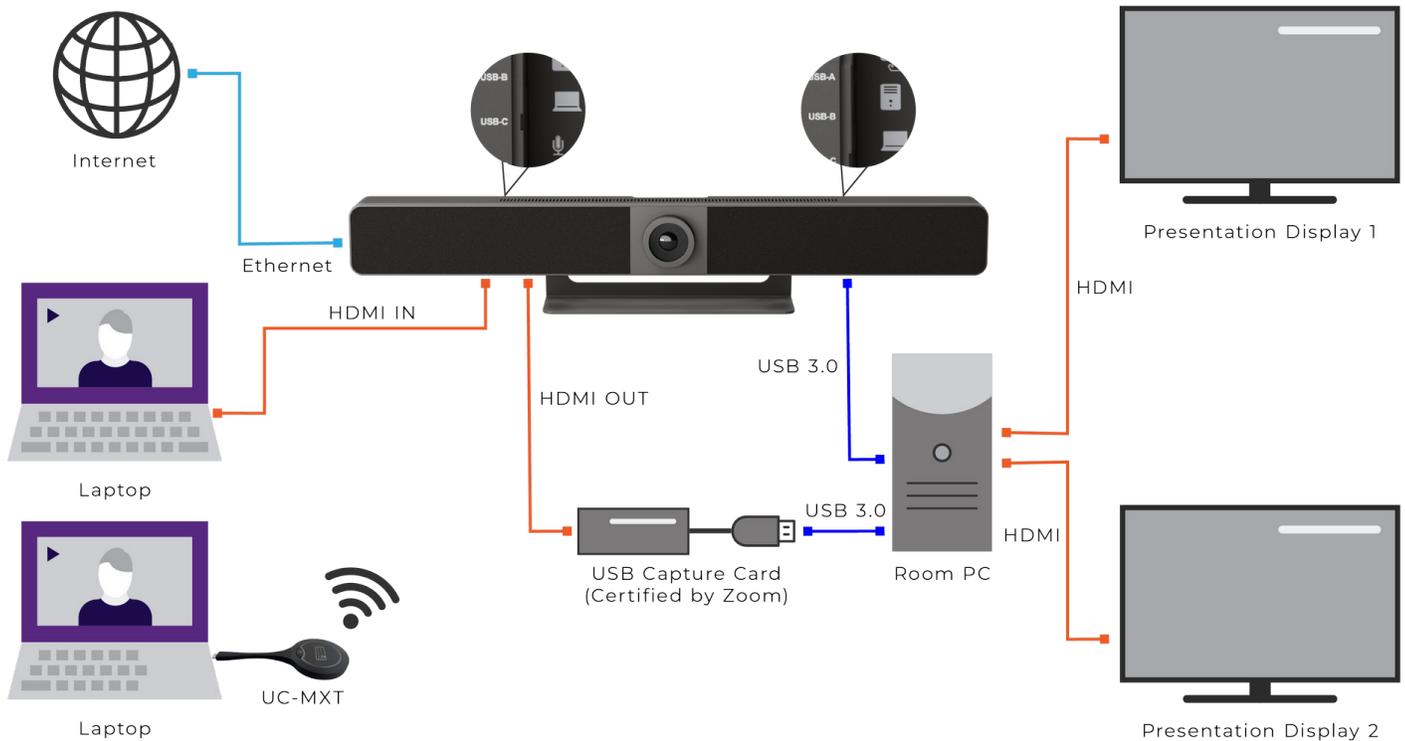
### Requirements:

- Laptop (HDMI® & USB Type-A)
- Display (HDMI®)
- Two HDMI® 2.0 cable (one is supplied)
- USB-B to USB-A 3.0 cable (one is supplied)

**Note:** After the UC-IVB-50 is connected to the laptop, it can be detected by the system and in specific applications under the following names:

- Model: **UC-IVB-50**
- Camera/Speaker/Microphone: **UC-IVB-50**

### 3. Zoom Room & BYOM



#### Description:

Medium to large conference room where multiple users can bring their laptops to share media content, while a local room PC hosts a remote meeting (Zoom, Teams, Go to Meeting, etc.). Local users can connect to the UC-IVB-50 using a variety of convenient options. Laptops and mobile devices can use either Miracast or AirPlay for a completely wireless experience, while the UC-MXT Media Xchange™ Transmitter is an available accessory that makes connecting laptops a simple click-and-share process; no software or configuration required. Connected devices will view the UC-IVB-50 as either the primary or secondary display where users can share their desired content. To share this media content with the local room PC, an HDMI® capture card/device is required. In-room displays are driven from the local room PC directly to allow visibility of all participants and shared media content allowable by the conferencing app in use. Camera and audio (Speaker and Microphone) are transferred between the local room PC and the UC-IVB-50 using a USB 3.0 cable, ensuring a smooth and complete A/V experience.

#### Connection:

- Connect one or more displays by using HDMI® cables from the HDMI® output ports of the local room PC to the HDMI® input ports on each display.
- Connect the UC-IVB-50 to the capture device by using an HDMI® cable from the HDMI® output port of the UC-IVB-50 to the HDMI® input port on the capture device.

- Connect the UC-IVB-50's peripherals (camera, speaker, microphone) to the local room PC by using a USB-B to USB-A cable from the USB-B port on the UC-IVB-50 to the USB-A port on the room PC.
- Connect laptops and mobile devices to the UC-IVB-50 using either HDMI®, Miracast, AirPlay, or a UC-MXT Media Xchange™ Transmitter. A maximum of 2 devices can be shared with the UC-IVB-50 concurrently.

**Requirements:**

- Laptop(s) (HDMI®)
- Mobile Device (Apple/Google/Microsoft)
- UC-MXT Media Xchange™ Transmitter (optional)
- Display(s) (HDMI®)
- HDMI® 1.4/2.0 Capture Card/Device
- HDMI® 2.0 cables (one is supplied)
- USB-B to USB-A cable (one is supplied)

**Note:** After the UC-IVB-50 is connected to the room PC, it can be detected by the system and in specific applications under the following names:

- Model: **UC-IVB-50**
- Camera/Speaker/Microphone: **UC-IVB-50**

## 4. Microphone Cascading

### Description:

In spaces where users are situated beyond the recommended range of the built-in MEMs array microphones, the UC-IVB-50 can be assisted by one or more UC-IVB-EXM Expansion Microphones (optional accessory) for more direct audio pickup. Each UC-IVB-EXM can be cascaded to an additional UC-IVB-EXM to cover large areas and/or multiple meeting participants.

### Connection:

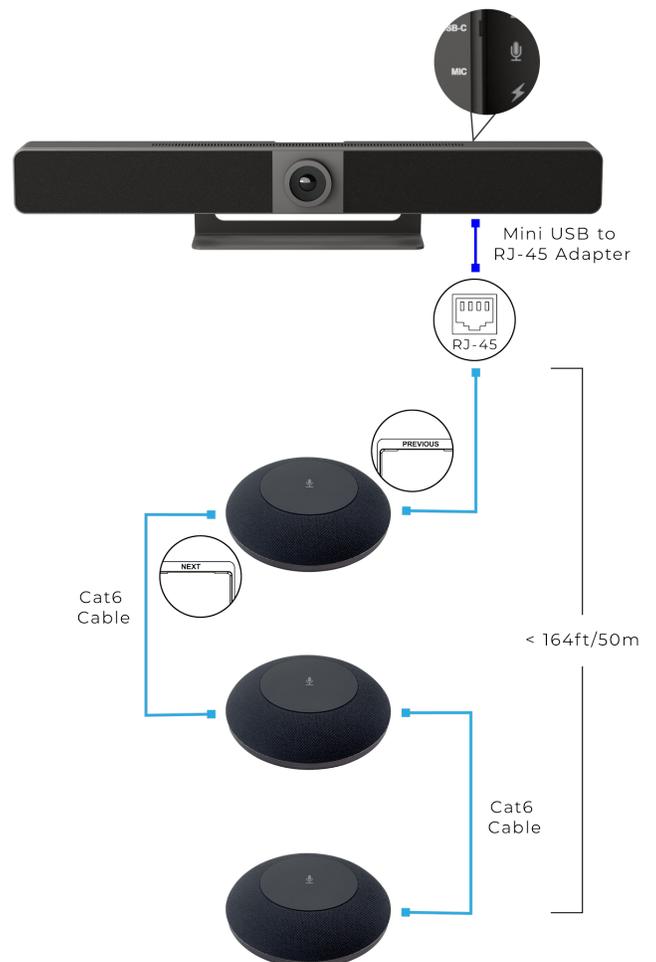
- Connect the supplied USB to RJ-45 adapter to the MIC port of the UC-IVB-50.
- Connect a UC-IVB-EXM to the UC-IVB-50 using a CAT6 cable from the PREVIOUS port of the UC-IVB-50 to the RJ-45 port of the USB to RJ-45 adapter.
- Additional UC-IVB-EXM Expansion Microphones can be added by connecting a CAT6 cable between the NEXT port of an existing UC-IVB-EXM to the PREVIOUS port of another downstream UC-IVB-EXM.

### Note:

- Each UC-IVB-EXM Expansion Microphone has an omnidirectional pickup pattern and a range of 9.3ft (3m).
- For cascading of up to three microphones, the total length of all CAT6 cables in use shall not exceed 164ft/50m.
- For cascading of up to five microphones, the total length of all CAT6 cables in use shall not exceed 82ft/25m.

### Requirements:

- UC-IVB-50 4K Intelligent Video Bar
- USB to RJ-45 adapter (one is supplied)
- UC-IVB-EXM Expansion Microphone (one or more)
- CAT6 cable



## Automatic Source Switching

The Automatic source switching function allows you to easily and quickly choose a wanted source.

1. If the Video → Output → Screen setting in the Web GUI is set to Single Screen (default setting), source switching follows the Last-In-First-Out rule. In Single Screen mode, if a new video input is detected, the UC-IVB-50 will switch to this source and output it to the display screen, disconnecting the previous source.

If two video sources are being displayed in Split Screen (Video → Output → Screen → Split Screen in the Web GUI), connecting a new video source input to the UC-IVB-50 will follow one of the following rules based on the currently active connections:

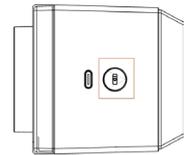
- a. 2 UC-MXT Media Xchange™ wireless transmitters: Connecting an HDMI® source will replace the oldest active (first connected) UC-MXT Media Xchange™ wireless transmitter.
  - b. 1 HDMI® Source & 1 UC-MXT Media Xchange™ wireless transmitter: Connecting a UC-MXT Media Xchange™ wireless transmitter will replace the HDMI®/USB-C video input source.
2. If all video sources are removed, the UC-IVB-50 will return to the default Guide Screen.

## Pairing with Bluetooth Remote Controller

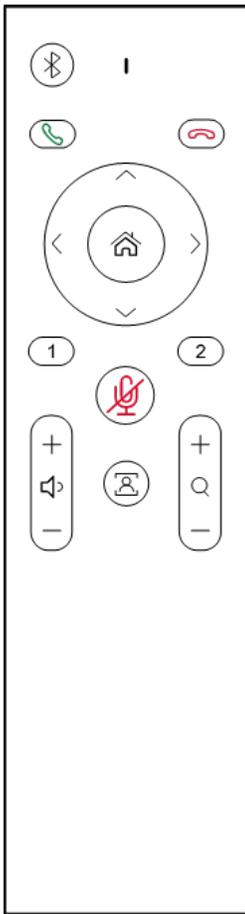
The UC-IVB-50 can be controlled by the included Bluetooth remote controller after they have been successfully paired with each other.

To pair the UC-IVB-50 with the Bluetooth remote controller:

1. Press and hold the pairing button  on the UC-IVB-50's right side for ~2 seconds to initiate the pairing mode. The status LED on the front of the UC-IVB-50 will blink blue, indicating that the pairing mode is active.
2. Press any button on remote controller. When pairing is successful, **"Remote Control Connected"** will appear on the display connected to the UC-IVB-50. The remote controller is now ready for use.



The following briefly introduces the functions of the remote controller buttons.



| Buttons     | Description   |
|-------------|---|
| Bluetooth   | Reserved for future use   |
| Answer      | Reserved for future use   |
| Hang Up     | Reserved for future use   |
| Home        | <ul style="list-style-type: none"> <li>Press to return the camera to its default view (available only when Tracking mode is off)</li> <li>Press and hold the button for ~2 seconds to display the OSD that includes IP address, model name, etc.</li> </ul>                               |
| Navigation  | Press the directional buttons to reframe the camera using the ePTZ function (only available when Tracking mode is off)  |
| Presets     | <ul style="list-style-type: none"> <li>Press and hold either preset 1 or 2 for ~3 seconds to save the current camera view to that preset</li> <li>Press either preset 1 or 2 to switch the camera view to the saved preset position (Available only when Tracking mode is off)</li> </ul> |
| Mute/Unmute | Press to toggle all microphones between mute and unmute.  |
| Volume      | <ul style="list-style-type: none"> <li>Press the + or - buttons to adjust the volume up or down</li> <li>Press and hold the + or - button to continuously adjust the volume up or down</li> </ul>   |
| Tracking    | Press to cycle between the available camera tracking modes: <ul style="list-style-type: none"> <li>Auto Framing</li> <li>Speaker Tracking</li> <li>Off</li> </ul>   |
| Zoom        | <ul style="list-style-type: none"> <li>Press the + or - button to zoom the camera view in or out (Maximum 5x zoom)</li> <li>Press and hold the + or - button to zoom the camera view continuously in or out</li> </ul>  |

## Wireless Screen Mirroring (BYOD – Bring Your Own Device)

The UC-IVB-50 allows users to share multimedia content wirelessly from their mobile devices and laptops using AirPlay, Miracast, or the UC-MXT Media Xchange™ Transmitter to the HDMI® display connected to the UC-IVB-50. For convenience and easy reference, a brief summary of the following connection instructions is displayed on the default Guide Screen of the UC-IVB-50.

### 1. Using an Apple Device

**Step 1:** Enable the Wi-Fi or WLAN feature of your Apple device.

**Step 2:** Connect your iPhone/iPad/Mac device via Wi-Fi to the same network that the UC-IVB-50 is connected to, or if the UC-IVB-50 is not attached to a network, connect to the Soft AP (access point) Wi-Fi network that is enabled on the UC-IVB-50.

**Step 3:** Open Control Center on your Apple device, tap  to select the mirroring device (default: UC-IVB-50) from the pop-up menu.

### 2. Using an Android Phone

Samsung Galaxy series example:

**Step 1:** Enable the Wi-Fi or WLAN feature of your mobile device.

**Step 2:** On your mobile device, swipe down from the top and tap  Smart View or  Wireless Projection to select appropriate mirroring device (default: UC-IVB-50) from the pop-up CONNECT menu.

### 3. Using a Windows PC

Windows 10 or Windows 11 example:

**Step 1:** Enable the Wi-Fi or WLAN feature of your PC.

**Step 2:** On your PC, press the combination keys “ + K” to select appropriate mirroring device (default:UC-IVB-50) from the pop-up menu.

#### 4. Using UC-MXT Media Xchange™ Transmitter

Pair the UC-MXT to the UC-IVB-50 by connecting the transmitter to the USB-C port located on the right side of the UC-IVB-50.

- The indicator ring on the UC-MXT will begin flashing white and the message “Pairing Started” will appear on the connected HDMI® screen indicating that pairing is in progress.
- Once the indicator light becomes solid, the pairing process will be complete and “Pairing Succeeded” will be indicated on-screen.
- Remove the UC-MXT from the UC-IVB-50.

**Important Note:** Please note that this pairing process only needs to be completed once, or re-paired after the UC-IVB-50 device name has been modified.

**Step 1:** Connect the UC-MXT to the USB-C port on a laptop or mobile device.

- a) The indicator ring on the UC-MXT will begin flashing as it connects wirelessly to the UC-IVB-50.
- b) Once the indicator light becomes solid, the UC-IVB-50 will be linked to the UC-IVB-50 and media sharing can begin.

**Step 2:** Start media sharing by pressing the  button located on the face of the UC-MXT. The UC-MXT will appear as an additional display on the connected laptop/mobile device. This display can be set like any other, and can mirror or extend the primary display, but it will be dependent on the capabilities of the device that it is connected to.

- a) The indicator ring will blink dimly white while media sharing is in progress.
- b) To temporarily pause screen sharing, press the  button on the face of the UC-MXT.
- c) To un-pause and resume media sharing, press the  button again.
- d) If using Split Screen mode, long-pressing (~3 seconds) the  button will switch to Single View mode and display the media in full screen.
- e) To stop media sharing, press the  button. The UC-MXT will still be linked to the UC-IVB-50 and media sharing can be started again by pressing the  button.

**Note:** Up to 2 UC-MXT Media Xchange™ Transmitters can be linked and used with each UC-IVB-50.

## Web GUI

The Web based GUI (graphical user interface) designed for the UC-IVB-50 allows for all administrative and configuration options for successful deployment and operation. It can be accessed through a modern browser, e.g. Chrome, Safari, Firefox, etc.

To access the Web GUI page:

1. To achieve quick and easy access to the Web GUI of the UC-IVB-50, please ensure that a Local Area Network (LAN) with access to a DHCP server is available. This will ensure valid IP address assignment for communication between a local PC and the UC-IVB-50.
2. Connect the Ethernet port on the UC-IVB-50 to a local area network using a CAT-5e/6/6a cable.
3. Connect a local PC to the same network as the device.
4. The UC-IVB-50 can be accessed using its mDNS address. Please Input the following URL into the browser and press Enter:

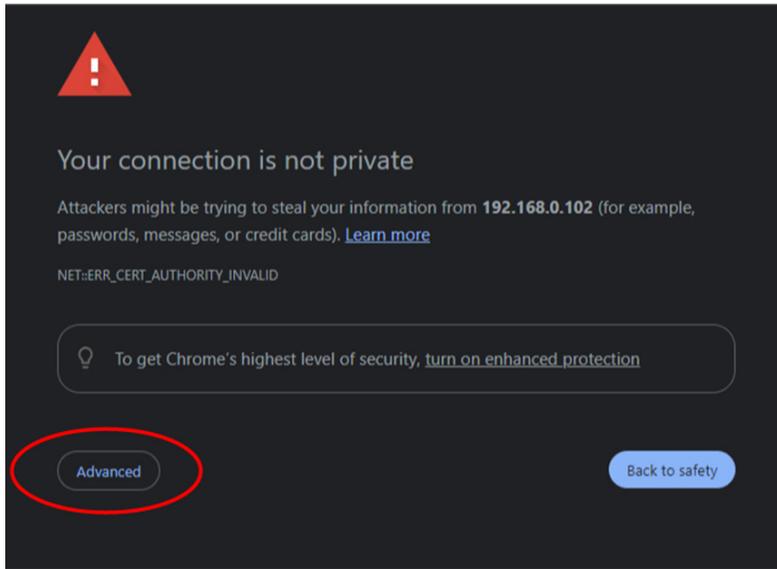
mDNS URL: **UC-IVB-50xxxx.local**

The “xxxx” in the URL is the last 4 digits of the UC-IVB-50 MAC address which can be found on either the back of the unit (under the cable cover plate), or on the Quick Start Guide included with the product. For example, if the MAC address is AA:BB:CC:DD:EE:FF, the mDNS address is “UC-IVB-50EEFF.local”.

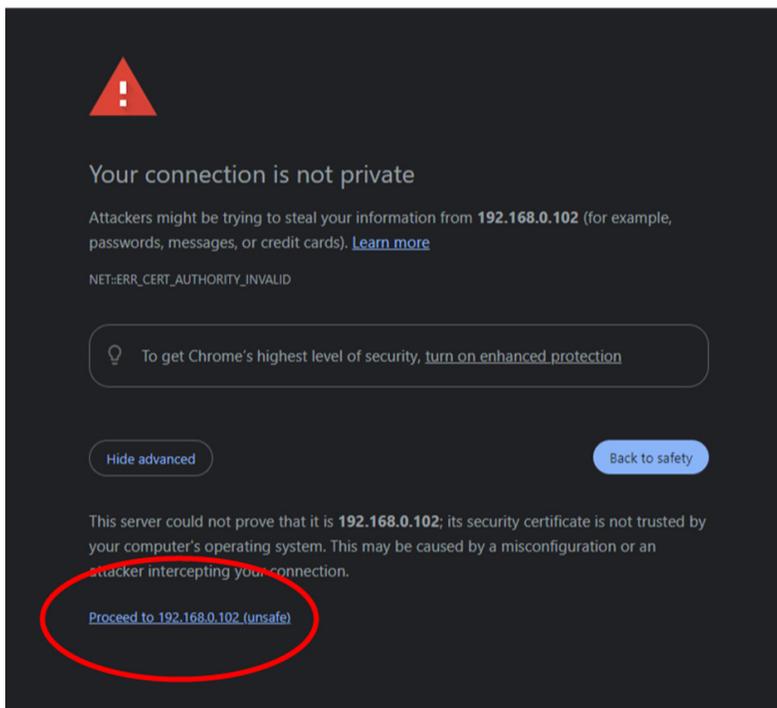
**Note:** The default IP mode for this device is DHCP.

5. By default, the UC-IVB-50 Web GUI is only accessible by a secure HTTPS connection. The browser will automatically be redirected to use the appropriate URL. You may encounter a privacy error message. If using the mDNS address to access the UC-IVB-50, the correct device should have been reached and it is safe to proceed. If directly accessing the UC-IVB-50 by IP address, please consult your IT administrator to verify the IP address that corresponds to the UC-IVB-50 hardware. Most browsers will allow a security notification to be acknowledged and access to the URL can then proceed. Please consult your browser’s operation instructions on how to allow access to a URL that displays a certification error.

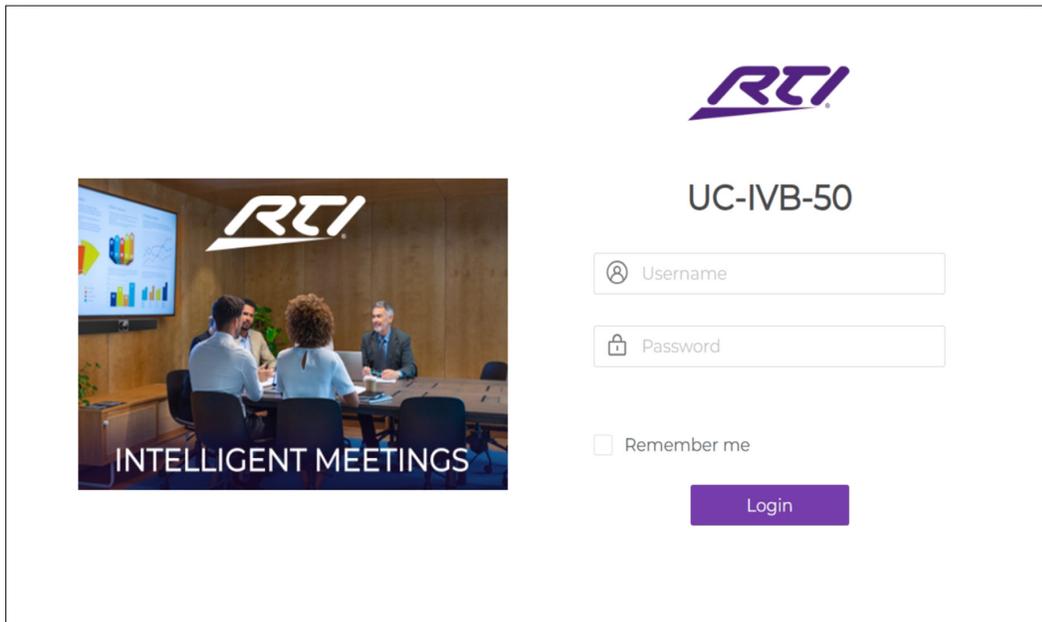
The below example instructions are for the certification error seen in a Google Chrome browser:



Press the Advanced button to expose the option to proceed.



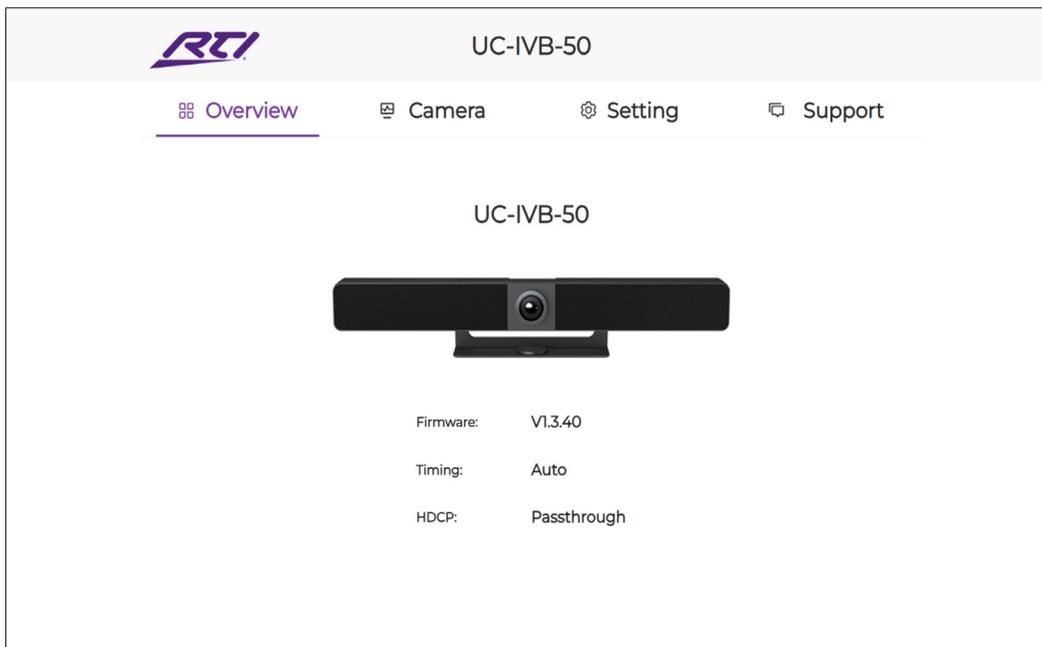
Press the "Proceed to..." button to continue to the Web GUI of the UC-IVB-50.



6. Input the default username and password and click **Login** to enter the main page.

Default username: **admin**

Password: **RTI123**



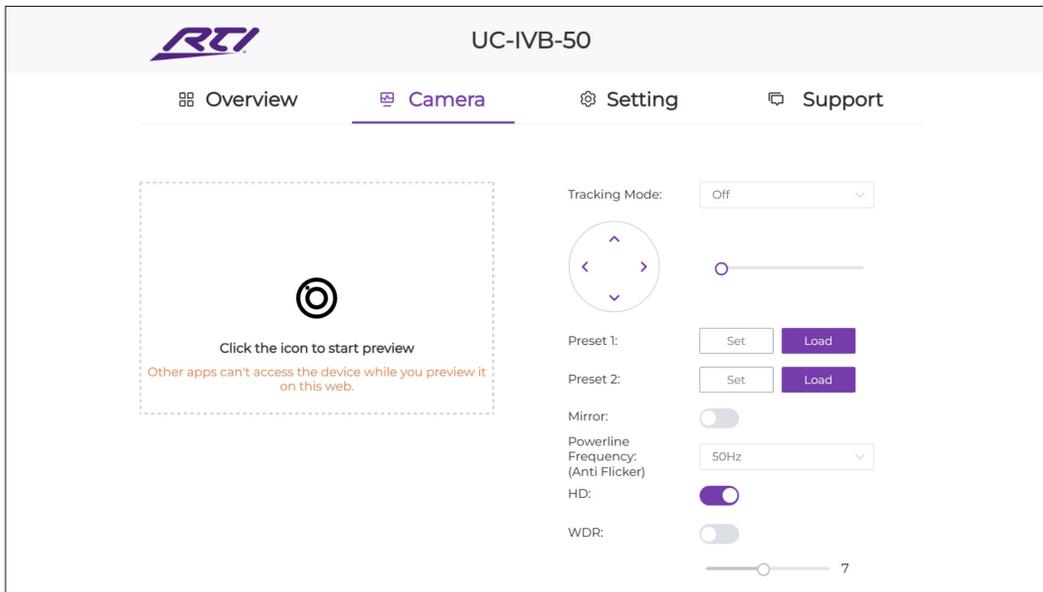
The Web GUI includes the Overview, Camera, Settings, and Support tabs.

- Overview – Displays basic information of the UC-IVB-50.
- Camera – Settings for various camera features.
- Settings – Settings for video, Wi-Fi, BYOD, etc.
- Support – Conduct firmware updates and view more detailed information.

## 1. Overview

This page displays the current firmware version, current HDMI® output video timing in use, and the current HDCP settings for the UC-IVB-50.

## 2. Camera



| GUI Elements      | Description / Options  |
|-------------------|--|
| Tracking Mode     | <ul style="list-style-type: none"> <li>Auto Framing (default setting): Camera tracks group participants automatically.</li> <li>Speaker Tracking: Camera tracks speakers automatically.</li> <li>Presenter Tracking: Camera tracks the first recognized presenter automatically.</li> <li>Off (manual ePTZ control)</li> </ul> |
| Position and Zoom | <p>The position and zoom controls (ePTZ) are only available when the Tracking Mode is set to Off.</p> <ul style="list-style-type: none"> <li>Use the directional buttons to pan the camera, up, down, left, and right.</li> <li>Use the slider bar to zoom in and out of the image (up to 5x zoom maximum)</li> </ul>          |
| Tracking Effect   | <p>Tracking effect is only available when Auto Framing is selected.</p> <ul style="list-style-type: none"> <li>Smooth (default setting): The camera pans smoothly while tracking participants.</li> <li>Immediate: The camera quickly switches from one participant to another in the frame.</li> </ul>                        |

| GUI Elements  | Description / Options   |
|---|---|
| Tracking Speed  | Tracking speed is only available when Auto Framing is selected. <ul style="list-style-type: none"> <li>• Slow (default setting)</li> <li>• Normal</li> <li>• Fast</li> </ul>  |
| Mirror  | Mirror image function. <ul style="list-style-type: none"> <li>• On: Flips the image horizontally.</li> <li>• Off (default setting)</li> </ul>   |
| Powerline Frequency (Anti Flicker)  | Set the power frequency standard in your region to prevent flickering in the video that can be introduced by some light sources (e.g. LED lights). <ul style="list-style-type: none"> <li>• 60Hz (default setting): e.g. USA, Canada</li> <li>• 50Hz: e.g. UK, Australia</li> </ul> |
| HD  | <ul style="list-style-type: none"> <li>• On: Increases the clarity of the camera image but may not be compatible with all software platforms.</li> <li>• Off (default setting): Disabled for maximum compatibility.</li> </ul>  |
| WDR   | Adjust the WDR (Wide Dynamic Range) slider to maximize the contrast ratio that will help to capture both the brightest and darkest areas of a given lighting environment.   |
|  | Click this icon to enable the in-browser camera preview.<br><br>Note: Use this feature only for framing and positioning of the camera as this will disable the camera output to externally connected devices.   |

### 3. General Settings

UC-IVB-50

Overview
Camera
Setting
Support

▼ General Settings

**Device Name**

Device Name:

The device name must be 1 to 20 characters long (letters, numbers, '\_' or '-' only)

Note: Changing the device name will modify the SSID. The UC-MXT must be re-paired to the UC-IVB-50.

**IP Settings**

IP Method:  Static  DHCP

IP Address:

Subnet:

Gateway:

Note: LAN Module will automatically reboot after changing Network setting.

**IP Conflict Detection**

IP Conflict Detection:

**HTTPS**

HTTPS:

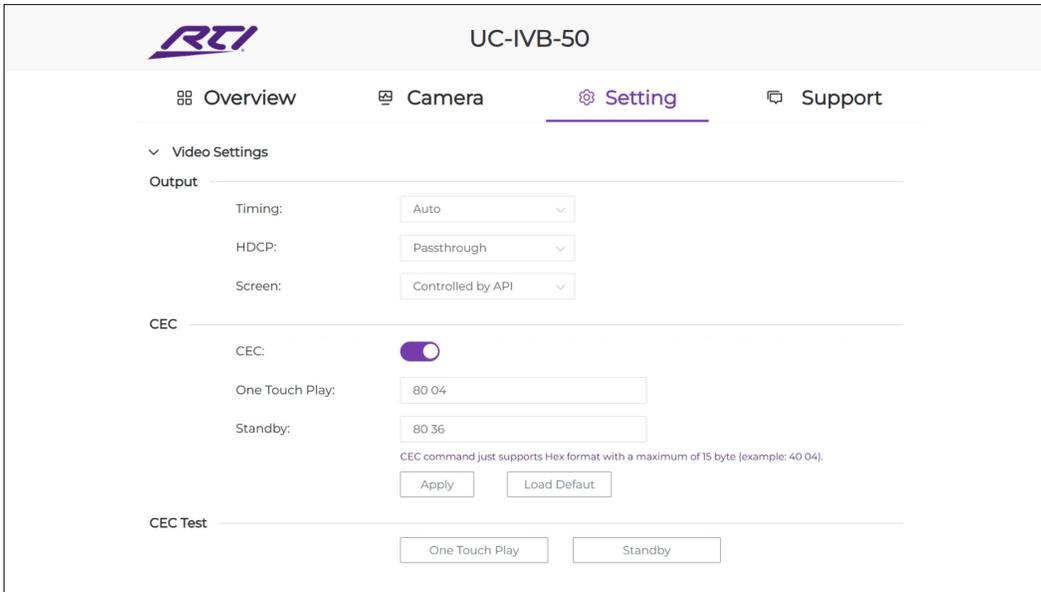
HTTPS Certificate:

Private Key Password:

| GUI Elements | Description / Options   |
|--------------|---|
| Device Name  | Rename the device to a more appropriate or familiar name.<br>Note: The name must be 1~20 characters in length and can only including letters, numbers, "_" or "-".<br>By default, it's set to the product name <b>UC-IVB-50</b> . <ul style="list-style-type: none"> <li>Apply: Click to save and perform above settings.</li> </ul> <b>Note:</b> The device name is also used as the Soft AP (Access Point) SSID. If you modify the device name, you will need to re-pair any UC-MXT Media Xchange™ Transmitters with this device as well. |
| IP Method    | <ul style="list-style-type: none"> <li>Static</li> <li>DHCP (default setting)</li> </ul>  |
| IP Address   | This option is only available when the IP Method is set to <b>Static</b> . <ul style="list-style-type: none"> <li>Manually set the IP address</li> </ul>  |

| GUI Elements                    | Description / Options  |
|---------------------------------|--|
| Subnet                          | This option is only available when the IP Method is set to Static. <ul style="list-style-type: none"> <li>Manually set the subnet mask</li> </ul>  |
| Gateway                         | This option is only available when the IP Method is set to Static. <ul style="list-style-type: none"> <li>Manually set the gateway address for the UC-IVB-50 to communicate with another network</li> </ul>  |
| Apply                           | Click to save and apply any IP setting changes. The LAN module will reboot automatically once the IP settings are saved.   |
| IP Conflict Detection           | Enable this option to detect when a conflicting IP address has been detected on the network that can cause issues in operation of the UC-IVB-50. When this option is enabled, a brief OSD message will appear on the connected display when a conflict has been detected and will continue to appear at timed intervals until the issue is corrected. When using DHCP as the IP method, rebooting the UC-IVB-50 should resolve the issue as a new IP address that is not in conflict should be assigned. |
| HTTPS                           | <ul style="list-style-type: none"> <li>On (Default): Use encrypted HTTP to access the Web GUI. Click the Apply button to immediately redirect the browser to the HTTPS Web page.</li> <li>Off: Use unencrypted HTTP to access with the Web GUI. Click the Apply button to immediately redirect the browser to the HTTP Web page.</li> </ul>  |
| HTTPS Certificate               | Use this option to open an explorer window and select a custom SSL certificate to upload to the UC-IVB-50.   |
| Private Key Password            | Please enter the private key password used in conjunction with the SSL certificate that is being uploaded.   |
| Upload                          | Press the Upload button to send the selected SSL certificate and encrypted password to the UC-IVB-50.  |
| Restore the Default Certificate | Use this button to restore the default factory certificate that is provided by the UC-IVB-50.  |

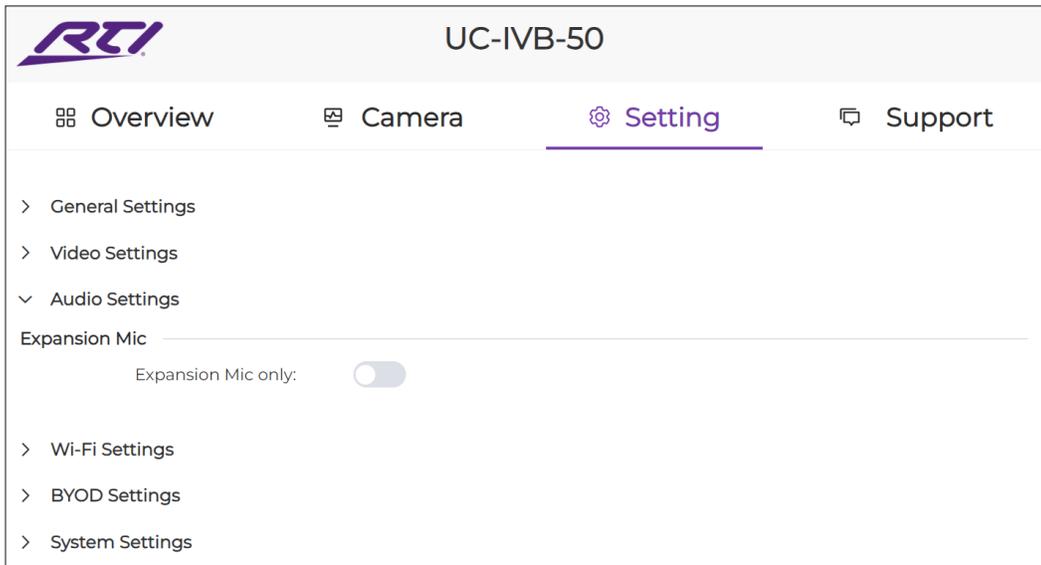
## 4. Video Settings



| GUI Elements | Description / Options   |
|--------------|---|
| Timing       | Set the resolution for the HDMI® output of the UV-IVB-50: <ul style="list-style-type: none"> <li>• Auto (default setting): Select to output the maximum resolution supported by the display based on the connected display's EDID.</li> <li>• Resolution range list: Select a specific resolution from the dropdown menu to output a fixed resolution.</li> </ul>   |
| HDCP         | Set the HDCP schema for the device's HDMI® output. Four options are offered: <ul style="list-style-type: none"> <li>• Pass-through (default setting): Follows the input sources HDCP version on the HDMI® output.</li> <li>• HDCP 2.2: Always encrypts output with HDCP 2.2</li> <li>• HDCP 1.4: Always encrypts output with HDCP 1.4</li> <li>• Off: Disable output encryption (Note that the video output will be disabled if HDCP encryption is detected in the source signal, following HDCP rules).</li> </ul> |
| Screen       | <ul style="list-style-type: none"> <li>• <b>Single Screen</b> (default setting): Only a full screen source will be displayed on-screen at any given time. Newly connected sources will be given priority using the first in last out rule.</li> <li>• <b>Split Screen</b>: Dual view 2 sources on the screen at the same time.</li> </ul>   |

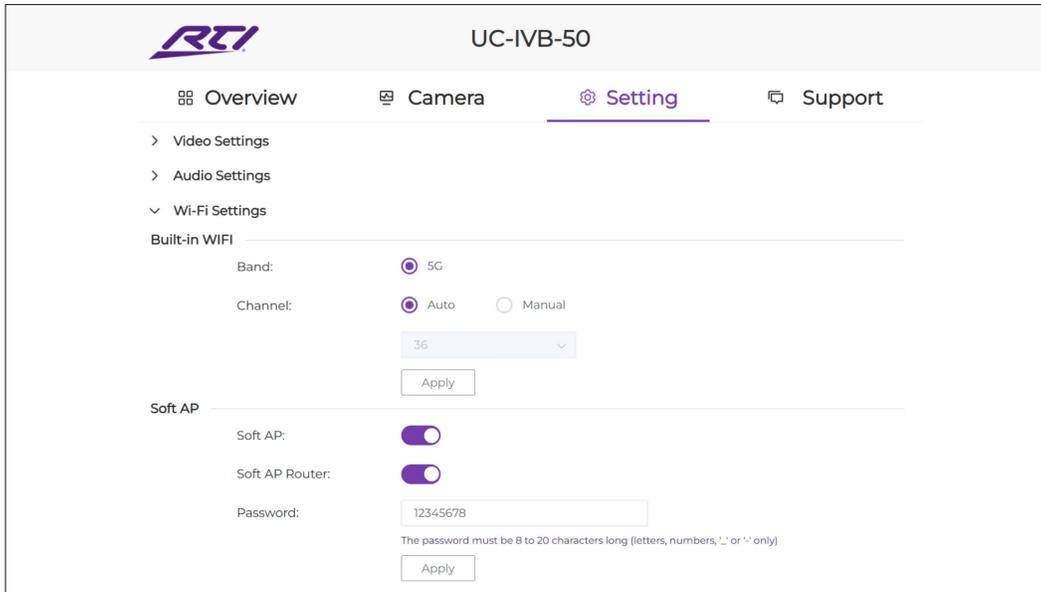
| GUI Elements   | Description / Options  |
|----------------|--|
| CEC            | <ul style="list-style-type: none"> <li>• On (default setting): Enable CEC control. When this feature is enabled, the UC-IVB-50 will send a CEC command (One Touch Play) to automatically turn the connected HDMI® display on when the video bar wakes from its standby state. When the UC-IVB-50 senses that no active sources have been connected for 60 seconds, the UC-IVB-50 will send a CEC command (Standby) to turn the connected HDMI® display off. Wake triggers:               <ul style="list-style-type: none"> <li>› Wired source connected, HDMI® or DP</li> <li>› USB connected, USB-B or USB-C</li> <li>› Any key from the remote</li> <li>› API command</li> </ul> </li> <li>• Off: Disable CEC control.</li> </ul> |
| One Touch play | <ul style="list-style-type: none"> <li>• Set the CEC one touch play command in hex of the controlled display device. For more information about the command, please see the user guide of your display device.</li> <li>• By default, it's set as "80 04".</li> </ul>  |
| Standby        | <p>Set the CEC standby command in hex of the controlled display device. For more information about the command, please see the user guide of your display device.</p> <p>By default, it's set as "80 36".</p>  |
| Apply          | Click to save and apply any setting changes.   |
| Load Default   | Click to load the default CEC settings.  |
| CEC Test       | <ul style="list-style-type: none"> <li>• One Touch Play: Click to test the display on CEC command.</li> <li>• Standby: Click to test the display off CEC command.</li> </ul>   |

## 5. Audio Settings



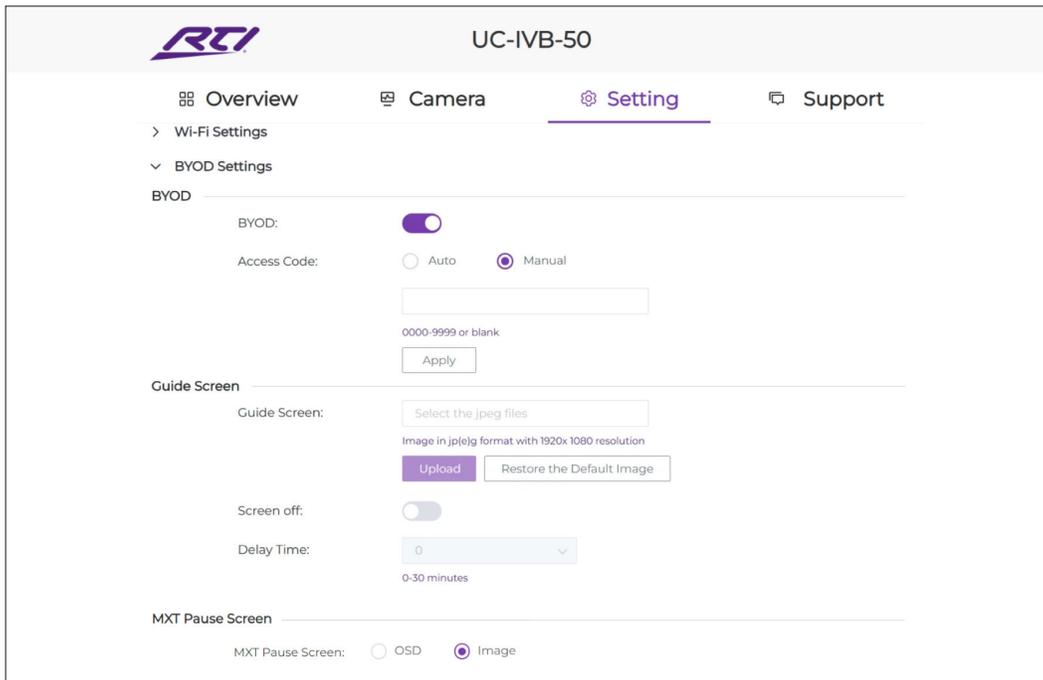
| GUI Elements  | Description / Options   |
|---------------|---|
| Expansion Mic | <ul style="list-style-type: none"> <li>On: When this feature is enabled, the internal MEMs microphones on the UC-IVB-50 will be disabled and audio will only be sourced from connected UC-IVB-EXM expansion microphones.</li> <li>Off (Default): All available microphones will be used to source audio.</li> </ul> |

## 6. WiFi Settings



| GUI Elements   | Description / Options   |
|----------------|---|
| Band           | 5 GHz   |
| Channel        | <ul style="list-style-type: none"> <li>Auto (default setting): The UC-IVB-50 will select the best wireless channel automatically based on the saturation of surrounding Wi-Fi networks.</li> <li>Manual: Manually assign a wireless channel for the UC-IVB-50.</li> </ul>   |
| Soft AP        | <ul style="list-style-type: none"> <li>On (default setting): This enables the Soft AP (Access Point) which is a local hotspot used to connect wireless devices for use with screen mirroring and external network access.</li> <li>Off: Disables the local Soft AP.</li> </ul>  |
| Soft AP Router | <ul style="list-style-type: none"> <li>On (default setting): This enables routing features for the Soft AP that will allow wirelessly connected devices to have access to the LAN that the UC-IVB-50 is connected to. The most common reason for enabling this option is to grant internet access to wireless devices connected to the Soft AP, provided internet access is available on the LAN that the UC-IVB-50 is connected to.</li> <li>Off: Disables routing for the Soft AP.</li> </ul> |
| Password       | Configure the soft AP password. The password must contain between 8 and 20 alphanumeric characters, no spaces and can contain "_" and "-" special characters. By default, the password is set to "12345678".  |
| Apply          | Click to save and apply any setting changes.  |

## 7. BOYD Settings



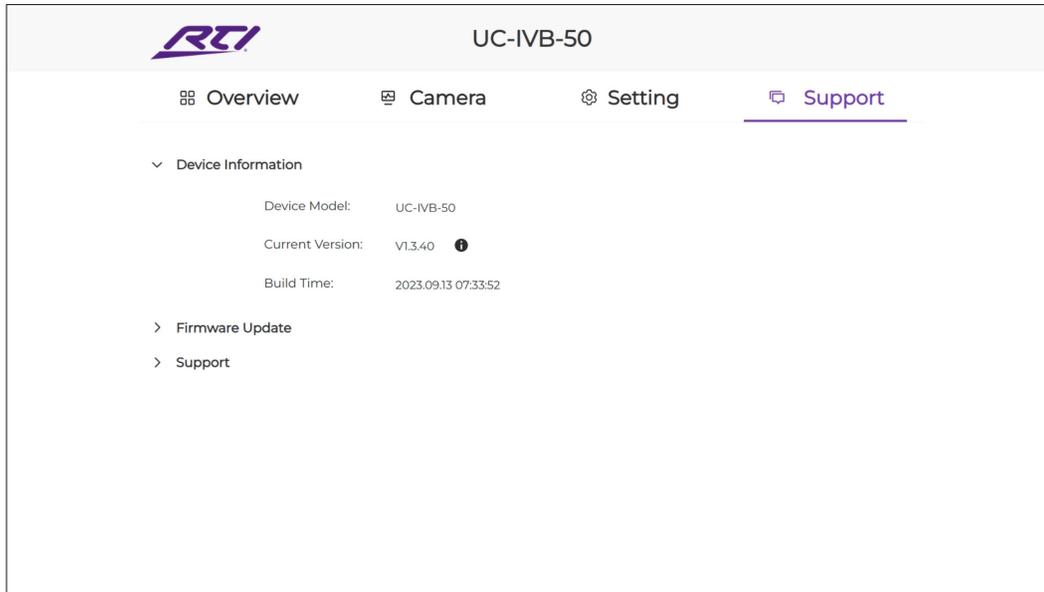
| GUI Elements | Description / Options  |
|--------------|--|
| BYOD         | <ul style="list-style-type: none"> <li>On (default setting): This enables access to the AirPlay and Miracast wireless screen mirroring feature.</li> <li>Off: Disables AirPlay and Miracast wireless screen mirroring access.</li> </ul>   |
| Access Code  | <p>The access code is used to help prevent users from accidentally connecting to an unintended device as well as protecting the UC-IVB-50 from an unauthorized access.</p> <ul style="list-style-type: none"> <li>Auto: The device will randomly generate a four-digit access code in the following cases:                             <ul style="list-style-type: none"> <li>&gt; The device switches to the Guide Screen.</li> <li>&gt; The device reboots.</li> </ul> </li> <li>Manual: Select to allow manual input of a four-digit numeric code. By default, the code is set as blank.</li> </ul> |
| Apply        | Click to save and apply any setting changes.   |
| Guide Screen | A user generated Guide Screen image can be uploaded to the UC-IVB-50 to replace the default Guide Screen for customization purposes. Please refer to the product page on the RTI website for localization and other templates.   |

| GUI Elements     | Description / Options   |
|------------------|---|
| Upload           | Click to open a window where a Guide Screen image from the local computer can be selected. The image must be in the jp(e)g format with a resolution of 1920x1080.   |
| Screen Off       | <ul style="list-style-type: none"> <li>• On: Send a CEC Standby command to power off the display after no active sources are detected and the time set in the Delay Time setting has expired. CEC on the display must be enabled for this feature to work.</li> <li>• Off: Disables the automatic display off feature.</li> </ul>   |
| Delay Time       | Used in conjunction with the Screen Off feature, set a delay time for when no sources are detected.   |
| MXT Pause Screen | <p>Choose the privacy mask type that is displayed on screen when pausing content sharing with a UC-MXT Media Xchange Transmitter.</p> <ul style="list-style-type: none"> <li>• OSD: This option will freeze the currently displayed video content that is being shared from the UC-MXT when the pause button is pressed. A Pause icon will be displayed prominently in the center of the screen to indicate video sharing is paused.</li> <li>• Image (Default Setting): When the pause button on a UC-MXT is pressed while actively sharing content, a blurred image will replace the shared content coupled with a prominent message (Sharing Paused) to indicate video sharing is paused. This will ensure privacy of the source device's screen while sharing is paused.</li> </ul> |

## 8. System Settings

| GUI Elements | Description / Options  |
|--------------|--|
| Login        | Use these fields to change the current admin account password. The password must be between 4 and 16 alphanumeric characters without spaces or special characters. The default password is "RTI123".                                 |
| Apply        | Click to save and apply any setting changes.   |
| Telnet Echo  | <ul style="list-style-type: none"> <li>On: Enable unsolicited feedback of all changes that occur on the UC-IVB-50 via telnet</li> <li>Off: Disable all unsolicited feedback.</li> </ul>  |
| System       | <ul style="list-style-type: none"> <li>Factory Reset: Click this option to return the UV-IVB-50 to its factory default settings for all options.</li> <li>Reboot: Click this option to perform a reboot of the UC-IVB-50.</li> </ul> |

## 9. Support



| GUI Elements       | Description / Options   |
|--------------------|---|
| Device Information | This sections displays the model number, current firmware version, and build date for the current firmware.   |
| Firmware Update    | Click on the open field "Select the firmware files" to open a window where the firmware update file can be selected (tar.gz compressed file format). Once the firmware has been selected, click on the "Upgrade & Reboot" button to start the update process. A progress bar will be shown displaying the current progress. |
| Support            | Access useful support assets that are external links to the user manual and the RTI Dealer portal.  |

## Safety Suggestions

### **Read and Follow Instructions**

Read all safety and operating instructions before operating the unit.

### **Retain Instructions**

Keep the safety and operating instructions for future reference.

### **Heed Warnings**

Adhere to all warnings on the unit and in the operating instructions.

### **Accessories**

Only use attachments/accessories specified by the manufacturer.

### **Heat**

Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

### **Power**

Unplug this apparatus during lightning storms or when unused for long periods of time.

### **Power Sources**

Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

### **Power Sources**

Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

### **Power Cord Protection**

Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

### **Water and Moisture**

Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

### **Object and Liquid Entry**

Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

### **Servicing**

Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

### Damage Requiring Service

The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

## Cleaning

To clean this product, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces.

**NOTE:** Do not use harsh chemicals as damage to the unit may occur.

## Federal Communications Commission 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 in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

## Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.



## Declaration of Conformity (DoC)

The Declaration of Conformity for this product can be found on the RTI website at:  
[www.rticontrol.com/declaration-of-conformity](http://www.rticontrol.com/declaration-of-conformity)

## Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: [www.rticontrol.com](http://www.rticontrol.com)

For general information, you can contact RTI at:

Remote Technologies Incorporated

5775 12th Ave. E Suite 180

Shakopee, MN 55379

Tel. +1 (952) 253-3100

[info@rticontrol.com](mailto:info@rticontrol.com)

## Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

**\*Please do not return products to RTI without return authorization.\***

## Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warranted for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.

Warranty claims may be initiated by an authorized RTI dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, RTI will provide warranty coverage extension of six (6) months from the date code of the product. Note: RTI warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced- regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.

- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI Control is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI. In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

## Disclaimer

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[www.rticontrol.com](http://www.rticontrol.com)

# Installation & Operation Guide

RTI Intelligent Meetings

UC-MXT - Media Xchange™ Transmitter



## Introduction

The Media Xchange™ Transmitter enables wireless connectivity to the Intelligent Video Bar. The result is a seamless bring-your-own-device (BYOD) experience for meetings of all sizes.

The Media Xchange™ Transmitter conveniently plugs into the USB-C port on laptops and mobile devices and shares the signal to the video screen with an ultra-low latency 1080p 30Hz video transmission. Sharing is as simple as tapping the Media Xchange™ button. The Privacy button enables screen pausing or blocking.

This plug-and-play device supports MAC OS, Windows 7/10/11, and Android devices with USB-C ports, and operates at both 2.4GHz and 5GHz wireless bands..

## Features

### Perfect Companion

- Supports up to 2 Media Xchange™ wireless transmitters with each UC-IVB-50.

### Hassle-Free VYOD

- USB-C connectivity for mobile devices and laptops. Privacy.
- Privacy button for quick access to screen pausing or blocking.

### HD Transmission

- Ultra-low latency 1080p 30Hz video transmission.

### Touchscreen Back Channel

- HID USB routing from HID touch-capable display back to source (Touchback).

### 2.4 and 5GHz

- 2.4 and 5GHz wireless bands support.

### DisplayPort Alt Mode

- Operates by using USB-C DisplayPort Alt mode.

### Plug-and-Play

- MAC OS, Windows 7/10/11, and Android supported.

## Package Contents

1x UC-MXT Media Xchange™ Transmitter

## Specifications

### Technical

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Max Resolution.....                 | 1080p @ 30Hz                       |
| Terminal Type.....                  | 1 x USB Type C                     |
| Frequency .....                     | 5GHz (default) and 2.4GHz          |
| Wireless Transmission Protocol..... | IEEE 802.11 a/b/g/n, IEEE 802.11ac |
| Authentication Protocol .....       | WPA2-PSK or IEEE 802.1x            |

### USB

|                        |                                 |
|------------------------|---------------------------------|
| Operating System ..... | Windows 7/8/10, Mac OS, Android |
| USB Port.....          | Type-C DisplayPort Alt mode)    |

### General

|                                     |  |
|-------------------------------------|--|
| Power Consumption.....              | 2.14W  |
| ESD Protection.....                 | Human-body Model:<br>..... $\pm 8\text{kV}$ (Air-gap discharge) / $\pm 4\text{kV}$ (Contact discharge) |
| Input Voltage .....                 | 5V (Power over USB)  |
| Dimensions ( $\emptyset$ xHxL)..... | 2.72" x 0.65" x 6.50" / 68.98mm x 16.4mm x 165.19mm  |
| Product Weight.....                 | 0.134lb / 60g  |
| Operating Temperature .....         | +32 to + 104°F / 0 to + 40°C   |
| Storage Temperature .....           | -4 to + 140°F / -20 to + 60°C  |
| Humidity.....                       | 10% to 90%, non-condensing   |
| Warranty .....                      | Three Years (Parts & Labor)  |

All features and specifications subject to change without notice

## Panel Description



| No. | Name                  | Description  |
|-----|-----------------------|--|
| 1   | USB Type-C            | <ul style="list-style-type: none"> <li>Connects to the UC-IVB-50 for pairing.</li> <li>Connects with a laptop or mobile device for media sharing.</li> </ul>   |
| 2   | Pause/Un-pause Button | <p>Press this button to Pause/Un-pause the shared media screen. The source device is unaffected by this action.</p> <p><b>Note:</b> Audio streaming is synchronized with video and will be paused/un-paused in parallel with video.</p>  |
| 3   | Media Xchange™ Button | <p><b>Short Press:</b> Short pressing this button when linked to a UC-IVB-50 will begin/end media sharing.</p> <p><b>Long Press (~3 seconds):</b> When using the Split Screen mode and displaying 2 sources on the UC-IVB-50, the mode will switch to Single Screen and the media from the UC-MXT will be displayed in full screen.</p>  |
| 4   | LED Indicator Ring    | <p><b>Blinking White - Bright:</b></p> <ul style="list-style-type: none"> <li>When connected to a UC-IVB-50 for pairing: The UC-MXT is in the process of pairing.</li> <li>When connected to a laptop or mobile device: The UC-MXT is establishing a link with the UC-IVB-50 that it is paired to.</li> </ul> <p><b>Blinking White - Dim:</b><br/>The UC-MXT is currently media sharing.</p> <p><b>Solid White:</b></p> <ul style="list-style-type: none"> <li>When connected to the UC-IVB-50 for pairing: The UC-MXT has successfully completed the pairing process.</li> <li>When connected to a laptop or mobile device: The UC-MXT is successfully linked to the UC-IVB-50. Media sharing is now possible.</li> </ul> |

## Safety Suggestions

### **Read and Follow Instructions**

Read all safety and operating instructions before operating the unit.

### **Retain Instructions**

Keep the safety and operating instructions for future reference.

### **Heed Warnings**

Adhere to all warnings on the unit and in the operating instructions.

### **Accessories**

Only use attachments/accessories specified by the manufacturer.

### **Heat**

Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

### **Power**

Unplug this apparatus during lightning storms or when unused for long periods of time.

### **Power Sources**

Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

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Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

### **Power Cord Protection**

Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

### **Water and Moisture**

Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

### **Object and Liquid Entry**

Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

### **Servicing**

Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

### Damage Requiring Service

The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

## Cleaning

To clean this product, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces.

**NOTE:** Do not use harsh chemicals as damage to the unit may occur.

## Federal Communications Commission 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 in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

## Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.



## Declaration of Conformity (DoC)

The Declaration of Conformity for this product can be found on the RTI website at:  
[www.rticontrol.com/declaration-of-conformity](http://www.rticontrol.com/declaration-of-conformity)

## Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: [www.rticontrol.com](http://www.rticontrol.com)

For general information, you can contact RTI at:

Remote Technologies Incorporated

5775 12th Ave. E Suite 180

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[info@rticontrol.com](mailto:info@rticontrol.com)

## Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

**\*Please do not return products to RTI without return authorization.\***

## Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warranted for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.

Warranty claims may be initiated by an authorized RTI dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, RTI will provide warranty coverage extension of six (6) months from the date code of the product. Note: RTI warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced- regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.



- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI Control is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI. In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

## Disclaimer

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[www.rticontrol.com](http://www.rticontrol.com)

# Installation & Operation Guide

RTI Intelligent Meetings

UC-IVB-EXM - Expansion Microphone



## Introduction

In spaces where users are situated beyond the recommended range of the built-in MEMs array microphones in the UC-IVB-50, one or more UC-IVB-EXM Expansion Microphones elevate the audio pickup in the room to make sure all participants are heard.

Sound quality is enhanced with an integrated DSP featuring Acoustic Echo Cancellation (AEC), Automatic Noise Suppression (ANS), and Automatic Gain Control (AGC). The omnidirectional (360°) microphone has a pickup range of 9.8ft/3m. Connect up to five (5) expansion microphones to the UC-IVB-50 via CAT-6 cable to ensure everyone in the room is heard, even in large conference rooms. (Total cable length should not exceed 164ft/50m with 3 UC-IVB-EXMs or 82ft/25m with 5 UC-IVB-EXMs).

## Features

### Expanded Audio

- Connect to 5 UC-IVB-EXM expansion microphones to an RTI UC-IVB-50.

### Advanced Processing

- An integrated DSP features Acoustic Echo Cancellation (AEC), Automatic Noise Suppression (ANS), and Automatic Gain Control (AGC).

### Synchronized Muting

- An LED-lit microphone mute button is available with synchronization across all devices.

### Microphone

- 4 MEMs linear microphones with 360° (omni-directional) pickup (~3 meters).

### Additional Range

- Connect 3 UC-IVB-EXM with a total cable length of 50m of CAT-6.

## Package Contents

1x UC-IVB-EXM Expansion Microphone

## Specifications

### Microphone

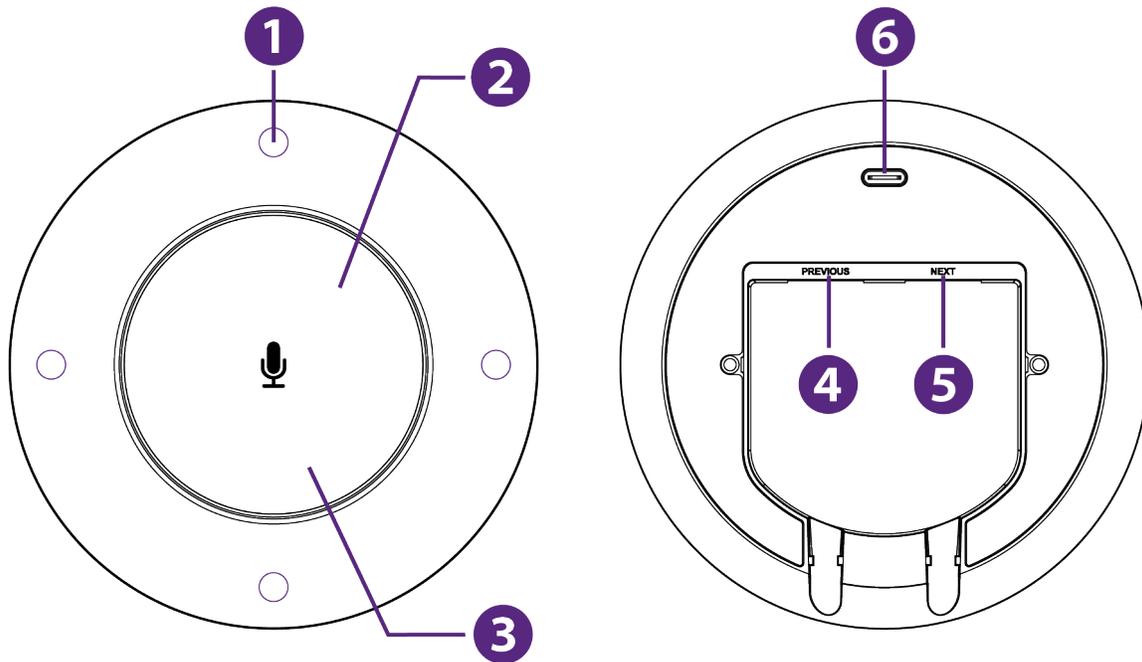
|                             |  |
|-----------------------------|--|
| Microphone .....            | Omnidirectional microphone array. Pickup Range: 9.8ft/3m |
| Frequency Response .....    | 100Hz~10KHz  |
| Sensitivity .....           | -26dBFS  |
| Signal-to-Noise Ratio ..... | 62dB   |
| DSP .....                   | Full Duplex  |
| .....                       | AEC (Automatic Echo Cancellation)                        |
| .....                       | AGC (Automatic Gain Control)                             |
| .....                       | ANS (Automatic Noise Suppression)                        |

### General

|                             |                                  |
|-----------------------------|----------------------------------|
| Input / Output .....        | RJ-45                            |
| USB-C Port .....            | Firmware Upgrade via Windows App |
| Power Supply.....           | Powered by UC-IVB-50             |
| Power Consumption.....      | 1.5W (Max)                       |
| Dimensions (ØxH).....       | 4.25" x 1.04" / 108mm x 26.5mm   |
| Product Weight.....         | 0.31lb/140g                      |
| Operating Temperature ..... | +32 to + 104°F / 0 to + 40°C     |
| Storage Temperature .....   | -4 to + 140°F / -20 to + 60°C    |
| Humidity.....               | 10% to 90%, non-condensing       |
| Warranty .....              | Three Years (Parts & Labor)      |

All features and specifications subject to change without notice

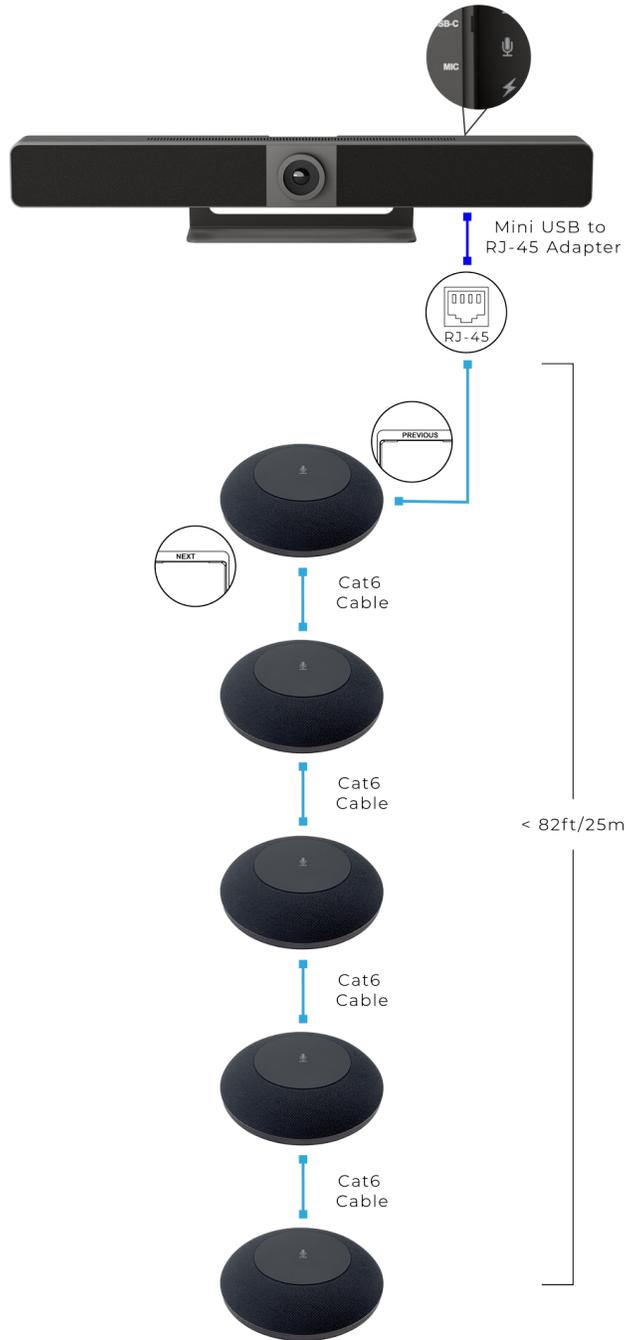
## Panel Description



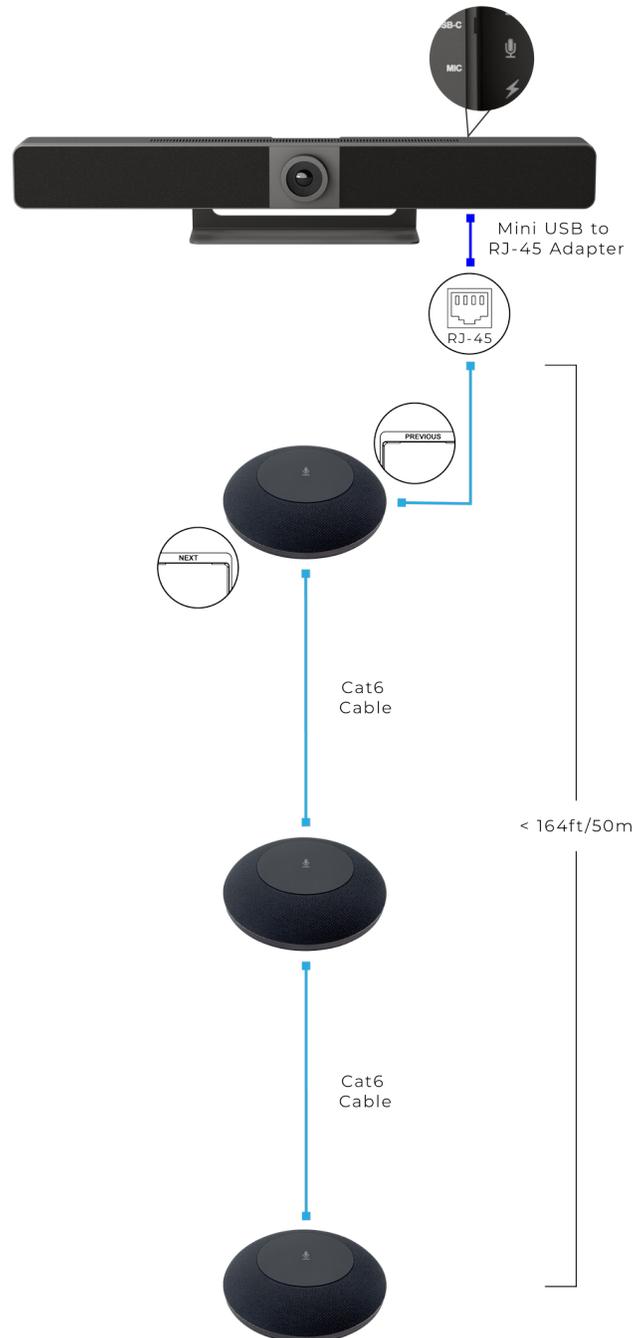
| No. | Name             | Description  |
|-----|------------------|--|
| 1   | Microphone Array | <ul style="list-style-type: none"> <li>4 x 360° Omnidirectional MEMS microphones</li> </ul>  |
| 2   |                  | Press this button to toggle between mute and unmute states for all connected microphones, including the attached UC-IVB-50 and any connected UC-IVB-EXM microphones.   |
| 3   | Status LED       | The Status LED indicator beneath the button indicated 5 states: <ul style="list-style-type: none"> <li>Solid White: The UC-IVB-EXM is powered on.</li> <li>Blinking White: The UC-IVB-EXM is being upgraded.</li> <li>Solid Blue: The UC-IVB-EXM is detecting audio. Note: When no audio is detected, the LED will be off.</li> <li>Solid Red: The UC-IVB-EXM is muted.</li> <li>Breathing White: The UC-IVB-EXM is in sleep mode (follows the standby state of the UC-IVB-50).</li> </ul> |
| 4   | PREVIOUS         | <ul style="list-style-type: none"> <li>If this is the only UC-IVB-EXM in use or the first in a series of UC-IVB-EXM microphones, connect this port to the UC-IVB-50.</li> <li>If this is a cascaded/additional UC-IVB-EXM microphone, connect this port to the NEXT port on the upstream UC-IVB-EXM.</li> </ul>  |
| 5   | NEXT             | <ul style="list-style-type: none"> <li>If this is the only UC-IVB-EXM in use, do not use this port.</li> <li>If this is a UC-IVB-EXM in a series of microphones, connect this port to the PREVIOUS port on the next downstream UC-IVB-EXM.</li> </ul>  |
| 6   | USB-C Port       | This port is only used for the firmware upgrading process.   |

# Applications

## 1. Power up to 5 UC-IVB-EXM Microphones up to 82ft/25m



## 2. Power up to 3 UC-IVB-EXM Microphones up to 50m



### Note:

- For cascading of up to three microphones, the total length of all CAT6 cables in use shall not exceed 50 meters.
- For cascading of up to five microphones, the total length of all CAT6 cables in use shall not exceed 25 meters.

## Safety Suggestions

### **Read and Follow Instructions**

Read all safety and operating instructions before operating the unit.

### **Retain Instructions**

Keep the safety and operating instructions for future reference.

### **Heed Warnings**

Adhere to all warnings on the unit and in the operating instructions.

### **Accessories**

Only use attachments/accessories specified by the manufacturer.

### **Heat**

Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

### **Power**

Unplug this apparatus during lightning storms or when unused for long periods of time.

### **Power Sources**

Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

### **Power Sources**

Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

### **Power Cord Protection**

Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

### **Water and Moisture**

Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

### **Object and Liquid Entry**

Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

### **Servicing**

Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

### Damage Requiring Service

The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

## Cleaning

To clean this product, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces.

**NOTE:** Do not use harsh chemicals as damage to the unit may occur.

## Federal Communications Commission 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 in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

## Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.



## Declaration of Conformity (DoC)

The Declaration of Conformity for this product can be found on the RTI website at:  
[www.rticontrol.com/declaration-of-conformity](http://www.rticontrol.com/declaration-of-conformity)

## Contacting RTI

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## Service & Support

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RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

**\*Please do not return products to RTI without return authorization.\***

## Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warranted for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.

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Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced- regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.



- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI Control is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI. In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

## Disclaimer

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[www.rticontrol.com](http://www.rticontrol.com)

# Installation Guide

RTI Intelligent Meetings

UC-IVB-TM - TV Mount



## Introduction

The UC-IVB-TM optional TV Mount enables the Intelligent Video Bar to be mounted directly to the back of the room's TV monitor. This is especially useful when the TV is mounted on a stand, rather than to the wall.

## Specifications

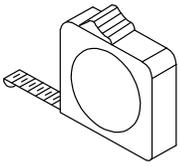
|                              |  |
|------------------------------|--|
| Mount Compatibility .....    | VESA Mount Compatible; TV Mount with vertical VESA brackets required |
| TV Mount Compatibility ..... | VESA compatible; 200mm - 600mm patterns                              |
| Tilt Adjustable.....         | 30° up tilt range  |
| Assembly Required.....       | Yes  |
| Mount Location .....         | Below TV   |
| Color .....                  | Black  |
| Material .....               | Steel  |
| Indoor / Outdoor.....        | Indoor only  |
| Product Weight.....          | 4.69lb/2.13kg  |
| Dimensions (WxHxD).....      | 26.4" x 19.41" x 2.09" / 670mm x 493mm x 53mm                        |
| Operating Temperature .....  | +32 to + 104°F / 0 to + 40°C   |
| Storage Temperature .....    | -4 to + 140°F / -20 to + 60°C  |
| Humidity.....                | 10% to 90%, non-condensing   |
| Warranty .....               | Three Years (Parts & Labor)  |

All features and specifications subject to change without notice.

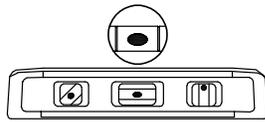
## Before You Start

 Verify that the following items are reviewed:

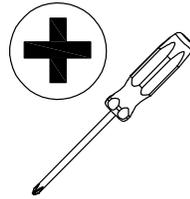
- The weight of your video bar SHALL NOT EXCEED 26.5LBS (12kg).
- Verify that the total weight of your TV, video bar, video bar mount and any accessories must be lower than the maximum weight rating of your TV mount.
- You have read through the user manuals of your TV, Video Bar and TV mount for additional guidance.
- You have all the tools need for installation:



Measuring Tape



Bubble Level



Philips Screwdriver

## Safety Instructions

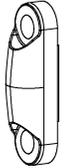
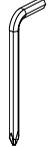
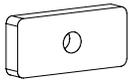
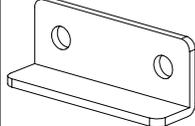
 **IMPORTANT:** Please read the following instructions carefully before installation.

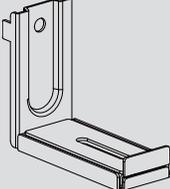
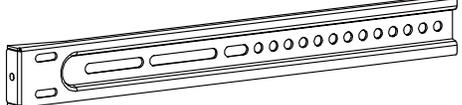
- For wall mounted cases, the wall must be capable of supporting five times the weight of the TV, the mounting kit and the video bar combined.
- Do not apply this product to any purpose not specified in this document.
- RTI bears no responsibility for any damage or injury resulted from improper installation or misuse.

## Package Contents

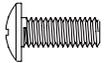
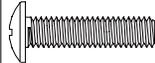
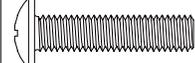
**⚠ WARNING:** This product contains small items that could be a choking hazard if swallowed. Before installation, verify that all parts are included and undamaged.

### Parts for Bracket Installation

| Item     | Plastic Cover   | M5x10mm Bolt  | Allen Key   | M5x8mm Screws   | M6x8mm Screws   | M6x30mm Screws  | Sliding Block   | Adjustment Tablet   |
|----------|---|---|---|---|---|---|---|---|
| Image    |  |  |  |  |  |  |  |  |
| Quantity | x2  | x4  | x1  | x4  | x2  | x2  | x2  | x2  |
| Number   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |

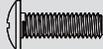
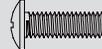
| Item     | Horizontal Bar  | Hook   | Bracket   |
|----------|---|--|---|
| Image    |  |  |  |
| Quantity | x1  | x2   | x2  |
| Number   | 09  | 10   | 11  |

### Parts for TV Mount Installation

| Item     | M6x16mm Screws  | M6x25mm Screws  | M8x25mm Screws  | M8x45mm Screws  | M8x10mm Spacers  | M8x4mm Spacers  | M8x2.5mm Spacers  | M6 Washers  |
|----------|---|---|---|---|--|---|---|---|
| Image    |  |  |  |  |  |  |  |  |
| Quantity | x4  | x4  | x4  | x4  | x4   | x4  | x4  | x4  |
| Number   | a   | b   | c   | d   | e  | f   | g   | h   |

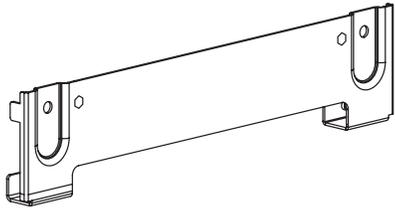
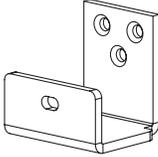
**Note:** Items highlighted in gray are included but not used when installing the UC-IVB-50 4K Intelligent Video Bar.

**Parts for Video Bar Installation (not used when installing UC-IVB-50)**

| Item     | M4x16mm<br>Screws   | M5x16mm<br>Screws   | M6x16mm<br>Screws  | M6<br>Washers   |
|----------|---|---|--|---|
| Image    |  |  |  |  |
| Quantity | x2  | x2  | x2   | x2  |
| Number   | A   | B   | C  | D   |

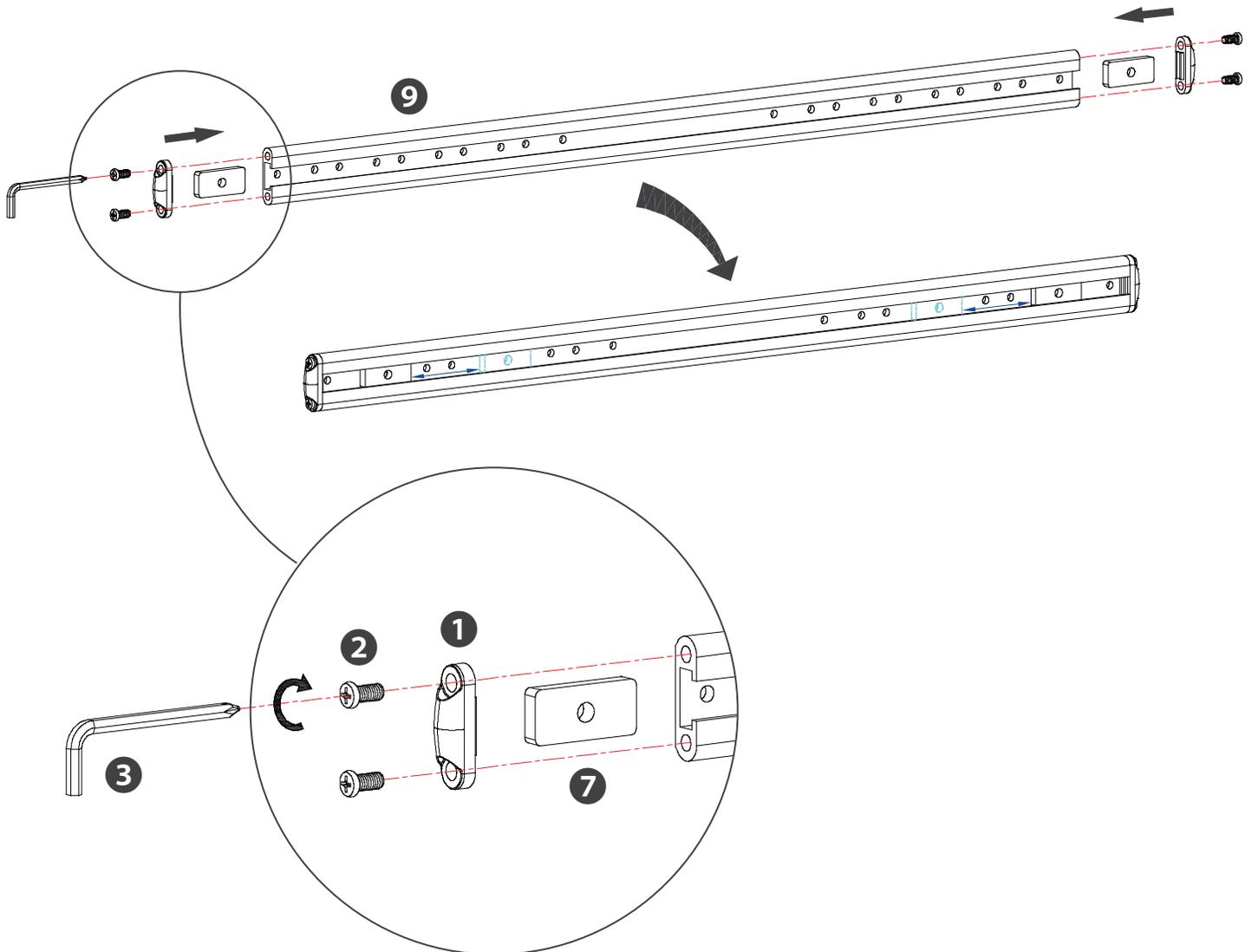
 **Note:** These parts are not used when installing the UC-IVB-50 and are for installing generic video bar.

**Parts for UC-IVB-50 Installation**

| Item     | UC-IVB-50 Bracket  | U-Bracket   | M3x8mm<br>Screws  |
|----------|--|---|---|
| Image    |  |  |  |
| Quantity | x1   | x2  | x4  |
| Number   | n/a  | n/a   | n/a   |

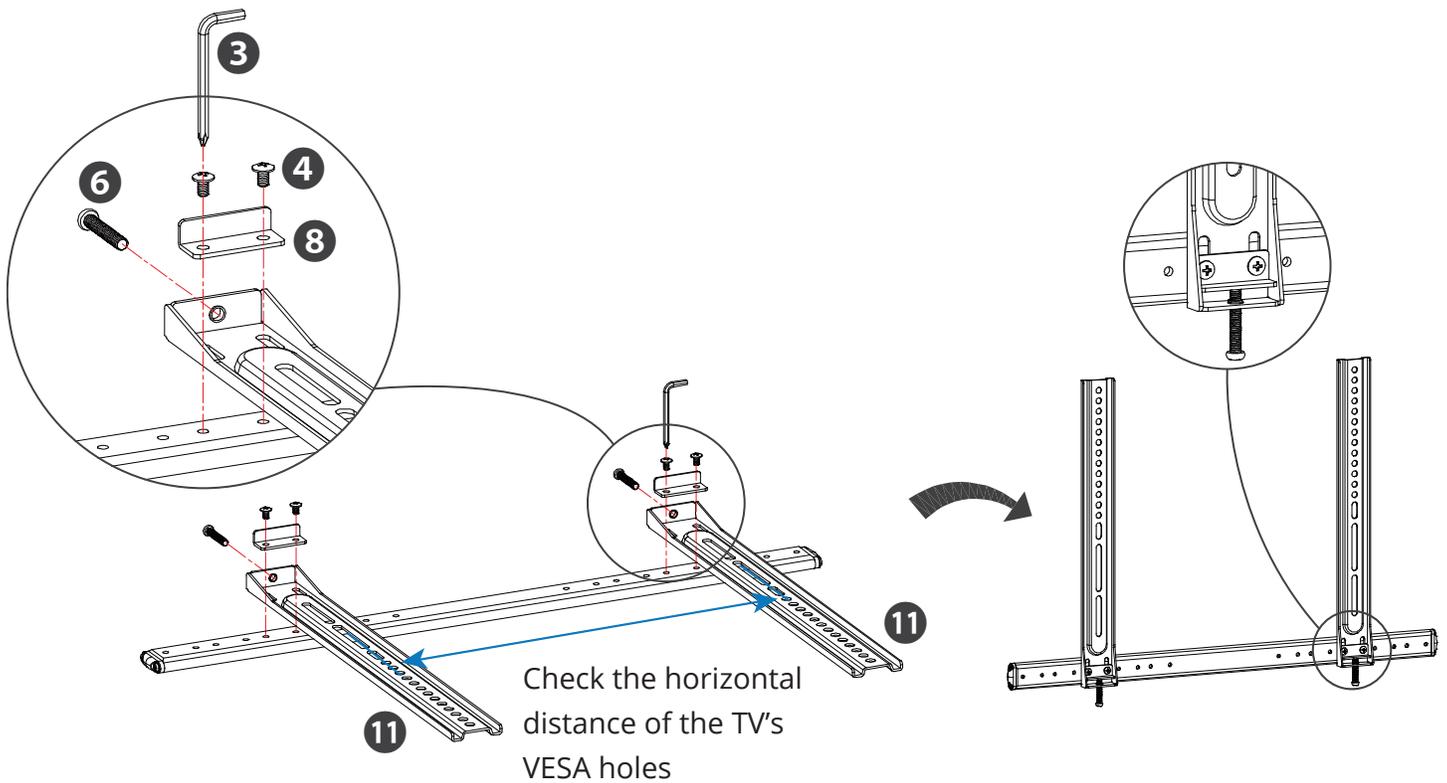
## Assemble the Horizontal Bar

1. Slide the two Sliding Blocks into the Horizontal Bar at each end.
2. Secure the two Plastic Covers to each end of the Horizontal Bar using the Bolts and Allen Key provided.



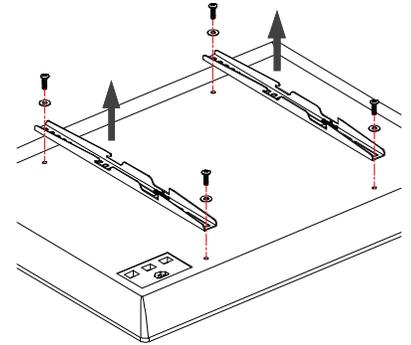
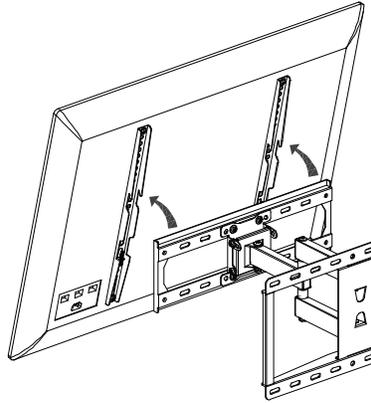
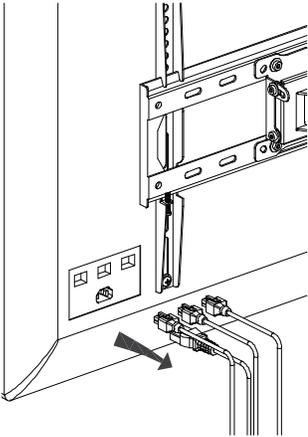
## Attach the Brackets to the Horizontal Bar

1. Measure the horizontal distance of the TV before connecting the Brackets to the Horizontal Bar.
2. Align the two Brackets with the holes of the Horizontal Bar, and screw the Adjustment Tablets into the Brackets tightly using screws provided.
3. Insert the provided screws into the bottom of the two Brackets and get them tightened.



## Remove the TV Mount from Your TV

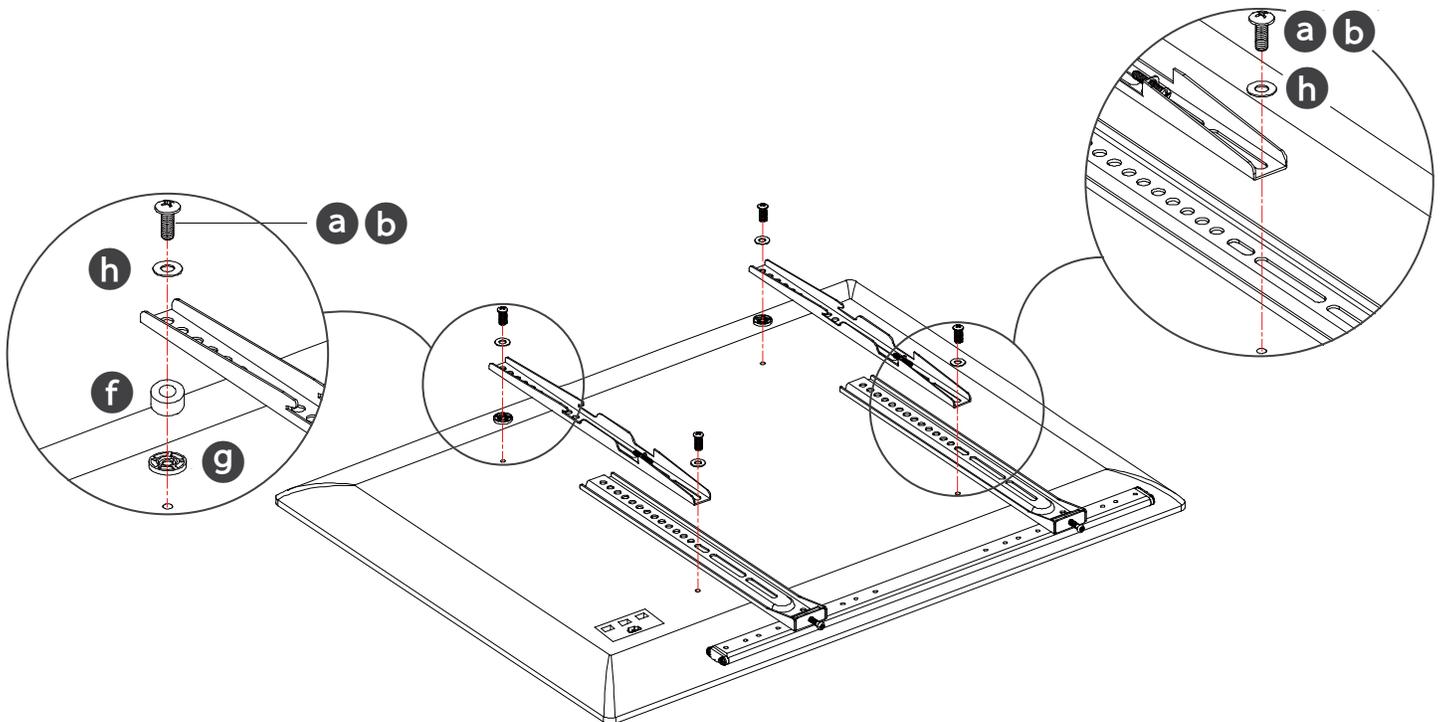
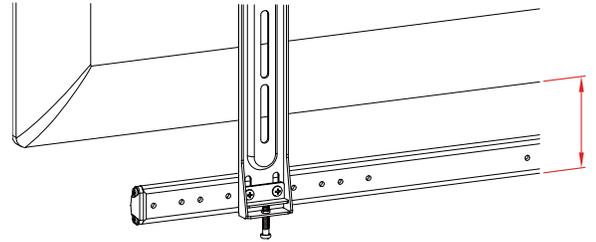
1. Remove all cables from the TV.
2. Unmount the TV from the TV mount and place it on a soft surface.
3. Remove all brackets from your TV.



## Attach the Mounting Kit and Brackets to your TV

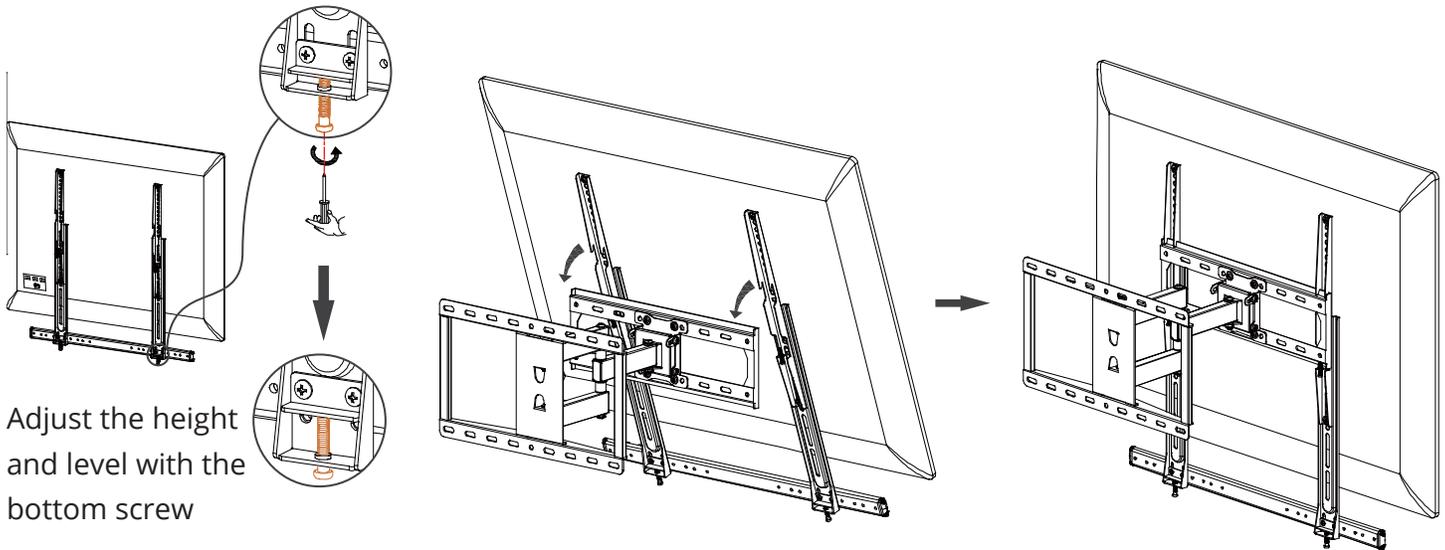
**⚠ IMPORTANT:** Before affixing the Mounting Kit to your TV, check the vertical distance of the TV and the mounting kit to allow for the height of the Video Bar.

1. Align the TV Wall Mount (not included) with your TV's mounting holes.
2. Screw the TV Brackets into the Video Bar Mounting kit and to the TV using the screws, spacers and washers provided.



 **Note:** The TV Brackets are not included in the package.

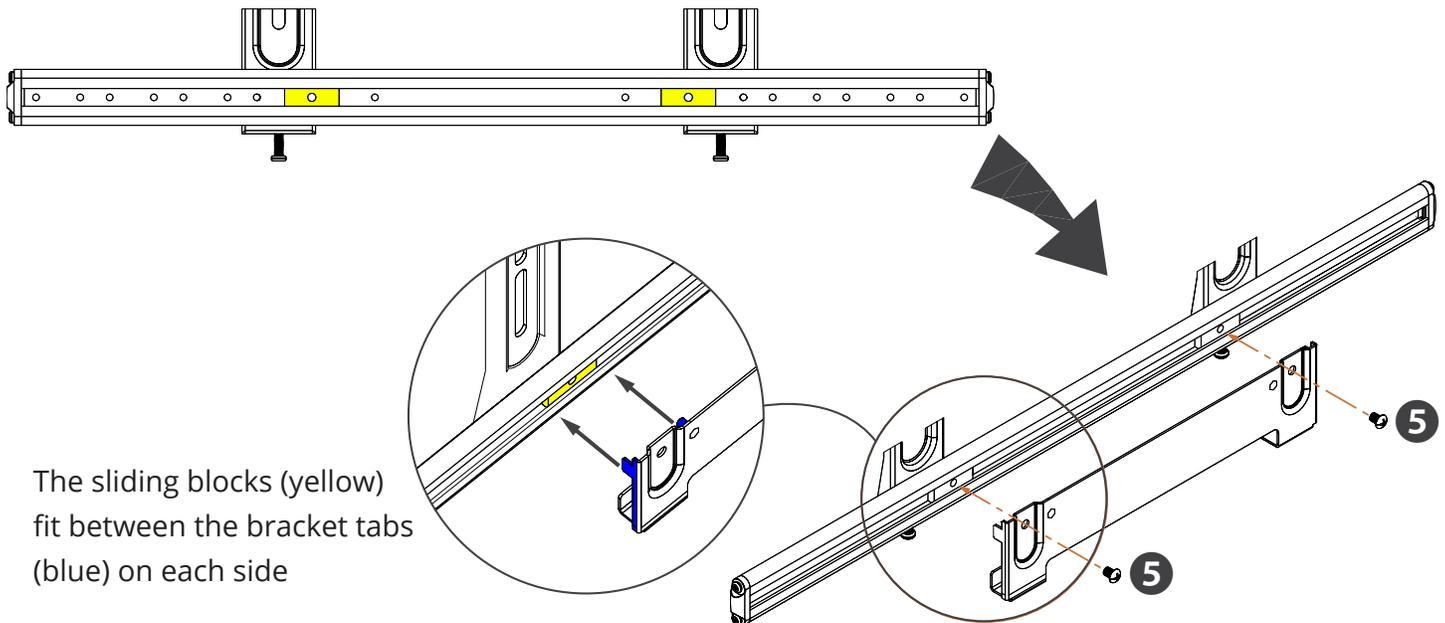
## Hang the Assembled Unit on the TV Mount



Adjust the height and level with the bottom screw

## Attach the UC-IVB-50 Bracket

1. Align the sliding blocks (yellow) as shown in the image below.
2. Attach the UC-IVB-50 bracket to the sliding blocks and secure with provided screws.

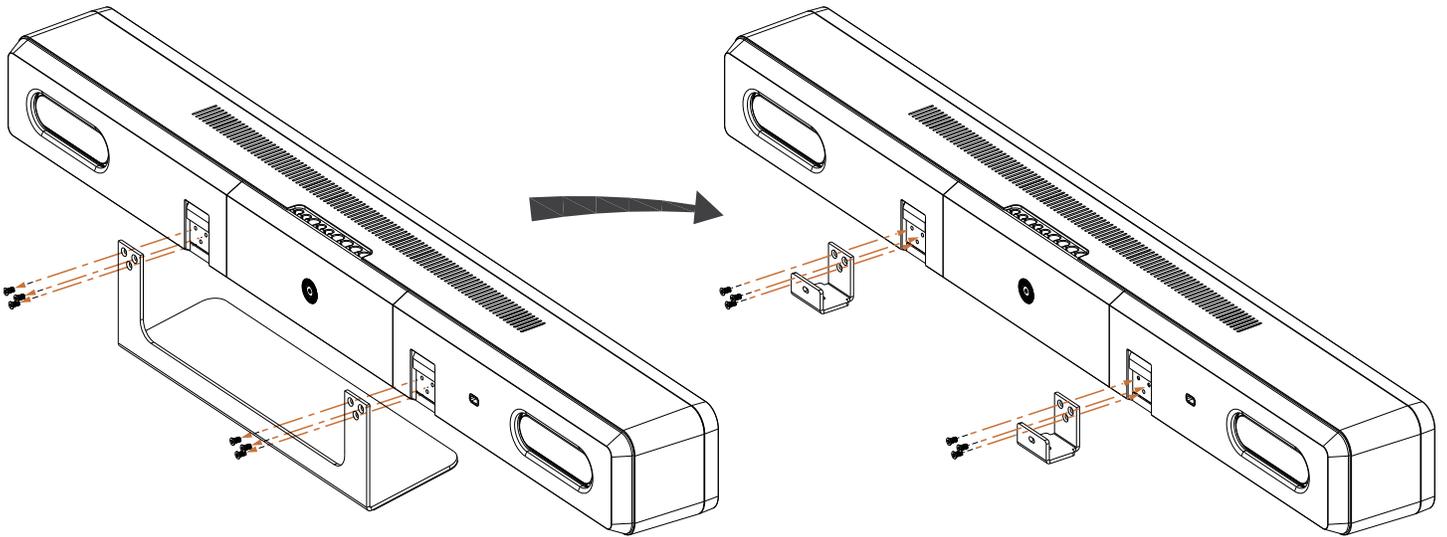


The sliding blocks (yellow) fit between the bracket tabs (blue) on each side

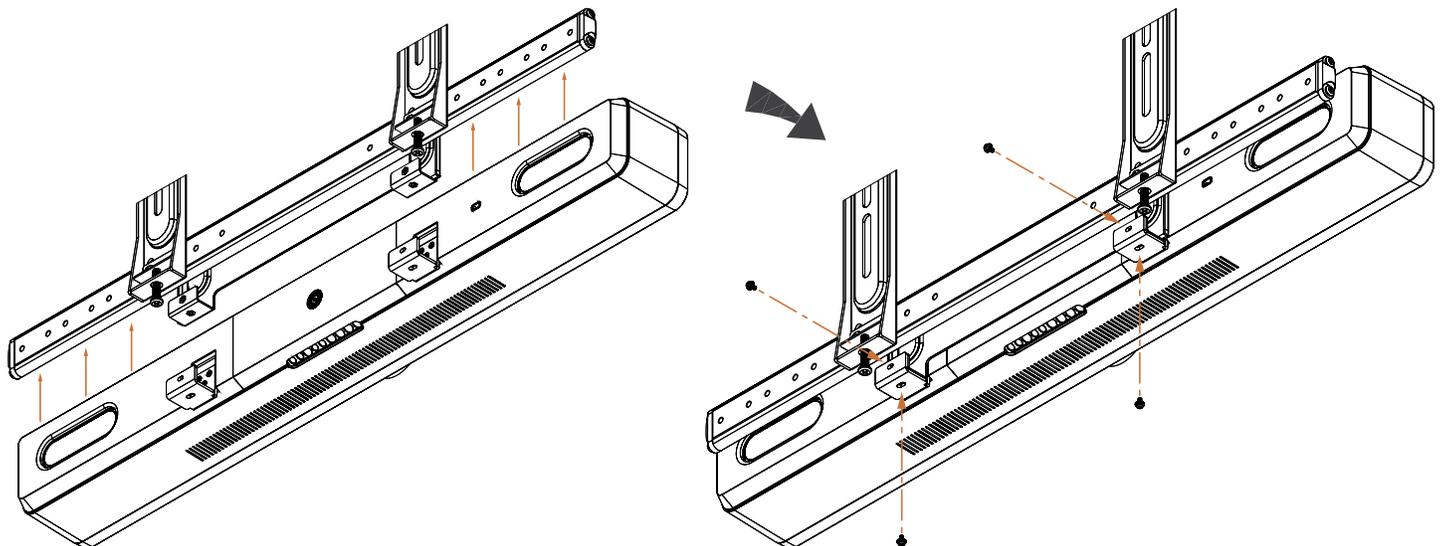
**Note:** Please ensure that the UV-IVB-50 bracket is centered as it will not be adjustable after installation of the video bar without disassembling.

## Install the UC-IVB-50

1. Detach the table stand from the UC-IVB-50. Retain screws.
2. Install U-brackets to each side of the UC-IVB-50 using screws from previous step.



3. Slide the U-Brackets attached to the UC-IVB-50 up to the TV mount.
4. Secure the UC-IVB-50 to the TV mount with the provided M3x8mm screws. Please use both bottom and rear screws.



## Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

**\*Please do not return products to RTI without return authorization.\***

## Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warranted for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.

Warranty claims may be initiated by an authorized RTI dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, RTI will provide warranty coverage extension of six (6) months from the date code of the product. Note: RTI warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced- regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.



- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI Control is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI. In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

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