

VoiceTRX100 – Quick Start Guide

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Introduction

In addition to this quick start guide, detailed tutorials can be found on the Datavideo Academy website www.datavideoacademy.com.

Supported Hardware

PTZ Cameras

- Datavideo PTC-140 HD Series
- Datavideo PTC-145 HD Series
- Datavideo PTC-285 4K Series
- Datavideo PTC-305 4K Series

Video Switchers

- Internal NDI SwitchHub (License required)
- Datavideo KMU-100+
- Datavideo iCast-10NDI
- Datavideo SE-2600/3200/4000 Series

Microphones

Model	Type	Supported Microphones	Max Zones	Multiple Zone	Far end detection	XYZ Mapping
Sennheiser TCCM	Ceiling Microphone	N/A	User defined	N	Y	N
Sennheiser TCC2	Ceiling Microphone	N/A	User defined	N	Y	N
Shure MXW Microflex	Wireless System	Gooseneck, Boundary, Bodypack, Handheld	8 per receiver	Y	N	N/A
Shure MXA-910/910 (Lobe gating mode)	Ceiling Microphone	N/A	8	Y	Y	N
Shure MXA-920/901 (Automatic coverage mode)	Ceiling Microphone	N/A	User defined	Y	Y	Y
Audio-technica ATND1061	Ceiling Microphone	N/A	15	N	Y	Y
Audio-Technica ATUC-50	Conference System	Gooseneck	100	Y	N	N/A
Audio-Technica ATUC-IR	Conference System	Gooseneck	200	Y	N	N/A
Shure MXCW Microflex Complete	Conference System	Gooseneck	250	Y	N	N/A
Allen and Heath AHM Series	Audio Matrix	N/A	10	Y	N	N/A
Sennheiser Speechline	Wireless System	Gooseneck, Boundary, Bodypack, Handheld	4 Per Receiver	Y	N	N/A
Bosch CCS-1000D	Conference System	Gooseneck	245	Y	N	N/A
Bosch Dicontis Wireless	Conference System	Gooseneck	120	Y	N	N/A
DSPs (Generic TCP Input)	DSP	NA	User defined	Y	N	N/A

Type: Ceiling Microphone, Wireless Microphone or Conferencing system

Last updated: 19-09-25

Supported Microphones: Applicable to Wireless Microphone systems only, defines the types of supported microphone transmitters.

Max Zones: Maximum number of zones supported by a single microphone or receiver.

Multiple Zones: Is the microphone or receiver capable of reporting more than one active position.

Far end detection: Can the microphone provide VoiceTrx-100 with data to detect far end activity via its AEC/Reference input. **Please Note:** All microphones can support far end detection with an optional DANTE adapter, please see the 'Far end detection' section of this guide.

Zones Explained

The VoiceTRX-100 operates using zones no matter what microphone system is used, a lobe, position, audio channel or physical microphone will be mapped to a zone, and the zone is what triggers actions on the VoiceTRX-100.

In addition to the positive zones (zone 1 onwards) there are also three negative zones that are used internally by the VoiceTRX-100, all negative zones reported by microphone modules are treated the same, that means that any negative zone will trigger the 'Home Zone'.

Zone	Description
-1	Home zone, mic mics have been active for the home period.
-2	Far end, the far end has been triggered.
-3	Multiple, more than one zone is active.

Connecting to the VoiceTRX100

Directly

By default, the VoiceTRX100 will output its control UI on HDMI port 1 or 2, the port that is connected when the VoiceTRX100 is powered on will be used.

1. Connect HDMI 2 to a monitor.
2. Connect a USB keyboard and mouse to the VoiceTRX100.
3. Login with the default credentials User: admin Pass: admin.

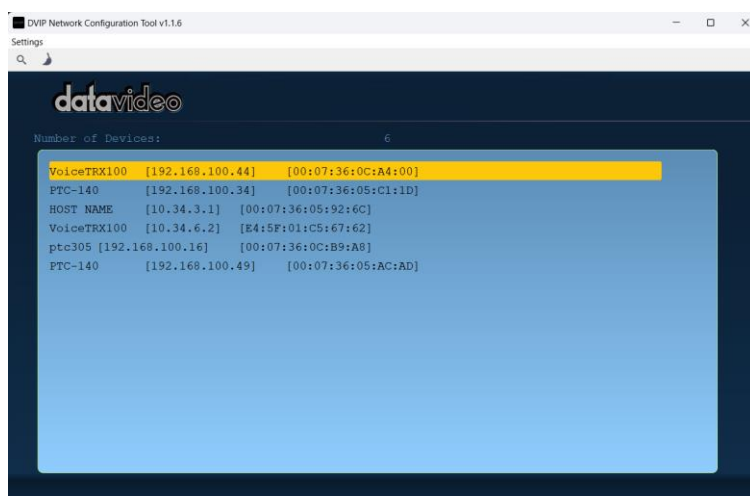
Via LAN

The VoiceTRX100 will automatically be assigned an IP address when connected to a network that supports DHCP, if the network does not support DHCP we recommend connecting directly to configure the static IP as above.

If using DHCP, you can discover the IP address of the VoiceTRX using the free DVIP tool. You can download the Windows DVIP Configuration Tool from the link below.

<https://www.datavideo.com/global/product/DVIP>

The tool is also available via the Google Play Store and Apple App store.



1. Connect your computer to same the LAN as the VoiceTRX100, ensure your computer is on DHCP so its assigned an IP address in the same range as the VoiceTRX100.
2. Open a web browser and navigate to the IP address of the VoiceTRX100. We strongly recommend you use the **Google Chrome** web browser.
3. Login with the default credentials User: admin Pass: admin.

Microphone Modules

Sennheiser TCC M

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

Network Connections: Install the Sennheiser TCC M, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Installation Location: Decide on the installation location for the Sennheiser TCC M. Choose a location that captures the participants' voices while considering the camera's field of view.

Firmware Updates: Ensure that the Sennheiser TCC M and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

1. Download and install the Sennheiser 'Control Cockpit' software
<https://www.sennheiser.com/en-us/catalog/applications/assistive-listening-and-audience-engagement/control-cockpit/control-cockpit-111111>
2. Open 'Control Cockpit' and navigate to the 'Devices Tab'
3. If the TCC M is not listed, you can add it manually using its IP address
4. Click the TCC2 microphones name to access its settings

Enable third party access

1. Navigate to the 'Access' tab
2. Enable third party access
3. Enter a Password and click 'OK' to save. Make note of the chosen password, you will need it to connect the TCC M to the VoiceTRX100 later

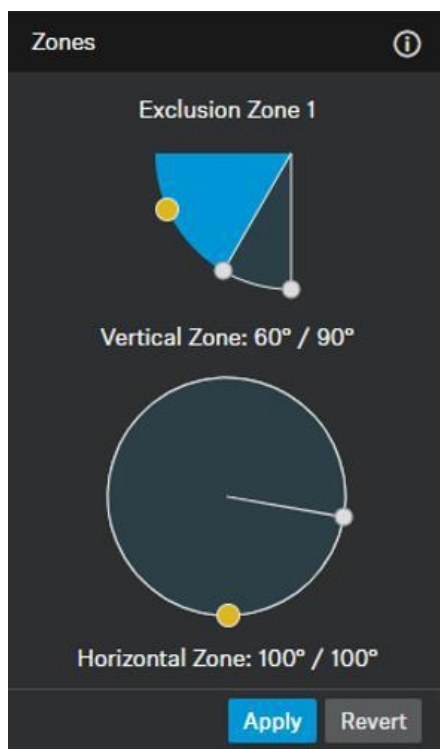
Zone Settings

The Sennheiser TCC M supports two types of zones:

Exclusion Zones

Exclusion Zones enable you to eliminate unwanted sources of constant noise. Up to five exclusion zones are supported. It is recommended to exclude any areas that will not be actively used.

Adjust the sliders to set a vertical and horizontal zone. The vertical zone can be adjusted from 0° to 90°, the Horizontal zone can be adjusted from 0° to 360°.

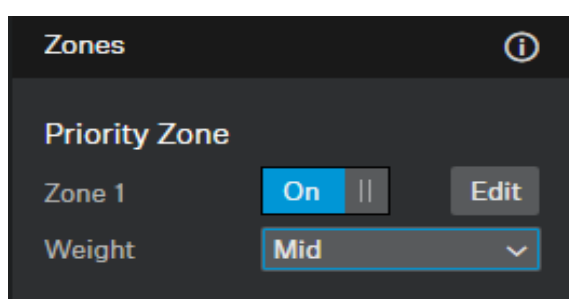


The Priority Zone is used to keep the focus on the moderator's voice. The priority zone take priority over non-priority zones. One priority zone is supported, the 'Weight' can be set as follows:

Mid: Increases the weighting on the audio output from the selected zone by approximately 1.5 times the normal value.

High: Increases the weighting on the audio output from the selected zone by approximately 2 times the normal value.

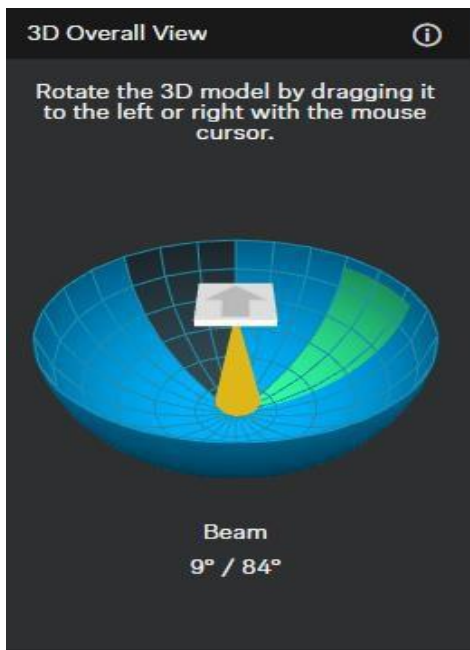
Max: Increases the weighting on the audio output from the selected zone by approximately 3 times the normal value.



Last updated: 19-09-25

The 3D view will display the current beam position (loudest speaker) and priority / exclusion zones in real time.

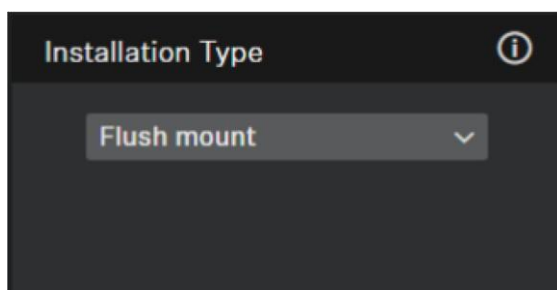
Priority zones are shown in green; exclusion zones are shown in dark blue. If both types of zone overlap, the exclusion zones will override the priority zone.



Audio Settings

Installation Type

Please ensure you set the appropriate installation type.



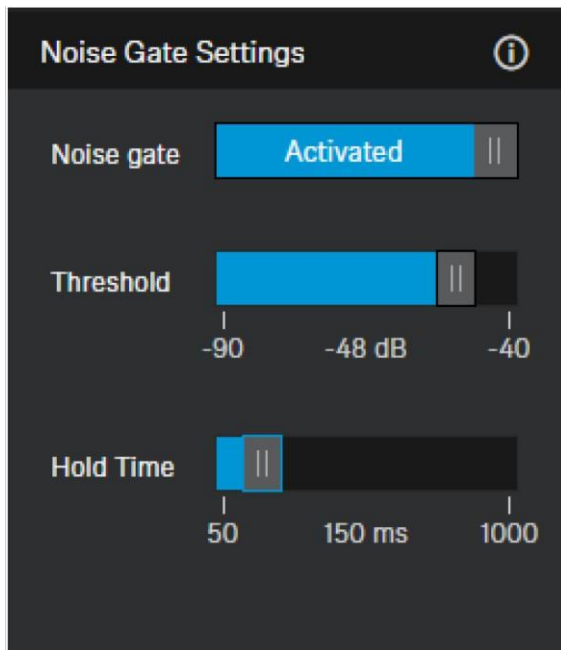
Flush Mount: The microphone array has been installed in or directly underneath the ceiling.

Suspended mount: The microphone array has been suspended from the ceiling.

Noise Gate

The noise gate function prevents the TCC M microphone from picking up unwanted background noise.

Threshold: The Noise Gate will open the audio output only after the audio level exceeds the set threshold for the set period.



Sensitivity Threshold

The Sensitivity Threshold setting lets you adjust the TCC M microphone's sensitivity to background noise to better identify the presenter. Depending on the setting, the sensitivity is either amplified or attenuated.

Normal(default): Recommended for speakers with a normal speaking volume.

Quiet: Recommended for speakers with a quiet speaking volume. The sensitivity of the microphone is increased.

Loud: Recommended for speakers with a loud speaking volume. The sensitivity of the microphone is attenuated.

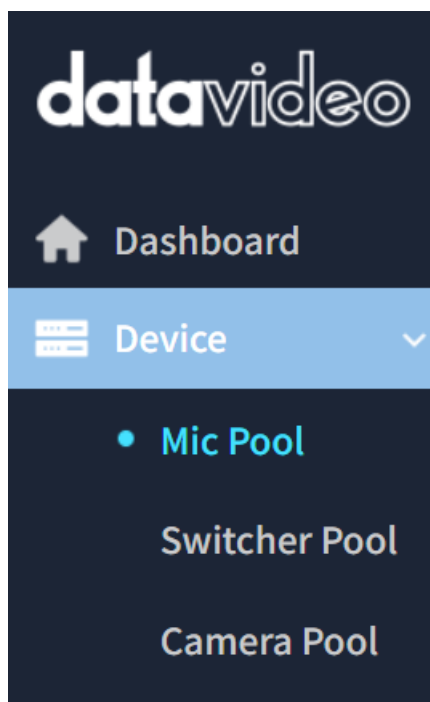
Intelligent Noise Control

Detects and suppresses unwanted static background noise in noisy environments for enhanced voice tracking. Enabling this feature is recommended if there is static background noise from fans, HVAC etc, the low settings is sufficient for most applications.

VoiceTRX100 Configuration

Connecting the Sennheiser TCC M microphone

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Sennheiser TCC M' from the dropdown menu, enter a friendly name and the IP address of the Sennheiser TCC M microphone.

×

Add Manually

Select Module

Sennheiser TCC M Microphone

Friendly Name

Test TCCM

Device IP

192.168.100.181

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Mic Pool				Add Manually		
No.	Name	Status	IP			
7	Shure MXA 920(Automatic Coverage)(NEW-920)	-	192.168.100.55			
8	Sennheiser TCC M Microphone(Test TCCM)	-	192.168.100.181			

Showing 7 to 12 of 8 entries

6

Previous

1

2

Next

6. Enter the password (set earlier) and click the 'Save' button.

☰
[Device](#) >
 [Mic Pool](#) >
 [Sennheiser TCC M Microphone \(Test TCCM\)](#) >
 [Edit Device](#)

General Fields

ON

Device IP

192.168.100.181

Username

api

Password

Min Elevation (degrees)

10

Max Elevation (degrees)

90

Mic trigger dB

-45

Save

Delete

Last updated: 19-09-25

The following module options are available:

Device IP: IP address of the TCCM device.

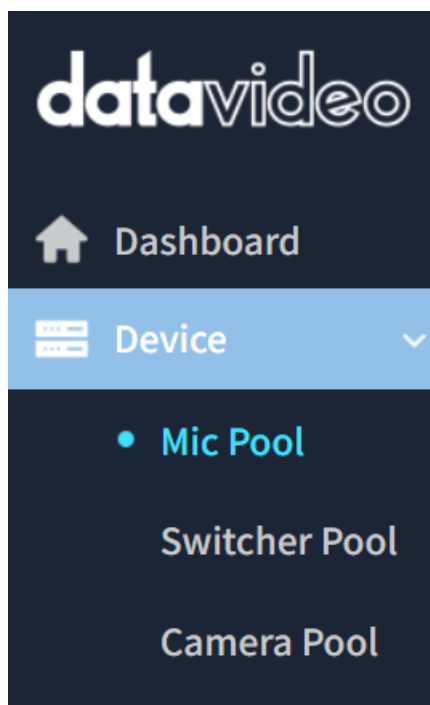
Password: API password set on the TCCM device.

Mic Trigger dB: A zone change will only be triggered if this level is exceeded. The range is -90 to 0 (Default -45).

Far end detection: Enable or disable far end detection.

Zone Configuration

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Sennheiser TCC-2' from the dropdown menu, enter a friendly name and the IP address of the Sennheiser TCC 2 microphone.
4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Device > Mic Pool

Mic Pool				Add Manually
No.	Name	Status	IP	
1	Sennheiser TCC M Microphone(TCCM)	Enabled	192.168.100.143	 

Showing 1 to 6 of 1 entries

Previous 1 Next

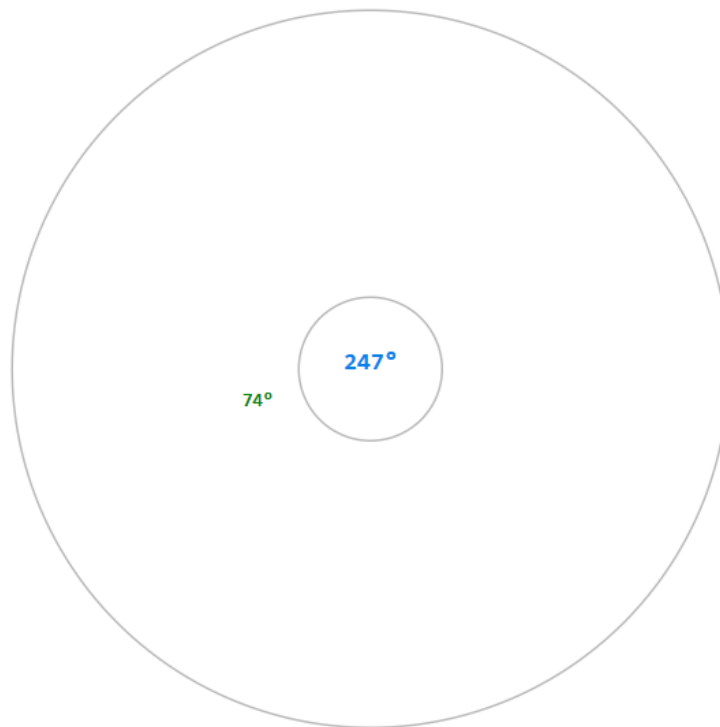
6. Scroll down and select the microphone for which you want to configure zones from the dropdown menu.
7. By default, the V2 mode is used, the legacy V1 mode is no longer recommended.

Select Unit Sennheiser TCC M Microphone (TCCM) ▾

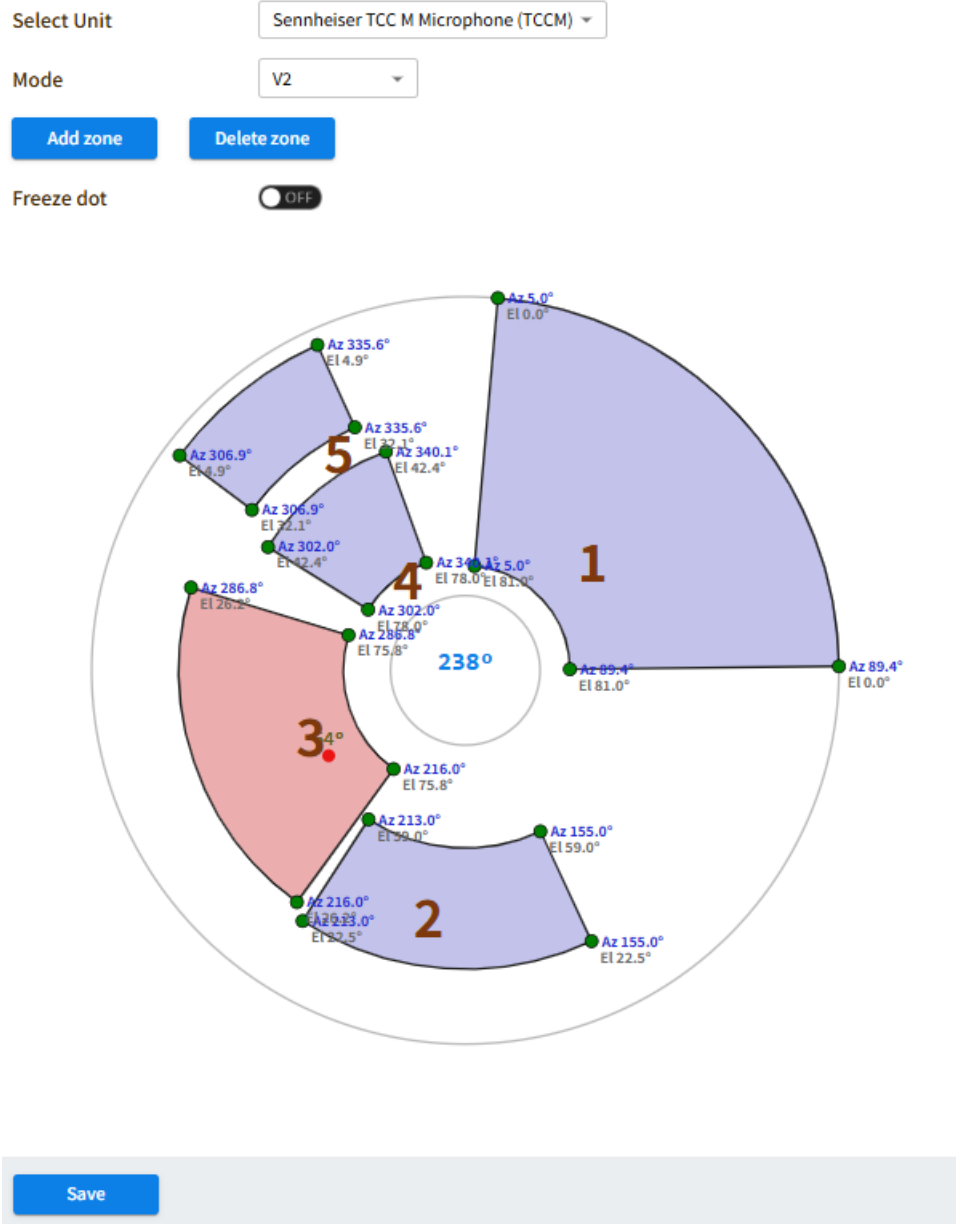
Mode V2 ▾

Add zone Delete zone

Freeze dot ☐ OFF



8. When voice activity is detected, a red dot will indicate the detected position. The dot is plotted using the azimuth angle and beam elevation reported by the microphone. The red dot will only appear if the audio level is above the threshold 'Mic trigger dB' set in the microphone's module setting.
9. Click the 'Add Zone' button and add zones as required, the currently selected zone will be shown in red.



10. Click 'Save' once you are happy with the zone configuration.

Sennheiser TCC 2

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

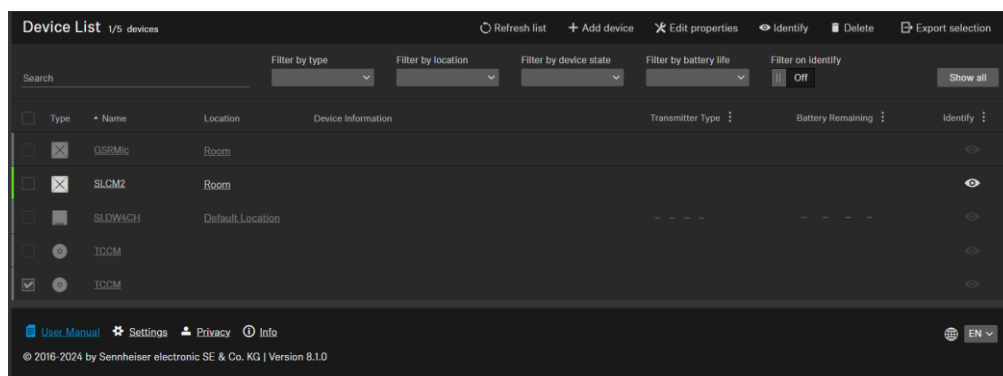
Network Connections: Install the Sennheiser TCC 2, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Installation Location: Decide on the installation location for the Sennheiser TCC 2. Choose a location that captures the participants' voices while considering the camera's field of view.

Firmware Updates: Ensure that the Sennheiser TCC 2 and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

1. Download and install the Sennheiser 'Control Cockpit' software
<https://www.sennheiser.com/en-us/catalog/applications/assistive-listening-and-audience-engagement/control-cockpit/control-cockpit-111111>
2. Open 'Control Cockpit' and navigate to the 'Devices Tab'
3. If the TCC2 is not listed, you can add it manually using its IP address



4. Click the TCC2 microphones name to access its settings

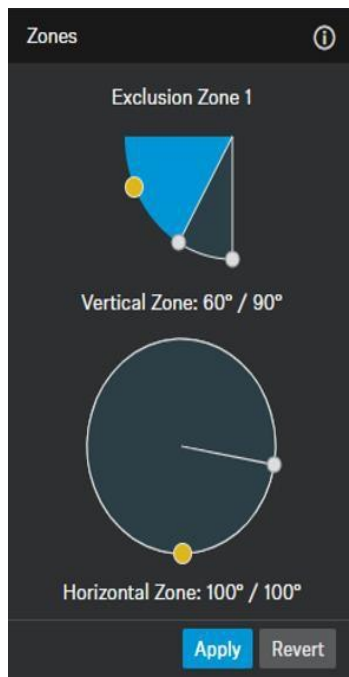
Zone Settings

The Sennheiser TCC 2 supports two types of zones:

Exclusion Zones

Exclusion Zones enable you to eliminate unwanted sources of constant noise. Up to five exclusion zones are supported. It is recommended to exclude any areas that will not be actively used.

Adjust the sliders to set a vertical and horizontal zone. The vertical zone can be adjusted from 0° to 90°, the Horizontal zone can be adjusted from 0° to 360°.



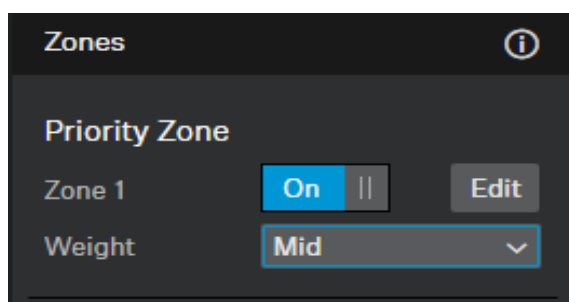
Priority Zones

The Priority Zone is used to keep the focus on the moderator's voice. The priority zone take priority over non-priority zones. One priority zone is supported, the 'Weight' can be set as follows:

Mid: Increases the weighting on the audio output from the selected zone by approximately 1.5 times the normal value.

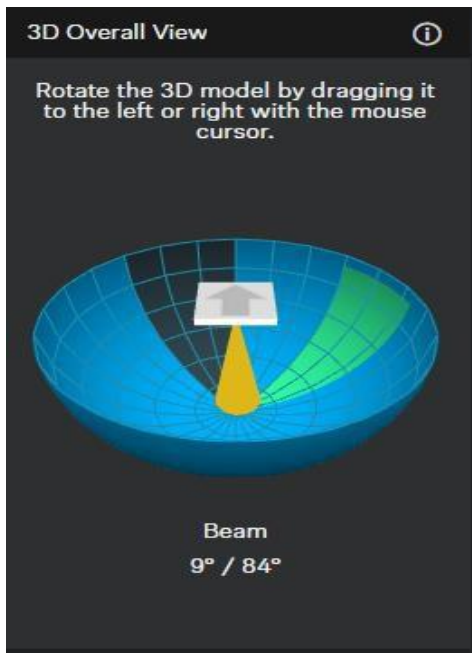
High: Increases the weighting on the audio output from the selected zone by approximately 2 times the normal value.

Max: Increases the weighting on the audio output from the selected zone by approximately 3 times the normal value.



The 3D view will display the current beam position (loudest speaker) and priority / exclusion zones in real time.

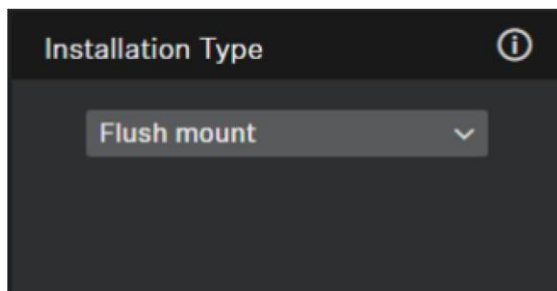
Priority zones are shown in green; exclusion zones are shown in dark blue. If both types of zone overlap, the exclusion zones will override the priority zone.



Audio Settings

Installation Type

Please ensure you set the appropriate installation type.



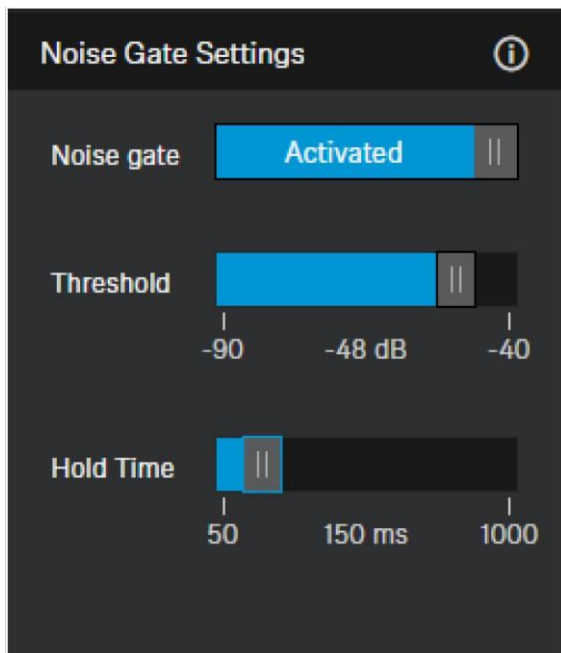
Flush Mount: The microphone array has been installed in or directly underneath the ceiling.

Suspended mount: The microphone array has been suspended from the ceiling.

Noise Gate

The noise gate function prevents the TCC M microphone from picking up unwanted background noise.

Threshold: The Noise Gate will open the audio output only after the audio level exceeds the set threshold for the set period.



Sensitivity Threshold

The Sensitivity Threshold setting lets you adjust the TCC M microphone's sensitivity to background noise to better identify the presenter. Depending on the setting, the sensitivity is either amplified or attenuated.

Normal(default): Recommended for speakers with a normal speaking volume.

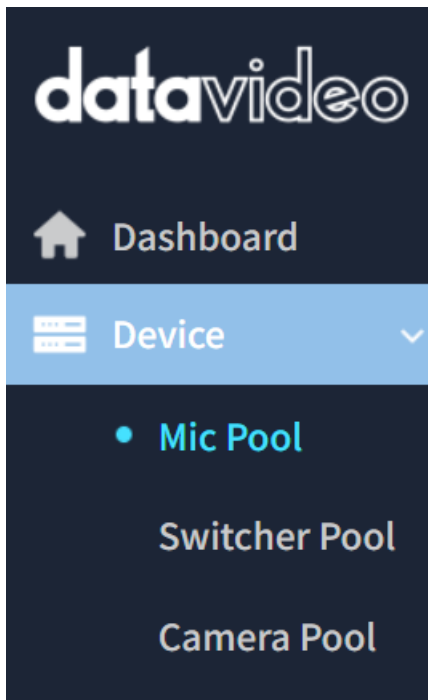
Quiet: Recommended for speakers with a quiet speaking volume. The sensitivity of the microphone is increased.

Loud: Recommended for speakers with a loud speaking volume. The sensitivity of the microphone is attenuated.

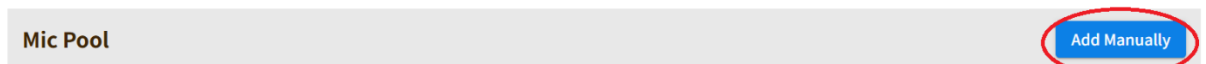
[VoiceTRX100 Configuration](#)

Connecting the Sennheiser TCC 2 microphone

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Sennheiser TCC-2' from the dropdown menu, enter a friendly name and the IP address of the Sennheiser TCC 2 microphone.

Add Manually

Select Module

Sennheiser TCC-2 Microphone

Friendly Name

Test TCC2

Device IP

192.168.100.231

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Mic Pool				Add Manually		
No.	Name	Status	IP			
7	Shure MXA 920(Automatic Coverage)(NEW-920)	-	192.168.100.55			
8	Sennheiser TCC-2 Microphone(Test TCC2)	-	192.168.100.231			

Showing 7 to 12 of 8 entries 6

Previous 1 2 Next

The following module options are available:

Device IP: IP address of the TCC2 microphone.

Port: Must match the port number set of the microphone, the default is 45.

Mic Trigger dB: A zone change will only be triggered if this level is exceeded. The range is -90 to 0 (Default -45).

Far end detection: Enable or disable far end detection.

Far end detection (Beam Freeze position): The 'Home' zone will be trigger when the microphones beam freeze function is ON. The beam freeze position is dependent on the microphones rotation setting.

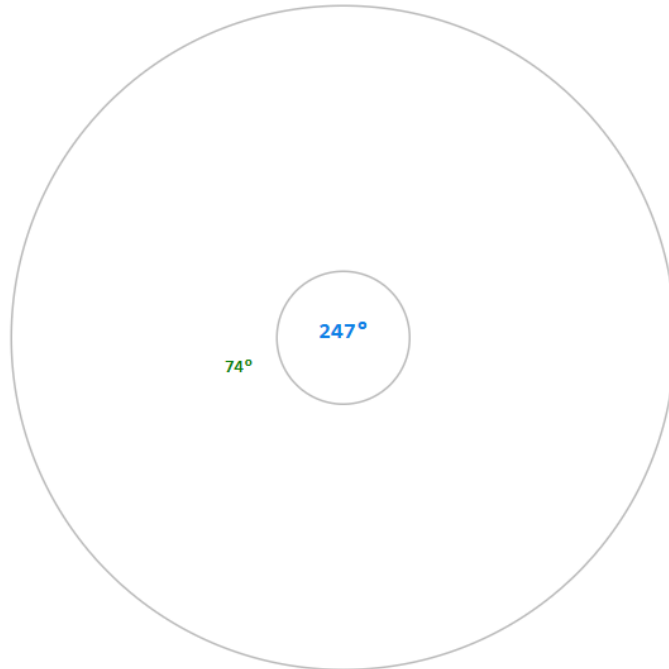
Zone Configuration

1. By default, the V2 mode is used, the legacy V1 mode is no longer recommended.

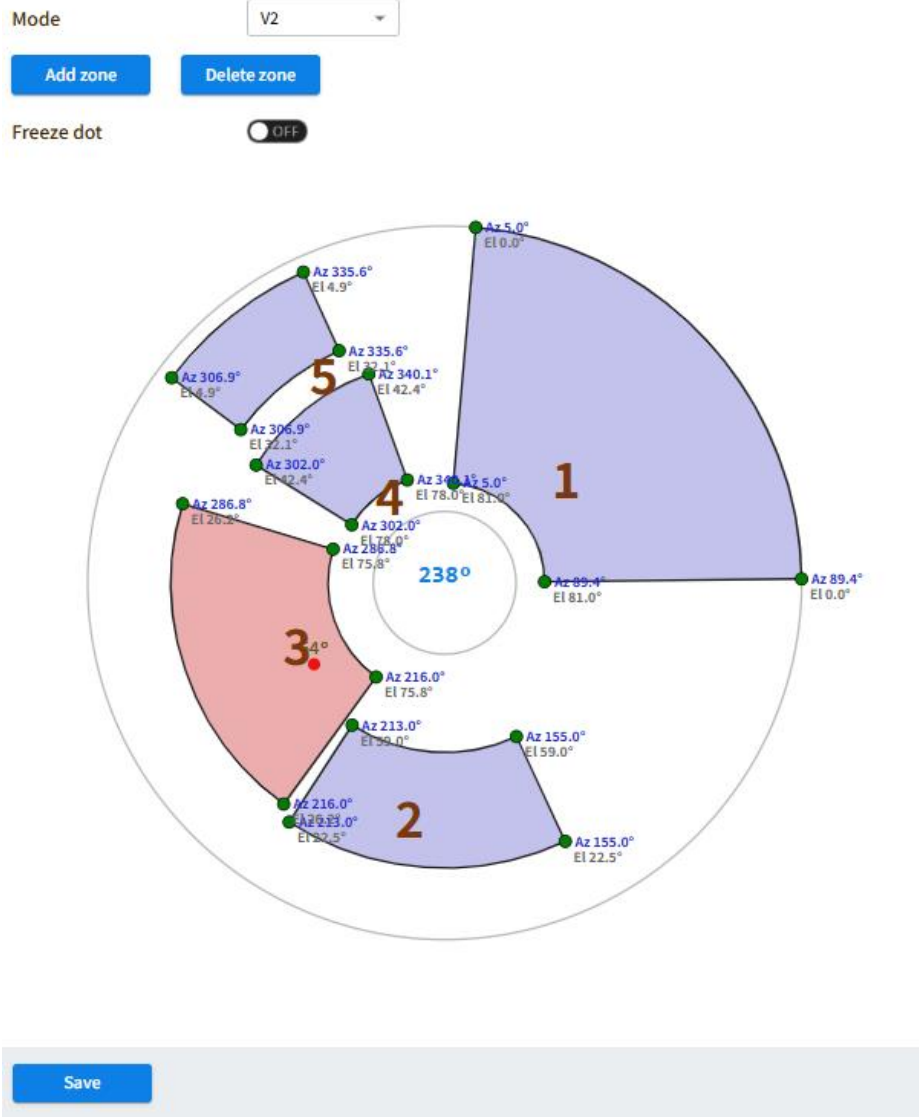
Mode V2

Add zone Delete zone

Freeze dot OFF



2. When voice activity is detected, a red dot will indicate the detected position. The dot is plotted using the azimuth angle and beam elevation reported by the microphone. The red dot will only appear if the audio level is above the threshold 'Mic trigger dB' set in the microphones module setting.
3. Click the 'Add Zone' button and add zones as required, the currently selected zone will be shown in red.



- Click 'Save' once you are happy with the zone configuration.

Audio-Technica ATND1061

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

Network Connections: Install the Audio-Technica ATND1061, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

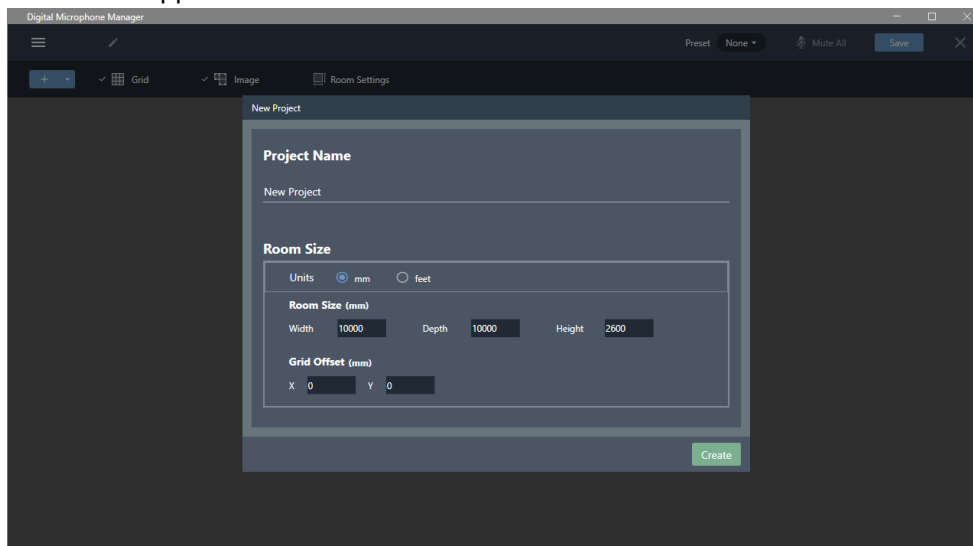
Installation Location: Decide on the installation location for the Audio-Technica ATND1061. Choose a location that captures the participants' voices while considering the camera's field of view.

Firmware Updates: Ensure that the Sennheiser TCC M and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

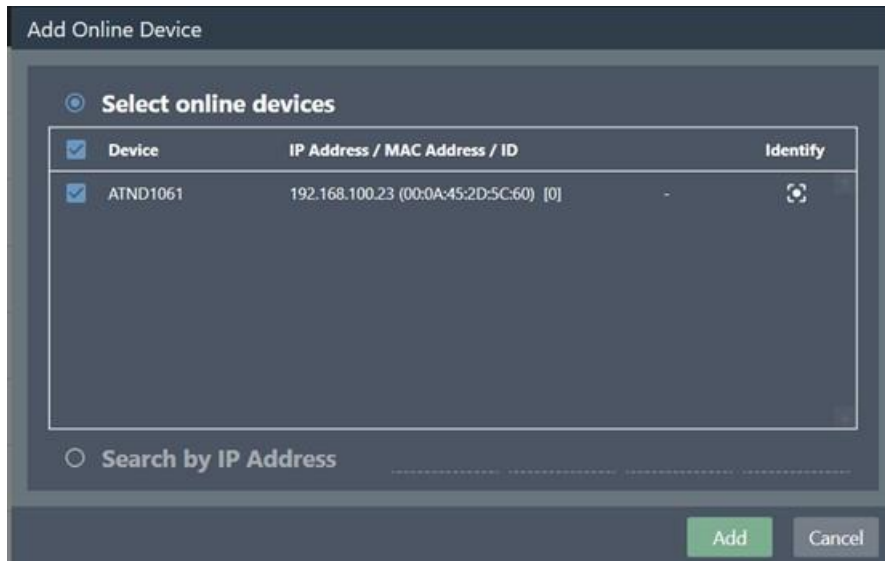
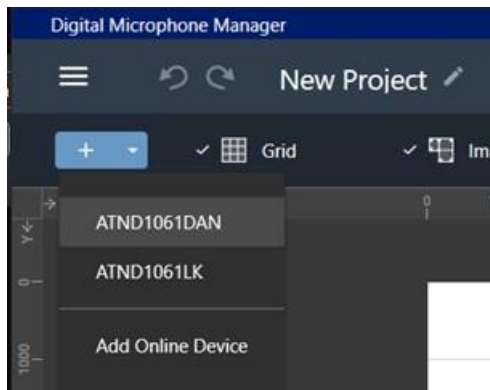
Download and install the Digital Microphone manager software <https://docs.audio-technica.com/eu/DigitalMicrophoneManager-1.0.1-Setup.zip>

Launch the app and set the room size and click the 'Create' button



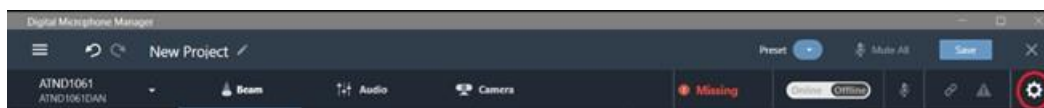
Click the '+' button in the top left corner and select 'Add Online Device'

Select the microphone and click 'Add'

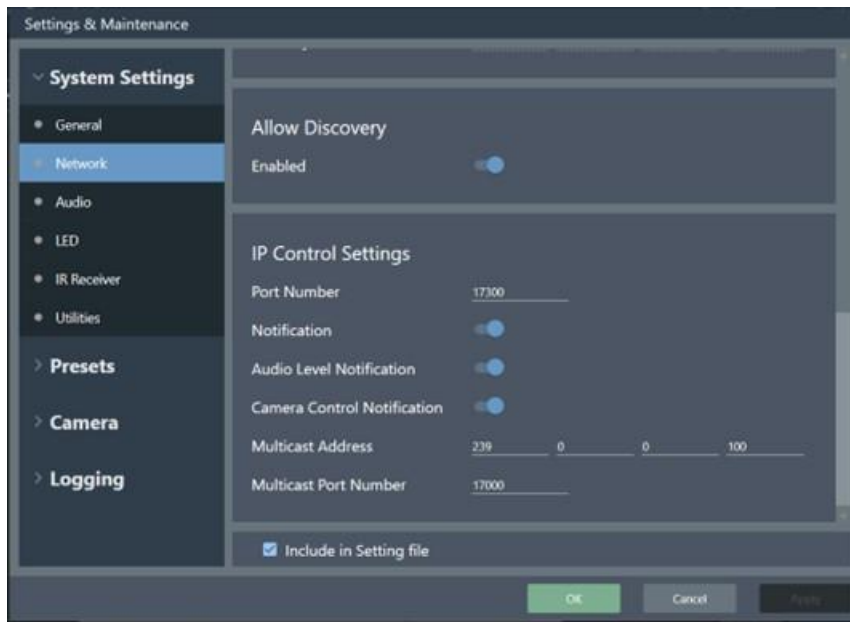


Enable third party access

Click the cog in the top right corner.



Click 'Network' and enable all notifications as below.



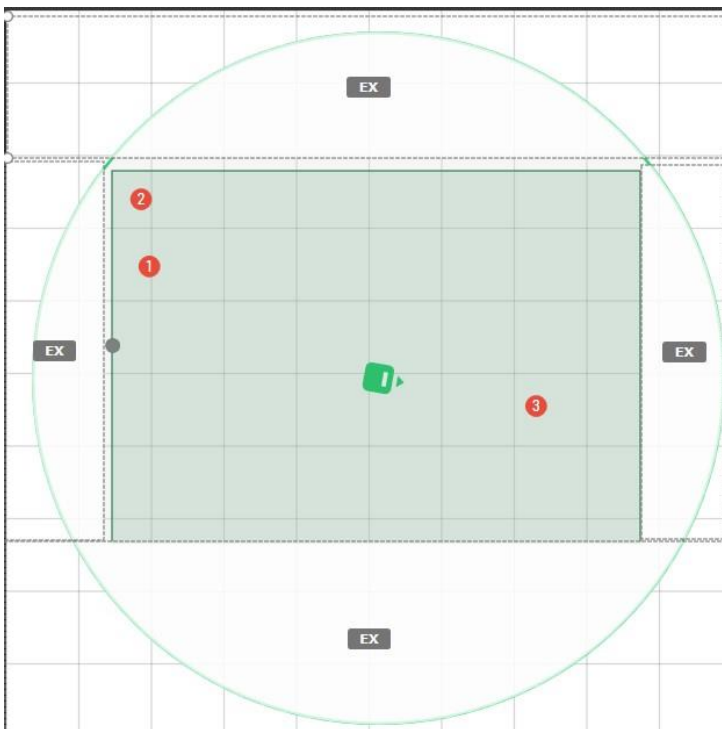
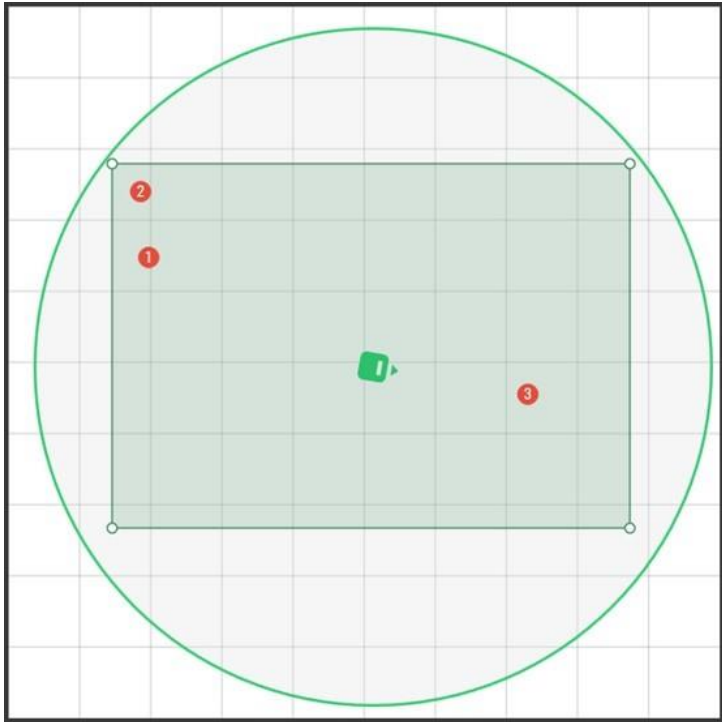
3. Make note of the IP address, you will need it to connect the ATND1061 to the VoiceTRX100 later.

Coverage and Camera Zone configuration

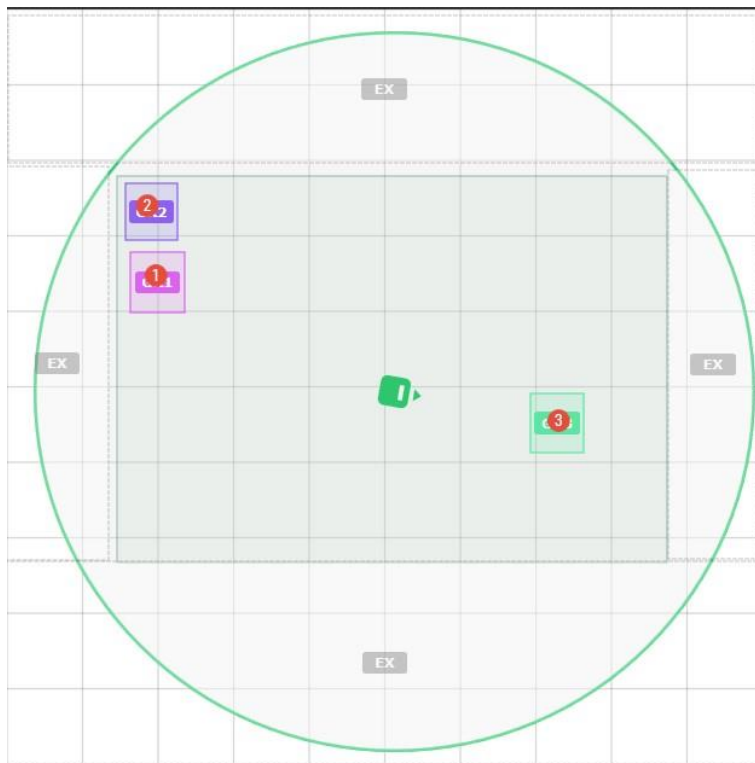
The UI will show a dot where audio is detected, you can use the 'Mark' option to mark the talker positions.



Add coverage and exclusions zones as required.



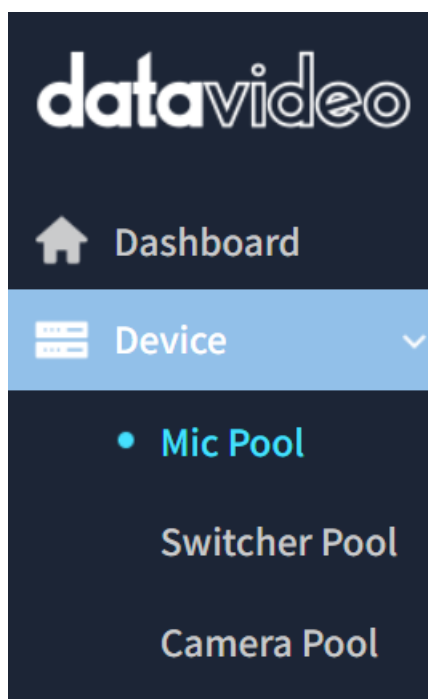
Add camera zones to cover the marked talker positions.



VoiceTRX100 Configuration

Connecting the Audio-Technica ATND1061 microphone

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Audio-Technica ATND 1000 Series' from the dropdown menu, enter a friendly name and the IP address of the Audio-Technica ATND microphone.

A screenshot of a modal window titled 'Add Manually' with a close button (X) in the top right corner. The form contains three input fields: 'Select Module' with a dropdown menu showing 'Audio-Technica ATND 1000 Series', 'Friendly Name' with the text 'Test ATND', and 'Device IP' with the text '192.168.100.11'. At the bottom right of the form is a blue button labeled 'Add'.

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

A screenshot of a web interface showing a table titled 'Mic Pool' with an 'Add Manually' button in the top right corner. The table has four columns: 'No.', 'Name', 'Status', and 'IP'. It contains two rows of data. The second row is highlighted, and its 'Edit' icon (a pencil) is circled in red. Below the table, there is a pagination bar showing 'Showing 7 to 12 of 8 entries', a dropdown menu set to '6', and navigation buttons for 'Previous', '1', '2' (which is active), and 'Next'.

The following module options are available:

Device IP: IP address of the ATND microphone.

Port: Must match the port number set of the microphone, the default is 17300.

Zones: Set the number of zones requires, this should match the number of camera zones set on the microphone.

Zone Configuration

Zones 1-15 on the VoiceTRX-100 are automatically mapped to camera zones 1-15 on the ATND 1061.

Shure MXA 920 (Automatic Coverage)

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

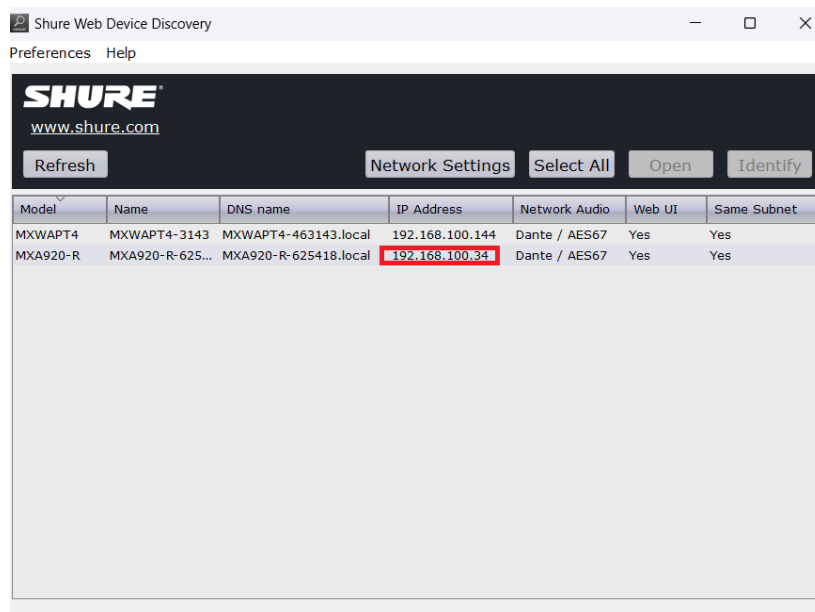
Network Connections: Install the Shure MXA 920, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Installation Location: Decide on the installation location for the Shure MXA 920. Choose a location that captures the participants' voices while considering the camera's field of view.

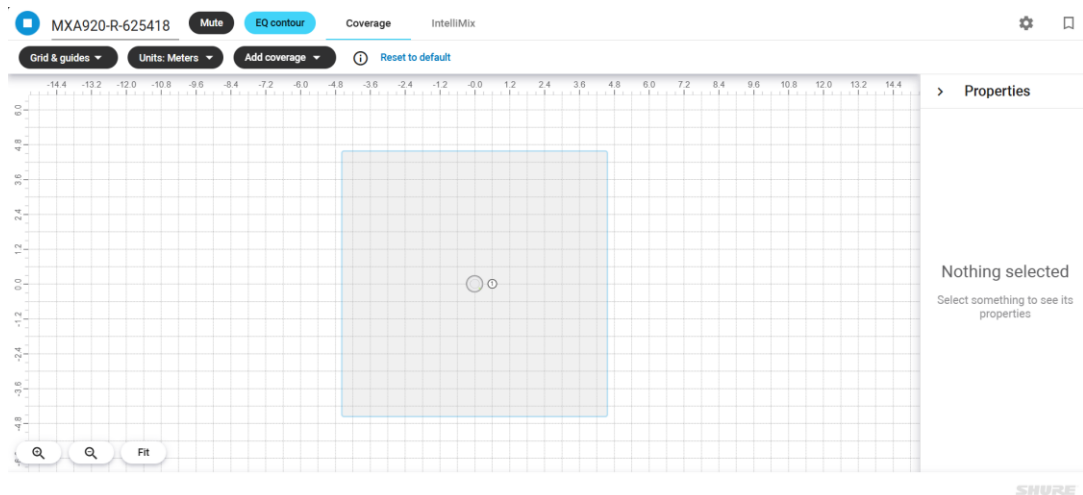
Firmware Updates: Ensure that the Shure MXA 920 and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

1. Download and install “Shure Web Device Discovery” software [Device Discovery - Shure Web Device Discovery Application - Shure USA](#).
2. Open the software and note the IP address of the Shure MXA 920.

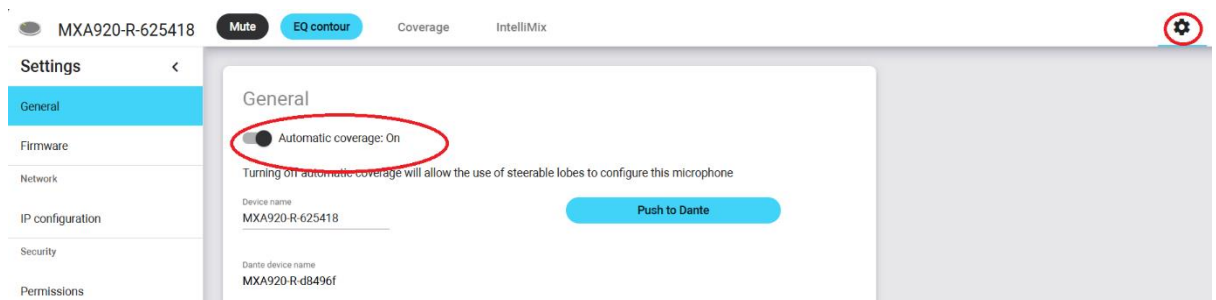


3. Type the IP address into your web browser to access the web interface of the Shure MXA 920.

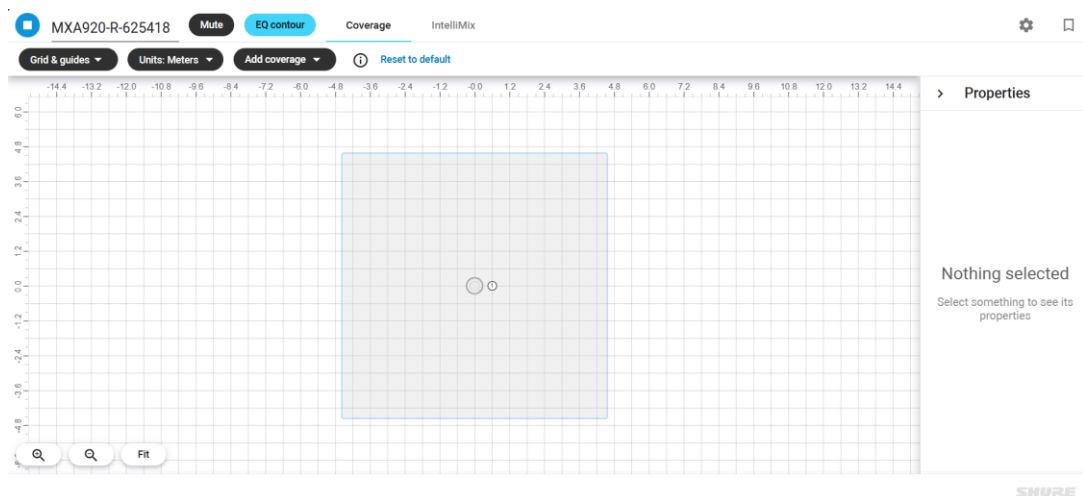


Coverage

1. 'Automatic Coverage' should be turned on.



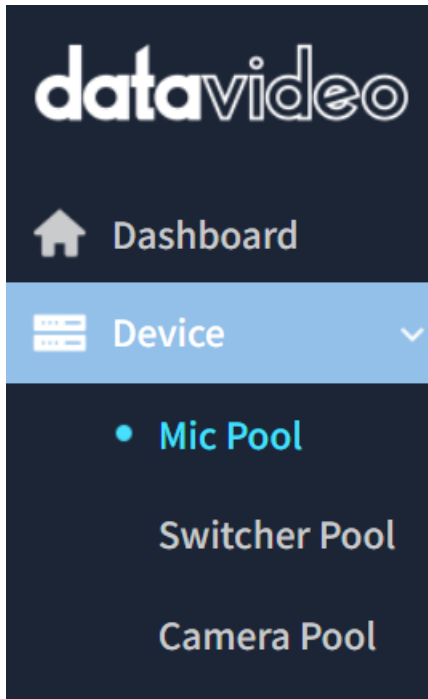
2. Add dynamic and dedicated coverage zones as required. By default, a single 9 x 9 dynamic coverage zone is enabled.



VoiceTRX100 Configuration

Connecting the Shure MXA 920 microphone

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Shure MXA-920 (Automatic Coverage)' from the dropdown menu, enter a friendly name and the IP address of the Shure MXA 920 microphone.

Add Manually ×

Select Module

Shure MXA 920(Automatic Coverage) ▼

Friendly Name







Test 920

Device IP

192.168.100.10 ×

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Mic Pool				Add Manually		
No.	Name	Status	IP			
7	Sennheiser TCC-2 Microphone(Test TCC2)	-	192.168.100.231			
8	Shure MXA 920(Automatic Coverage)(Test 920)	-	192.168.100.10			

Showing 7 to 12 of 8 entries

6

Previous

1

2

Next

The following module options are available:

Device IP: IP address of the Shure MXA 920 microphone.

Port: Must match the port number set of the microphone, the default is 2202.

Array height (cm): The array height from the floor. It takes on values of 122-914 centimetres (4-30 feet) in 1-centimetre increments.

Position Update Period (ms): 100ms to 99999ms. Represents how frequently talker positions should be reported.

These commands control the sensitivity of the algorithm that reports talker positions. Higher sensitivity means the algorithm is easier to trigger and therefore reports more positions.

Position Sensitivity (Localized): Controls the amount of localization data that the mic sends.

Position Sensitivity (VAD): Controls how sensitive the voice activity detection part of the algorithm is.

Position Sensitivity (Reflection/Height): Use to improve localization precision. You must provide an array mounting height to use this setting. Use reflection correction in rooms with many highly reflective surfaces.

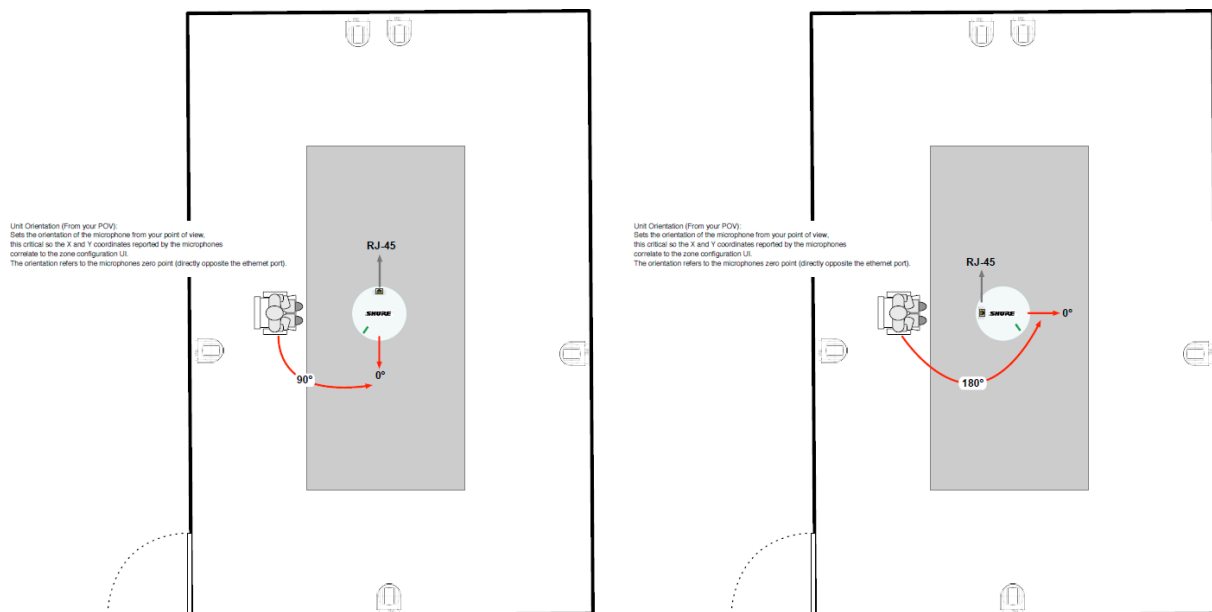
Min Elevation(cm): Set the minimum elevation, noise from outside this range will be ignored and will not trigger a zone change, use this setting to reduce the chance of noise pollution from above or below.

Max Elevation(cm): Set the maximum elevation, noise from outside this range will be ignored and will not trigger a zone change, use this setting to reduce the chance of noise pollution from above or below.

Far end Trigger dB: A zone change will only be triggered if this level is exceeded. The range is -90 to 0 (Default -45).

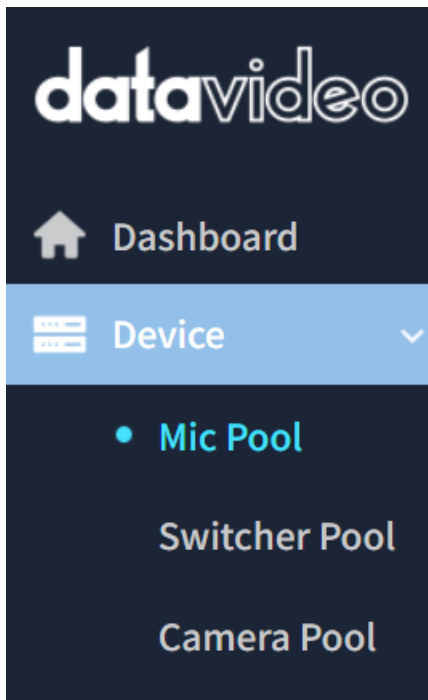
Far end detection: Enable or disable far end detection.

Unit Orientation (From your POV): Sets the orientation of the microphone from your point of view, this critical so the X and Y coordinates reported by the microphones correlate to the zone configuration UI. The orientation refers to the microphones zero point (directly opposite the ethernet port).



Zone Configuration

1. Click the 'Device Menu' and then 'Mic Pool'



2. Scroll down and select the microphone for which you want to configure zones from the dropdown menu.

Select Unit: Shure MXA 920(Automatic Coverage) (920) ▾

Grid Width: Grid Height: Add Zone

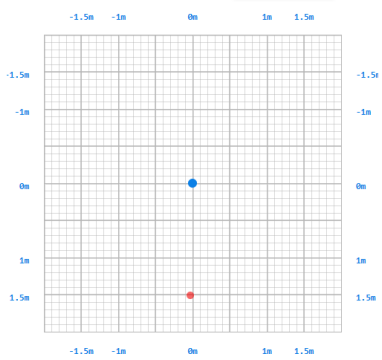
The visualization shows a 3x3 grid of squares. A blue dot is positioned in the center square. The horizontal axis (x) is labeled at the top and bottom with values: -1.5m, -1m, 0m, 1m, 1.5m. The vertical axis (y) is labeled on the left and right with values: -1.5m, -1m, 0m, 1m, 1.5m.

Save

3. Set Grid Width and height to match the size of the room. You must ensure the grid size is covered by dynamic or fixed coverage areas (previously configured).
4. When voice activity is detected, a red dot will indicate the detected position. The dot will remain in position for the duration of the 'Home Period' after the voice activity is no longer detected, this is to help you position the zones. If the dot does not move as expected, please check the **"Unit Orientation (From your POV)"** setting in the module settings.

Select Unit: Shure MXA 920(Automatic Coverage) (920) ▾

Grid Width: Grid Height: Add Zone

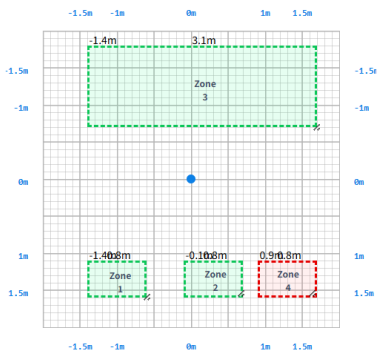


Save

- Click the 'Add Zone' button and add zones as required, the currently selected zone will be shown in red.

Select Unit: Shure MXA 920(Automatic Coverage) (920) ▾

Grid Width: Grid Height: Add Zone Delete zone



Save

- Click 'Save' once you are happy with the zone configuration.

Shure MXA 910/920 (Lobe gating mode)

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

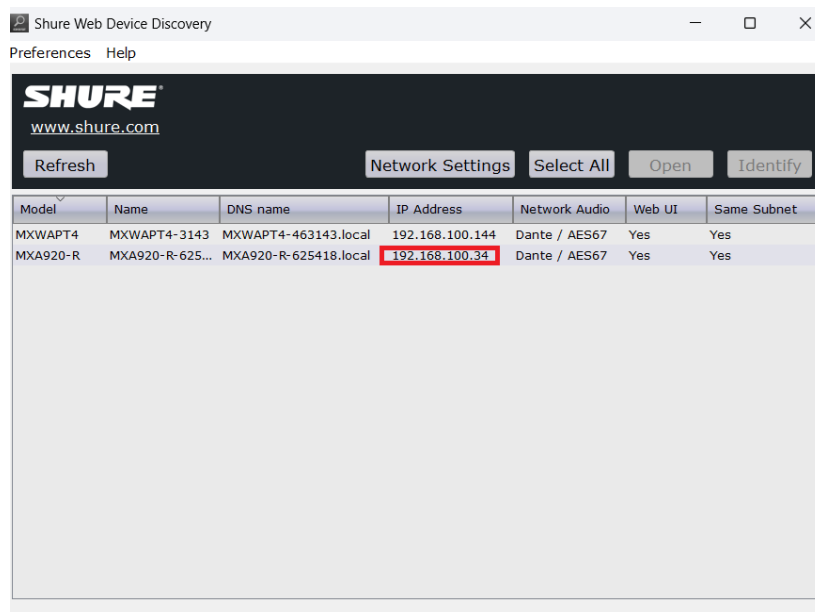
Network Connections: Install the Shure MXA 910/920, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Installation Location: Decide on the installation location for the Shure MXA 910/920. Choose a location that captures the participants' voices while considering the camera's field of view.

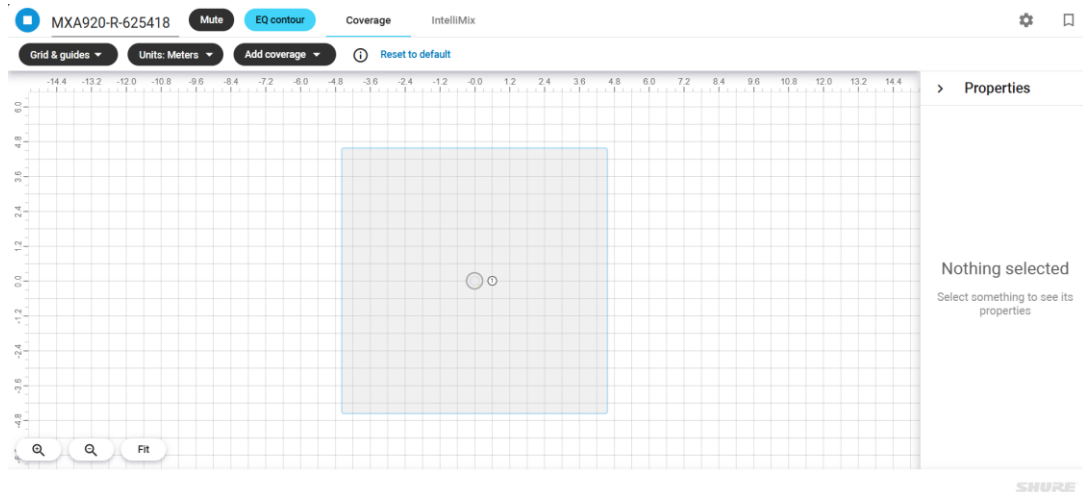
Firmware Updates: Ensure that the Shure MXA 910/920 and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

1. Download and install “Shure Web Device Discovery” software [Device Discovery - Shure Web Device Discovery Application - Shure USA](#).
2. Open the software and note the IP address of the Shure MXA 910/920.

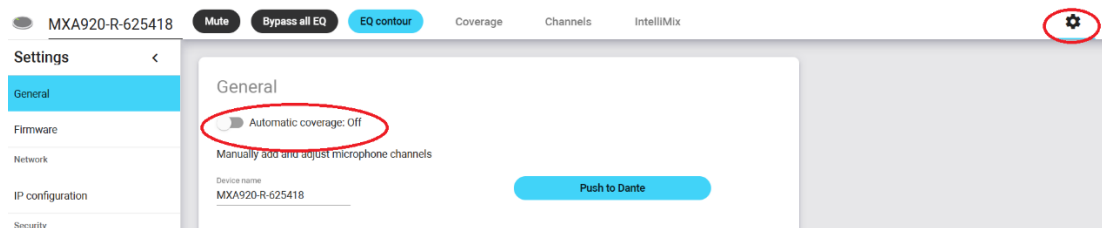


3. Type the IP address into your web browser to access the web interface of the Shure MXA 920.

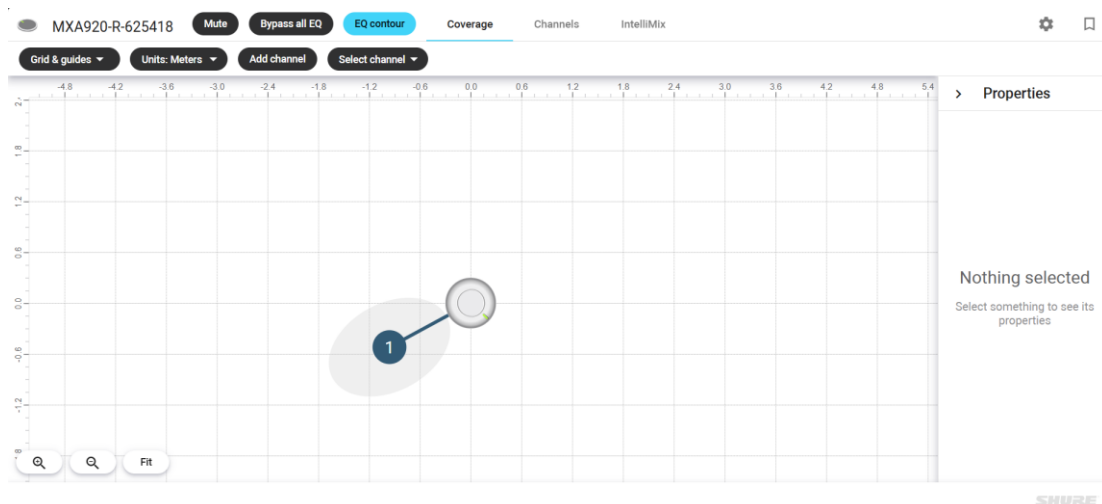


Coverage

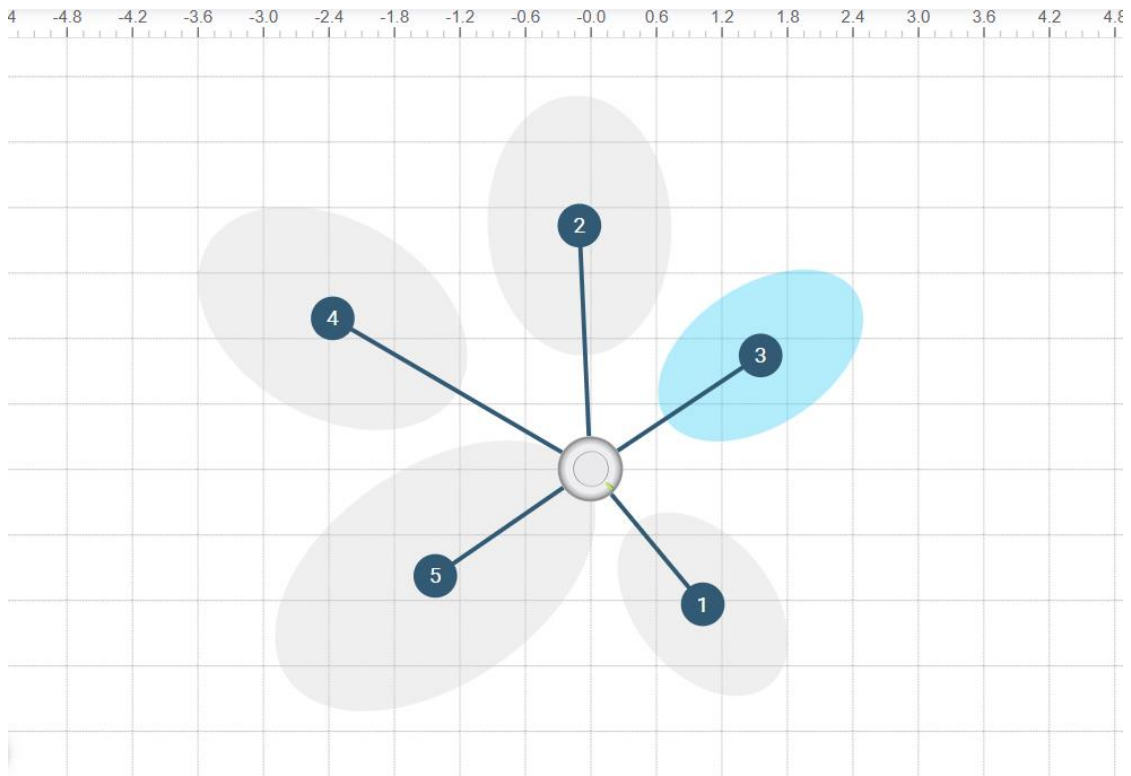
3. If you are using the Shure MXA 920 'Automatic Coverage' should be turned off.



4. Remove any existing channels, leaving only channel 1.



5. Add as many actional channels as required (maximum 8).



Auto Positioning

1. You will need to find someone to speak in each position.
2. Select channel X, then press the 'Auto position' button.
3. Press the 'Listen' button in the auto position window.

Auto position

×

Device name

MXA920-R-625418

Active channel

Channel 3

Status

Ready

-60 -48 -36 -24 -12 0

dBFS

Talker height (m)

1.22

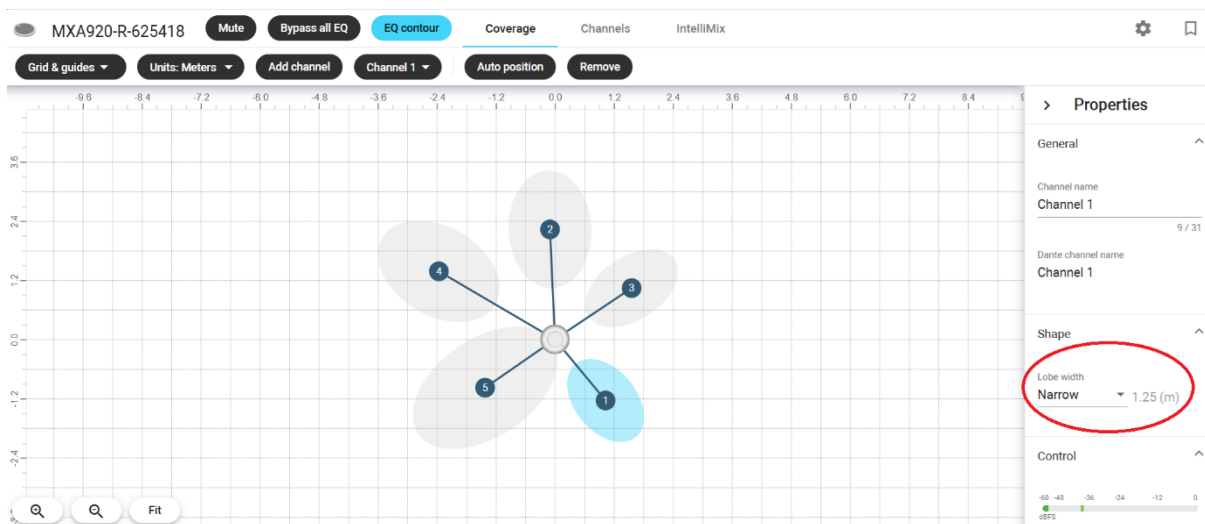
Cannot exceed device height: 2 (m)

Listen

- The position of channel X will be adjusted automatically.

Lobe width

Set the lobe width of each channel as “Narrow” or “Medium”. This will reduce the area covered by each lobe and increase the accuracy of voice tracking.



IntelliMix

Navigate to go to the 'IntelliMix' tab. The settings below will affect the audio tracking of VoiceTRX-100.

Priority

If we enable 'Priority' on channel 1 and both channel 1 and channel 2 are talking, the signal of Channel 1 will get priority. For example, if the main speaker is in the position of channel 1, channel 1 can be set with higher priority.



Always on

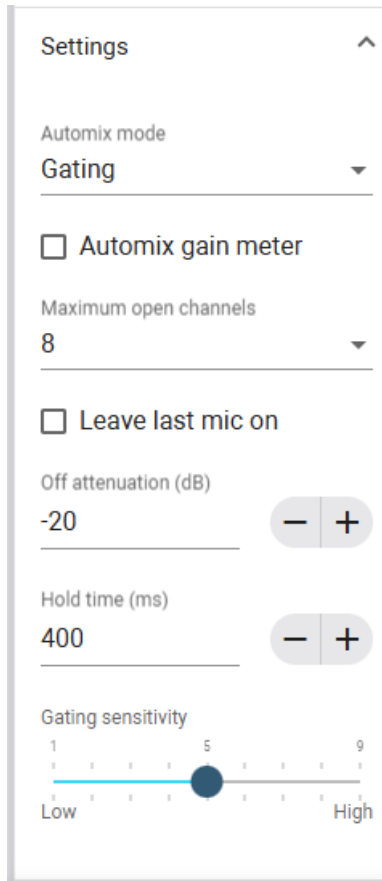
It is not recommended to leave a channel always on when using voice tracking.

Leave last mic on

If this feature is enabled, the last active mic will remain active and prevent the VoiceTRX-100 from activating the 'Home' zone even if the room is silent.

Gating Sensitivity

Changes the threshold of the level at which the gate is opened and VoiceTRX-100 will trigger the associated zone. The higher the number, the more sensitive the trigger will be, and the chance of a zone switch will be increased.

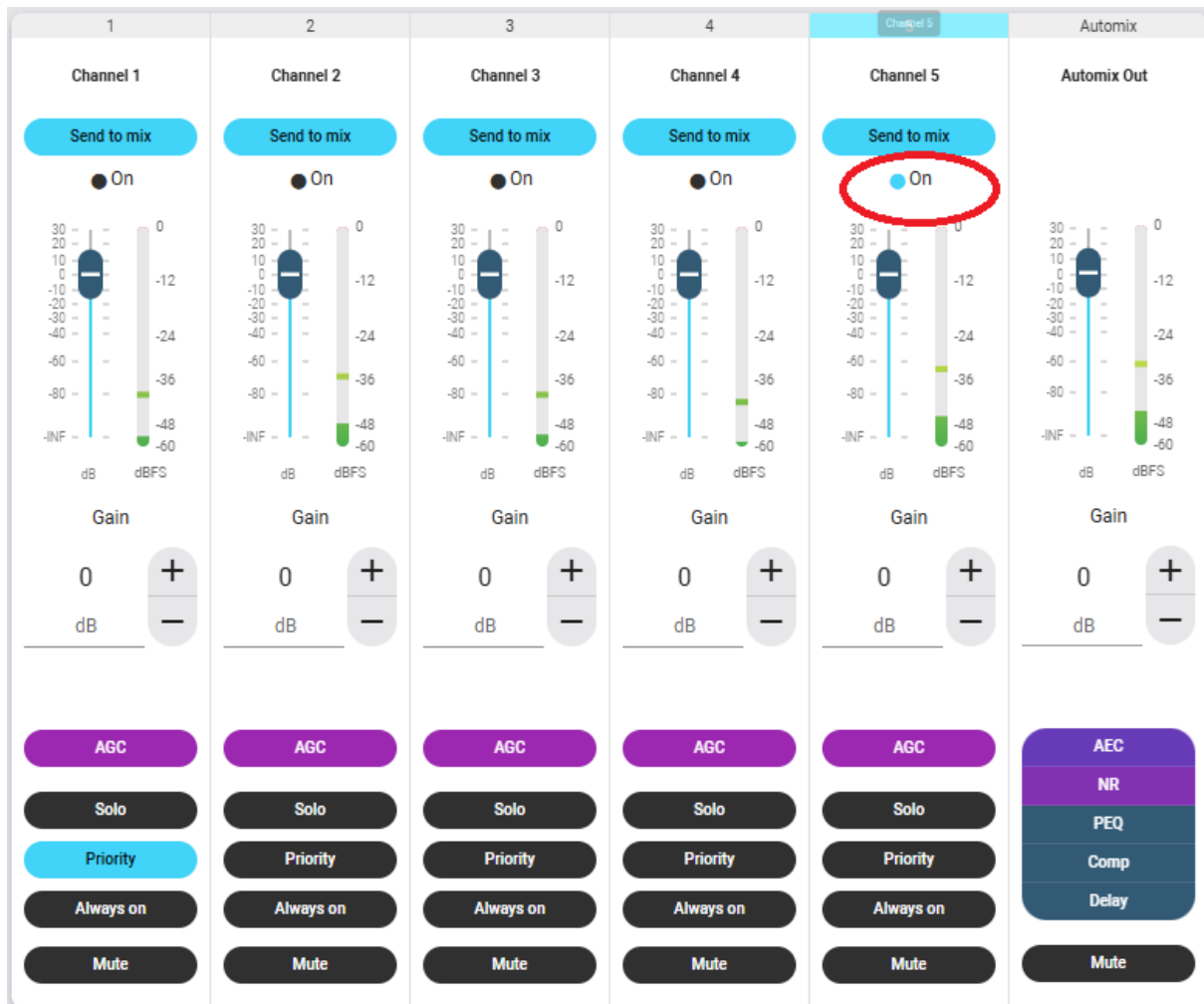


The screenshot shows the 'Settings' menu of the VoiceTRX-100 interface. The 'Gating' section is expanded, showing several configuration options:

- Automix mode:** Set to 'Gating'.
- Automix gain meter:** An unchecked checkbox.
- Maximum open channels:** Set to '8'.
- Leave last mic on:** An unchecked checkbox.
- Off attenuation (dB):** Set to '-20' with minus and plus adjustment buttons.
- Hold time (ms):** Set to '400' with minus and plus adjustment buttons.
- Gating sensitivity:** A slider control ranging from 'Low' (1) to 'High' (9), with the current value set at 5.

Channel Testing

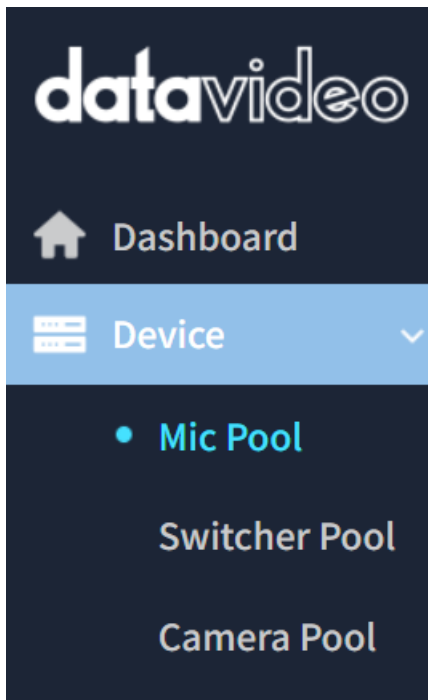
On the IntelliMix tab, you can check if the correct channel is activated when someone speaks in that position. The VoiceTRX-100 maps channels 1-8 to zones 1-8, it relies on the correct channel being activated.



VoiceTRX100 Configuration

Connecting the Shure MXA 910/920 microphone

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Shure MXA-910/920 (Lobe Gating)' from the dropdown menu, enter a friendly name and the IP address of the Shure MXA 910/920 microphone.

A screenshot of the 'Add Manually' form. The form has a title 'Add Manually' with a close icon. It contains three fields: 'Select Module' with a dropdown menu showing 'Shure MXA 910/920 (Lobe Gating)', 'Friendly Name' with a text input field containing 'Test 910', and 'Device IP' with a text input field containing '192.168.100.222' and a clear icon. At the bottom right is a blue 'Add' button.

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Mic Pool					Add Manually		
No.	Name	Status	IP				
7	Sennheiser TCC-2 Microphone(Test TCC2)	-	192.168.100.231				
8	Shure MXA 910/920 (Lobe Gating)(Test 910)	-	192.168.100.222				

Showing 7 to 12 of 8 entries 6 Previous 1 2 Next

The following module options are available:

Device IP: IP address of the MXA 910/920 microphone.

Port: Must match the port number set of the microphone, the default is 22022.

Far end Trigger dB: A zone change will only be triggered if this level is exceeded. The range is -90 to 0 (Default -45).

Far end detection: Enable or disable far end detection.

Zone Configuration

Zones 1-8 on the VoiceTRX-100 are automatically mapped to lobes 1-8 on the Shure MXA 910/920.

Shure MXW

Supported receivers

The following receivers are supported:

- MXWAPT2
- MXWAPT4
- MXWAPT8

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

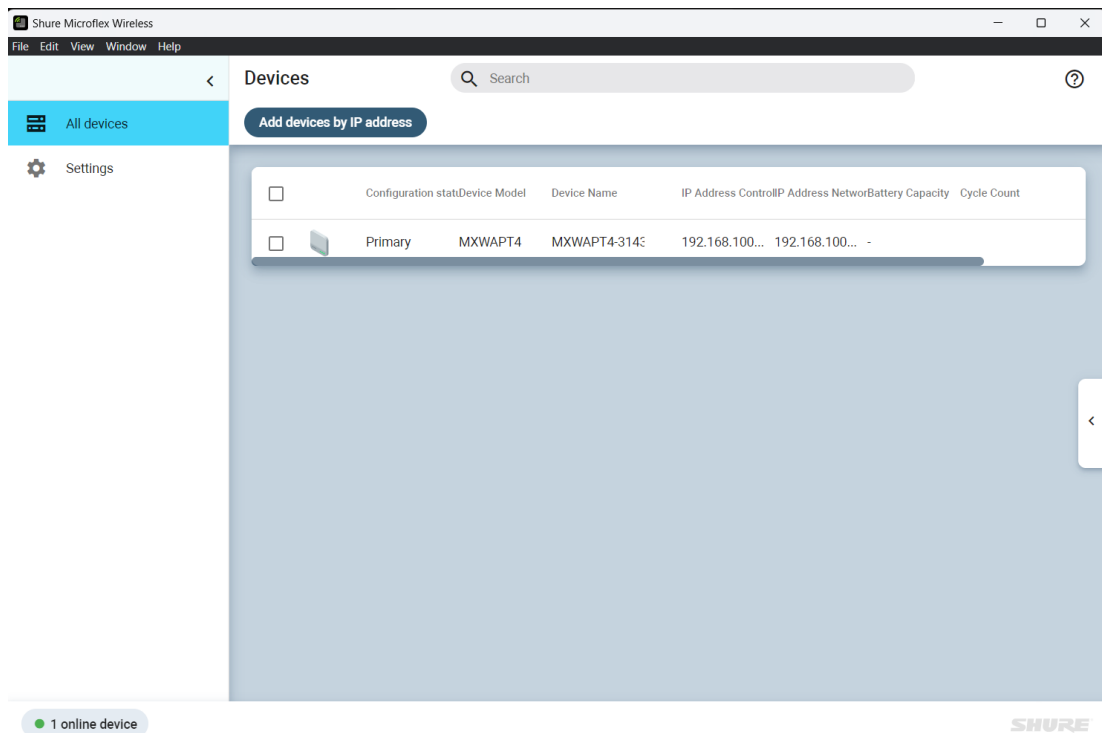
Network Connections: Install the Shure MXW receiver, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Firmware Updates: Ensure that the Shure MXW and all Datavideo equipment is updated to the latest version before configuration.

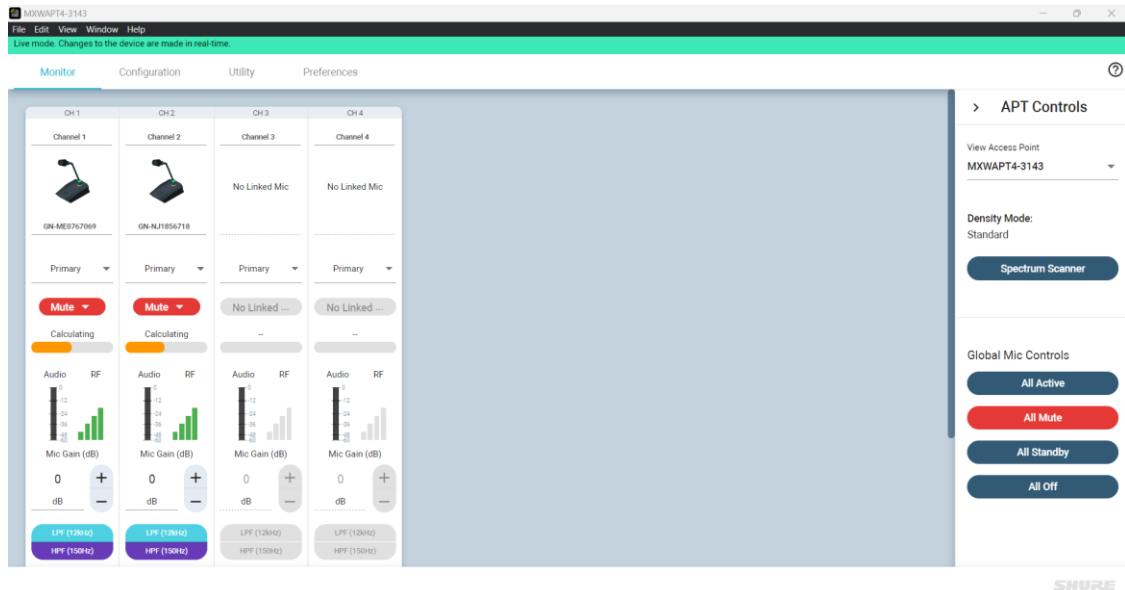
Discover the receiver and access the configuration UI

1. Download and install "Shure Microflex Wireless" [Microflex Wireless Software - Software Application - Shure United Kingdom](#).

2. Open the software, the MXW receiver should be listed.



3. Double click the receiver to access the settings, the default password is 'admin'.



Switch behaviour

1. Click the 'Preferences' tab.
2. Select the desired switch behaviour:

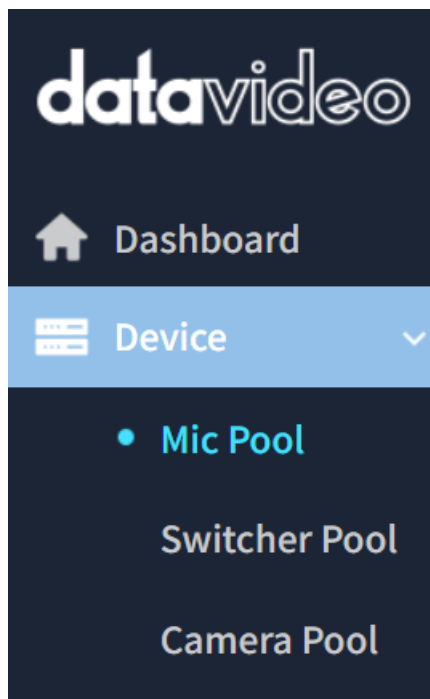
- Push-to-Talk – The switch must be held down to unmute the microphone.
- Toggle – The microphone will be muted and unmuted with each button press.
- Push-to-Mute – The switch must be held down to mute the microphone.

Transmitter Type	Switch Behavior	Initial State From Charger	Active/Mute LED Behavior
Gooseneck	Push-to-Talk ▼	Active ▼	Solid Green / Solid Red ▼
Boundary	Toggle ▼	Active ▼	Solid Green / Solid Red ▼
Bodypack	Toggle ▼	Active ▼	Solid Green / Solid Red ▼
Handheld	Toggle ▼	Active ▼	Solid Green / Solid Red ▼

VoiceTRX100 Configuration

Connecting the Shure MXW receiver

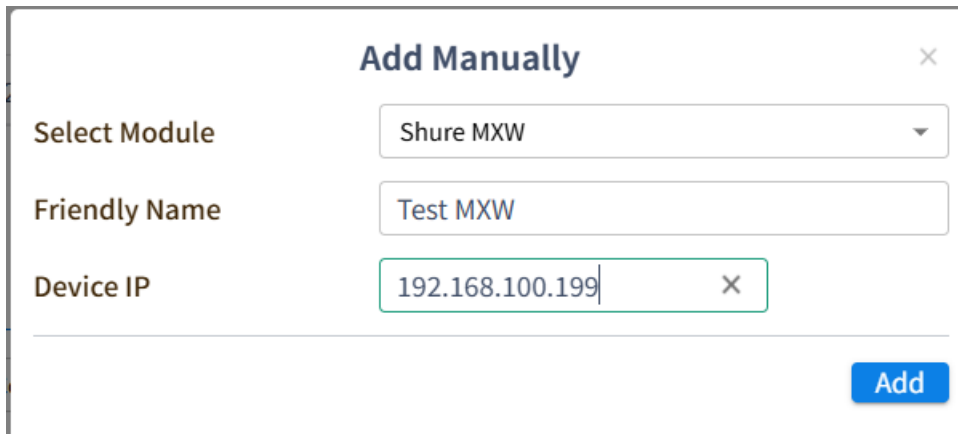
1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.

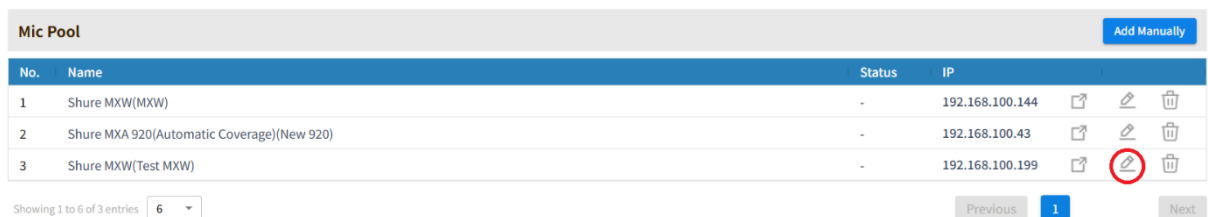


3. Select 'Shure MXW' from the dropdown menu, enter a friendly name and the IP address of the Shure MXW receiver.



The screenshot shows a web interface titled "Add Manually" with a close button (X) in the top right corner. Below the title, there are three input fields: "Select Module" with a dropdown menu showing "Shure MXW", "Friendly Name" with a text box containing "Test MXW", and "Device IP" with a text box containing "192.168.100.199" and a clear button (X). At the bottom right, there is a blue "Add" button.

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.



The screenshot shows a table titled "Mic Pool" with a header row containing "No.", "Name", "Status", "IP", and three action icons (copy, edit, delete). The table has three rows of data. The third row, representing the "Shure MXW(Test MXW)" microphone, has its edit icon circled in red. Below the table, there is a pagination bar showing "Showing 1 to 6 of 3 entries" and a "Previous" button, followed by a blue button labeled "1", and a "Next" button.

No.	Name	Status	IP			
1	Shure MXW(MXW)	-	192.168.100.144			
2	Shure MXA 920(Automatic Coverage)(New 920)	-	192.168.100.43			
3	Shure MXW(Test MXW)	-	192.168.100.199			

The following module options are available:

Device IP: IP address of the MXW receiver.

Port: Must match the port number set of the receiver, the default is 2202.

Logic Trigger Field: Select if zone changes should be triggered by the microphones mute state or audio level.

Mic Trigger level: This setting is only valid when the trigger is set to audio level. A zone change will only be triggered if this level is exceeded. The range is -90 to 0 (Default -45).

Zone Configuration

Zones 1-8 on the VoiceTRX-100 are automatically mapped to microphones 1-8 on the MXW receiver.

If more than one microphone is active, the 'Home' zone will be triggered

Shure MXCW

Preparation

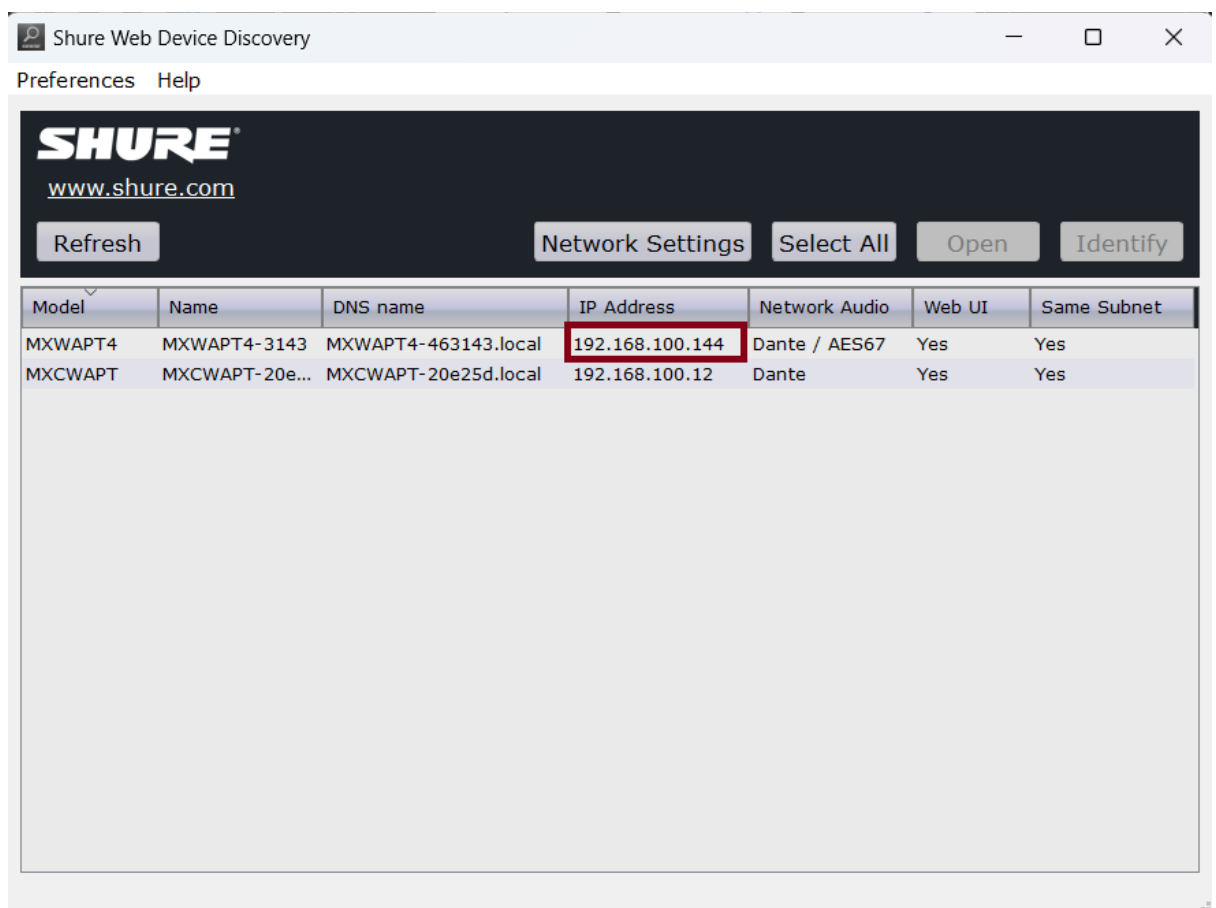
Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

Network Connections: Install the Shure MXCW conference unit, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

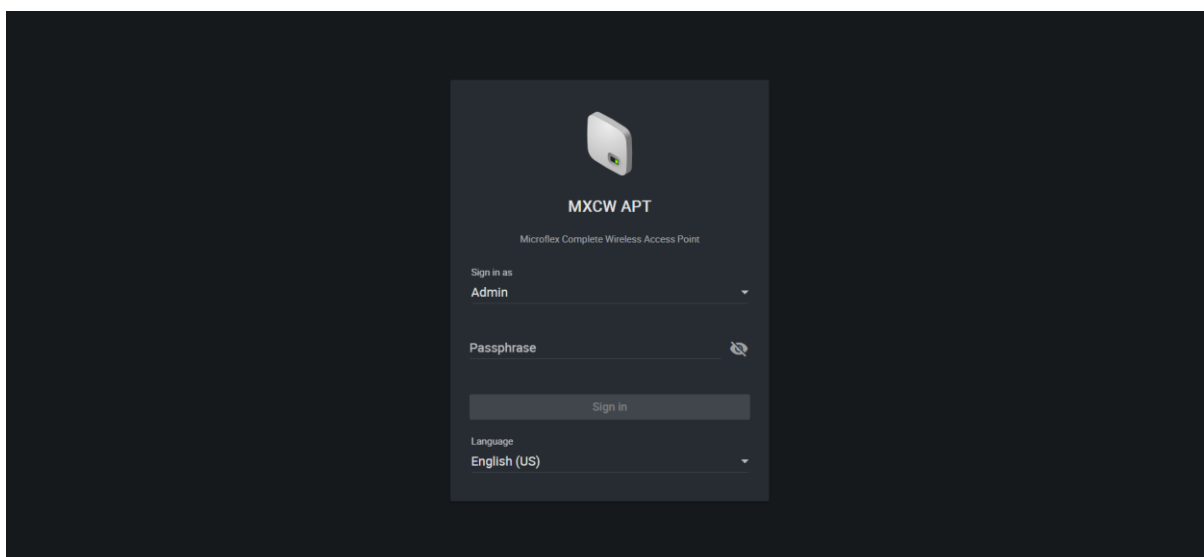
Firmware Updates: Ensure that the Shure MXCW and all Datavideo equipment is updated to the latest version before configuration.

Discover the conference unit and access the configuration UI

1. Download and install “Shure Web Device Discovery” software [Device Discovery - Shure Web Device Discovery Application - Shure USA](#).
2. Open the software and note the IP address of the Shure MXCW receiver.



3. Type the IP address into your web browser to access the web interface of the Shure MXCW receiver.







Meeting Controls

The MXCW system allows up to 8 active speakers. Once the speaker list is full, participants must wait until their turn to speak. If they attempt to speak before their turn, their microphone LED ring flashes momentarily and then turns off as a reminder.

There are several meeting controls that will affect the way the VoiceTRX100 system behaves.

To configure the meeting controls:

1. Click the 'Meeting Controls' tab.
2. Set the speak mode and number of active speakers and active speakers as required:
 - Speak mode – The speak mode determines the way the participants use their microphones in a group setting.

MODE	DESCRIPTION	HOW IT WORKS
Automatic (default)	Press to speak 	Speak button turns on participant microphone. There is no request queue: when the speaker list is full, the mic does not turn on.
FIFO (First in, first out)	Automatic request queue 	Speak button adds participant to a queue system. The next microphone in queue turns on automatically once a space is open in the speaker list. Once the speaker list is full, participants are placed into a chronological request queue.
Manual	Managed request queue 	Speak button adds the participant to a request queue that is managed by the chairperson or operator.
Handsfree	Speak into microphone 	Microphone turns on automatically when chairperson or delegate speaks. See Handsfree Mode for more information.

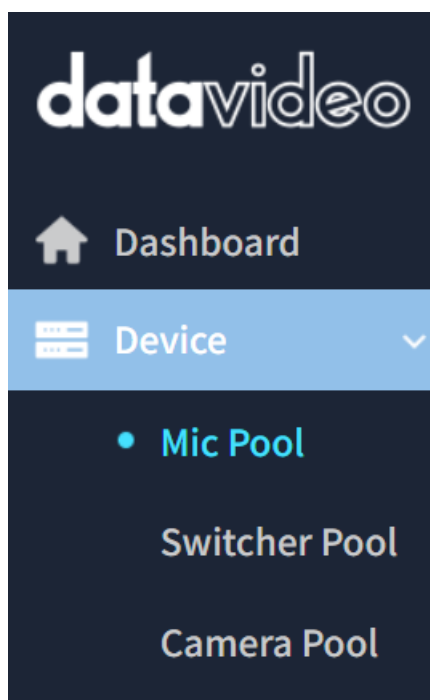
- Maximum number of active speakers – This setting limits how many speakers can be active at once (including chairpersons).
 - Maximum number of delegate speakers – This setting limits how many delegate speakers can be active at once, this setting does not limit chairpersons.
 - Maximum Requests: Total number of participants that can be in the request queue. This is only available in Manual and FIFO mode.
3. Click the 'Advanced' tab on the left of the screen.
 4. Set the active speaker interruption as required:
 - Not allowed
 - Higher speak priority allowed (default)
 - Equal or higher speak priority allowed

Please consult the 'Speak Priority' section of the Shure MXCW manual for more information on adjusting individual participants' priority.

VoiceTRX100 Configuration

Connecting the Shure MXCW conference unit

1. Click the 'Device Menu' and then 'Mic Pool'



- Click the 'Add Manually' button under the 'Mic Pool' heading.



- Select 'Shure MXCWAPT Microflex' from the dropdown menu, enter a friendly name and the IP address of the Shure MXCW receiver.

A screenshot of a modal form titled 'Add Manually' with a close button (X) in the top right corner. The form contains three input fields: 'Select Module' with a dropdown menu showing 'Shure MXCWAPT Microflex®', 'Friendly Name' with the text 'Test MXCW', and 'Device IP' with the text '192.168.100.12'. At the bottom right of the form is a blue button labeled 'Add'.

- Click the 'Add' button.
- You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

A screenshot of a table titled 'Mic Pool' with an 'Add Manually' button in the top right corner. The table has four columns: 'No.', 'Name', 'Status', and 'IP'. It contains two rows of data. The first row has '1' in the 'No.' column, 'Shure MXW(MXW)' in the 'Name' column, 'Enabled' in the 'Status' column, and '192.168.100.144' in the 'IP' column. The second row has '2' in the 'No.' column, 'Shure MXCWAPT Microflex®(MXCW)' in the 'Name' column, 'Enabled' in the 'Status' column, and '192.168.100.12' in the 'IP' column. To the right of each row are three icons: a document, a pencil (edit), and a trash can. The edit icon for the second row is circled in red. Below the table, there is a pagination bar showing 'Showing 1 to 6 of 2 entries' and a dropdown menu set to '6'. At the bottom right are 'Previous', '1', and 'Next' buttons.

The following module options are available:

Device IP: IP address of the MXCW receiver.

Port: Must match the port number set of the receiver, the default is 2202.

Zone Configuration

Zones 1-125 on the VoiceTRX-100 are automatically mapped to microphones 1-125 on the MXCW receiver.

Behaviour

Total speakers' mode

-If more than one microphone is active, the 'Home' zone will be triggered, unless the chairperson is active, in that case the chairperson will be prioritized.

-If more than one chairperson is active, the 'Home' zone will be triggered.

Last speaker mode

-If more than one microphone is active, the last one to go active will be prioritized unless the chairperson is active, in that case the chairperson will be prioritized.

-If more than one chairperson is active, the last one to go active will be prioritized.

Sennheiser Speech line

Supported receivers

All SL MCR DW receivers are supported.

Preparation

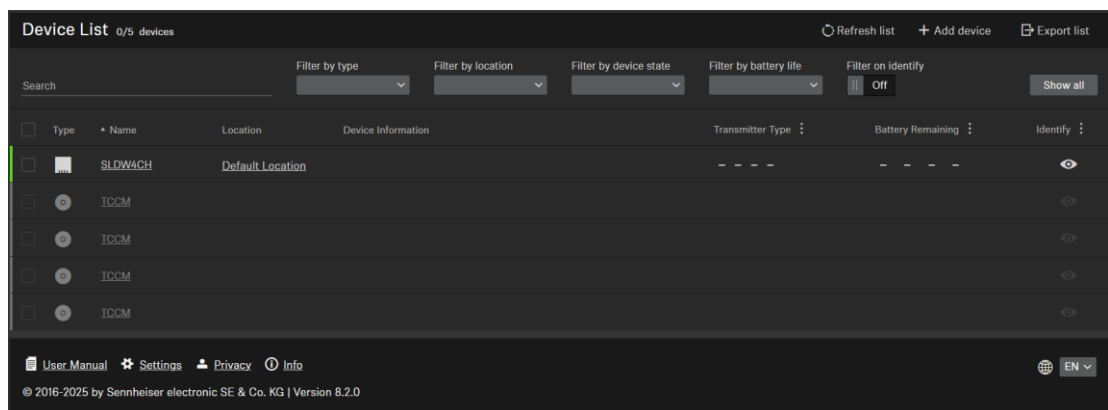
Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

Network Connections: Install the Sennhesier SLDW receiver, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Firmware Updates: Ensure that the Sennheiser SLDW receiver and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

1. Download and install the Sennheiser 'Control Cockpit' software
<https://www.sennheiser.com/en-us/catalog/applications/assistive-listening-and-audience-engagement/control-cockpit/control-cockpit-111111>
2. Open 'Control Cockpit' and navigate to the 'Devices Tab'
3. If the SLDW receiver is not listed, you can add it manually using its IP address

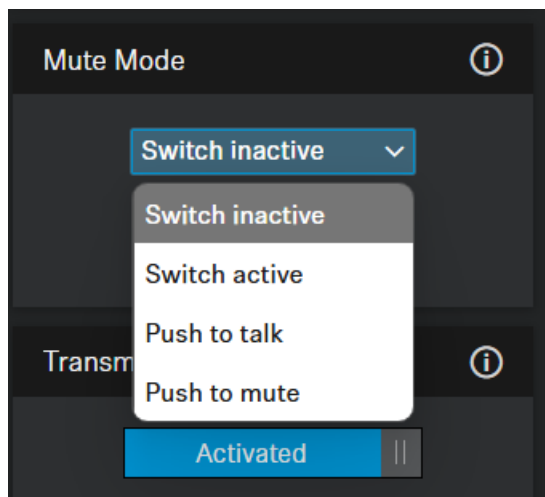


4. Click the SLDW receiver name to access its settings

Switch behaviour

The 'Mute mode' is set per microphone.

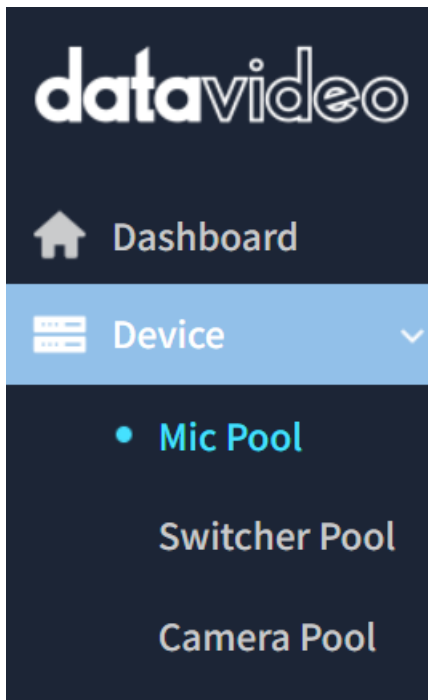
1. Select the microphone in the Sennheiser Control Cockpit
2. Select the desired mute mode:
 - Switch inactive – The microphone will always be unmuted
 - Switch active – The microphone will be muted and unmuted with each button press.
 - Push-to-talk – The switch must be held down to unmute the microphone.
 - Push-to-Mute – The switch must be held down to mute the microphone.



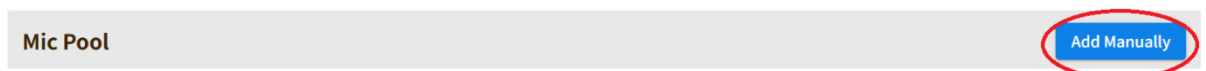
VoiceTRX100 Configuration

Connecting the Sennheiser SLDW receiver

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Sennheiser Speechline' from the dropdown menu, enter a friendly name and the IP address of the SLDW receiver.

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Mic Pool				Add Manually		
No.	Name	Status	IP			
1	Shure MXCWAPT Microflex®(MXCW)	Enabled	192.168.100.36			
2	Sennheiser Speechline(Test SLDW)	Enabled	192.168.100.33			

Showing 1 to 6 of 2 entries 6 Previous 1 Next

The following module options are available:

Device IP: IP address of the MXW receiver.

Port: Must match the port number set of the receiver, the default is 2202.

Logic Trigger Field: Select if zone changes should be triggered by the microphones mute state or audio level.

Mic Trigger level: This setting is only valid when the trigger is set to audio level. A zone change will only be triggered if this level is exceeded. The range is -90 to 0 (Default -45).

Zone Configuration

Zones 1-4 on the VoiceTRX-100 are automatically mapped to microphones 1-4 on the SLDW receiver.

If more than one microphone is active, the 'Home' zone will be triggered

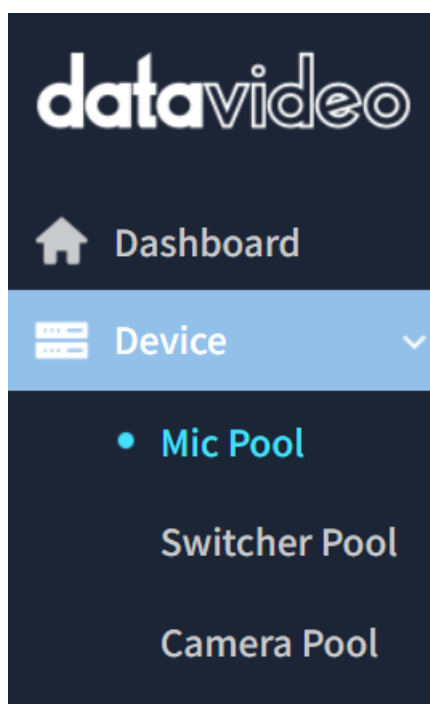
Generic TCP Input

The generic TCP input module works like a fake microphone, allowing third party DSPs and audio consoles to trigger zones on the VoiceTRX-100.

VoiceTRX100 Configuration

Configuring the generic TCP input module

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Generic TCP Input' from the dropdown menu, enter a friendly name and change the port number if you wish.

Add Manually ×

Select Module

Generic TCP Input ▼

Friendly Name

TCP Input

TCP Port

40825

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Device > Mic Pool
Add Manually

No.	Name	Status	IP	
1	Generic TCP Input(TCP Input)	Enabled		✎ 🗑

Showing 1 to 6 of 1 entries

6 ▼

Previous
1
Next

The following module options are available:

TCP Port: The TCP port used to connect with the module.

No. of Mics: The number of virtual mics available to control.

Module Commands

<u>Command</u>	<u>Command Packet</u>	<u>Description</u>
Turn on all mics	<MIC 0 ON>	Turn on all mics (the number of mics can be configured in the module settings)
Turn off all mics	<MIC 0 OFF>	Turn off all mics (the number of mics can be configured in the module settings)
Get status of all mics	<MIC 0 STATUS>	Get the status (ON/OFF) of all mics (the number of mics can be configured in the module settings)

Get status of individual mic	<MIC 1 STATUS>	Get the status (ON/OFF) of an individual mic, replace 1 with the mic number.
Turn on individual mic	<MIC 1 ON>	Turn on an individual mic, replace 1 with the mic number.
Turn off individual mic	<MIC 1 OFF>	Turn off an individual mic, replace 1 with the mic number.

Audio-Technica ATUC-50/ATUC-IR

Preparation

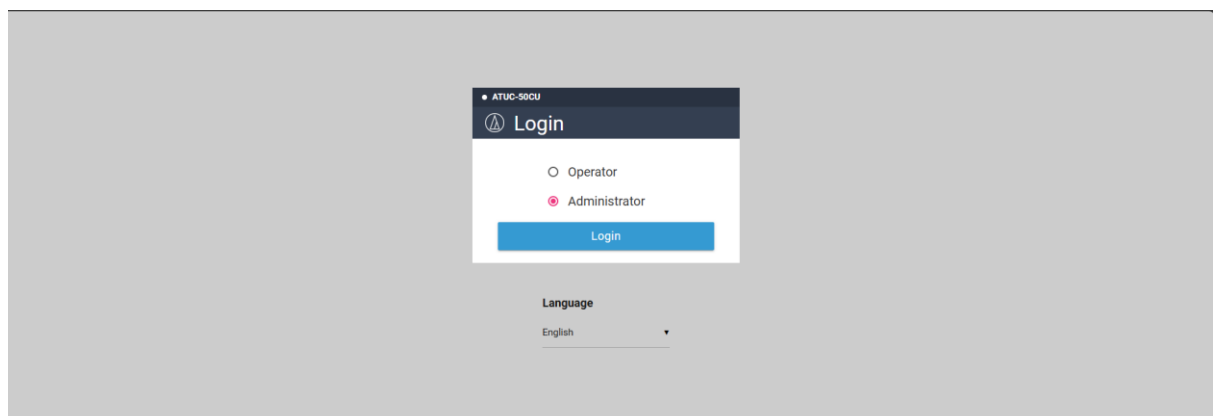
Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

Network Connections: Install the ATUC conference unit, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Firmware Updates: Ensure that the ATUC and all Datavideo equipment is updated to the latest version before configuration.

Discover the conference unit and access the configuration UI

1. The IP address of the conference unit can be obtained using its LCD display Set > Operator > System Info > IP Address.
2. Type the IP address into your web browser to access the web interface of the Shure MXCW receiver.



3. Select 'Administrator' and click 'Login'.

Meeting Controls

The ATUC-50 and ATUC-IR systems allows up to 10 active speakers.

There are several meeting controls that will affect the way the VoiceTRX100 system behaves.

To configure the meeting controls:

1. Click the 'Settings and Maintenance' button.
2. Select 'Install Settings' then 'Conference'
3. Set the conference mode and number of active speakers as required:
 - Free Talk

In this mode, attendees can talk when the (talk) button is pressed or when their DUs automatically detect their voices.
 - Request Talk

In this mode, attendees request to talk by pressing the (talk) button on the DU and will be permitted to talk by the steering committee.

The steering committee can also reject the talk request.

To operate the conference in this mode, connect the CU to a control device such as a computer.
 - Full Remote

In this mode, utterances are totally controlled via Web Remote. The DU (talk) button operations will be disabled.

To operate the conference in this mode, connect the CU to a control device such as a computer.
4. Set the 'Override mode' as required:
 - FIFO (First-In First-Out):

Cuts short the speaker who was least recently permitted to talk and permits the person who has just pressed the (talk) button to talk.
 - LIFO (Last-In First-Out):

Cuts short the speaker who was most recently permitted to talk and permits the person who has just pressed the (talk) button to talk.
 - No Override: (unelectable while in [Request Talk] Mode or [Full Remote] Mode)

The person who has just pressed the (talk) button will be in talk standby and will be permitted to talk when his/her turn comes.

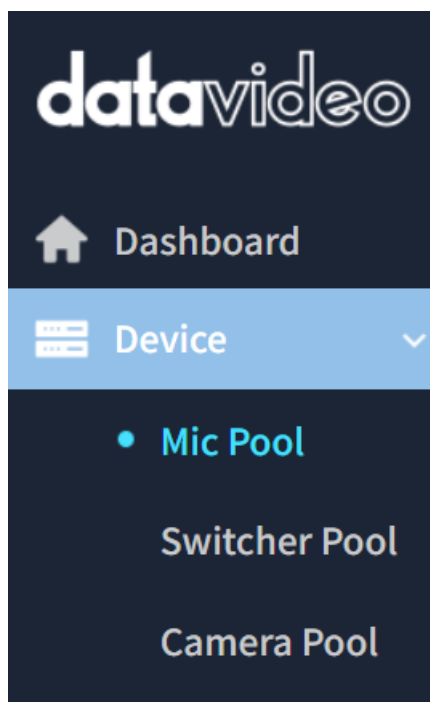
5. Set the 'Mic on trigger' as required:
 - Button toggle – Toggle muted and unmuted states
 - Push to talk – Press and hold to unmute
 - Voice – Automatically turn on the microphone when a voice is detected. When this mode is selected you must also set the 'Mic ON Hold Time' to adjust how long the microphone will stay on when no voice is detected.

Note: When using voice detection, you can adjust the 'Voice Detection Sensitivity' under the 'DU/CU' menu. The 'Auto Mic OFF' option can be used to achieve the same when using button toggle or push to talk modes.

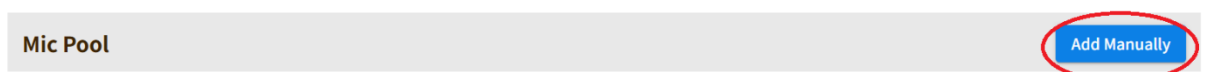
[VoiceTRX100 Configuration](#)

Connecting the ATUC-50/ATUC-IR conference unit

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Audio-Technica ATUC 50/IR Series' from the dropdown menu, enter a friendly name and the IP address of the ATUC-50/IR receiver.

×

Add Manually

Select Module

Friendly Name

Device IP

Audio-Technica ATUC 50 Series

Test ATUC

192.168.100.30

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Mic Pool					Add Manually	
No.	Name	Status	IP			
1	Generic TCP Input(TCP)	Disabled				
2	Audio-Technica ATUC 50 Series(ATUC)	Enabled	192.168.100.30			

Showing 1 to 6 of 2 entries

6

Previous
1
Next

The following module options are available:

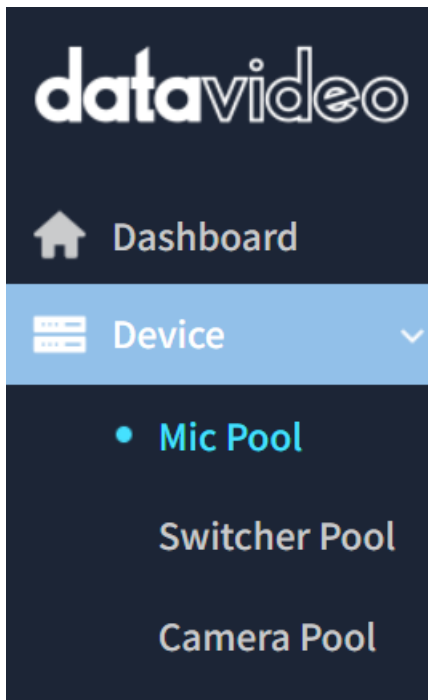
Device IP: IP address of the ATUC-50/IR receiver.

Port: Must match the port number set of the receiver, the default is 17300

Priority Mode: Defines what conditions must be met for the VoiceTRX-100 to treat a DU as a priority DU.

Zone Configuration

1. Click the 'Device Menu' and then 'Mic Pool'



2. Scroll down and select the microphone for which you want to configure zones from the dropdown menu.
3. By default, ATUC-50 DUs will be ordered using their topology number (order in the chain) and ATUC-IR DUs will be ordered by their device ID, however you can modify the zone assigned to each DU using the interface shown below.

Edit Mic

Select Unit

Audio-Technica ATUC 50 Series (ATUC) ▼

DU

ID/Serial	Name	Zone	Actions
17120993	"17120993"	<input type="text" value="1"/>	
17120991	"Test 3"	<input type="text" value="2"/>	
16430914	"Test 2"	<input type="text" value="3"/>	
16433287	"Test1"	<input type="text" value="4"/>	

Note: The DU list is updated every 10 seconds.

Behaviour

-If more than one microphone is active, the last one to go active will be prioritized unless a priority microphone is active, in that case the priority microphone will be prioritized.

-If more than one priority microphone is active, the last one to go active will be prioritized.

Bosch DICENTIS Wireless / CCS-1000D

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

Network Connections: Install the Bosch conference unit, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Firmware Updates: Ensure that the Bosch and all Datavideo equipment is updated to the latest version before configuration.

Discover the conference unit and access the configuration UI

1. The IP address of the Bosch conference unit can be obtained using an IP scanner or checking your network DHCP client list.
2. Type the IP address of the conference unit into your web browser to access the web interface.



CCS 1000 D Digital Discussion System 

Please login

Username: Language:

Password:

3. Enter 'admin' as the default username, leave the password field blank.
4. Click System Settings > Users and then create a new user for the VoiceTRX-100, ensure the user has rights to manage the meeting.

User settings

Users

Administrator Administrator

Aver Information

First name

Last name

Username

Change password

Add new user

First name

Last name

Username

Password

Confirm password

User rights:

Manage meeting

Configure

Prepare meeting

Prepare system

Modify users

Cancel

Save

- Click 'System Settings' > 'Network and general settings' > 'General settings' then deselect 'Automatically shut down the system when not used' to avoid entering standby mode.

Network and general settings

Network settings

Hostname ccs1000d

Wired

Fixed IP No

Change network settings

General settings

☐ Automatically shutdown the system when not used

Factory default

Meeting Controls

There are several meeting controls that will affect the way the VoiceTRX100 system behaves.

To configure the meeting controls:

- Click the 'Prepare discussion button.
- Set the discussion mode and number of active speakers as required:

- Open

Participants can issue a request to speak by pressing their microphone button. The request could be granted immediately, placed in a waiting list or ignored. The request to speak of one participant will not remove another participant from the speakers list; the participant must wait their turn. The chairperson's microphone and interruption microphone are not included in the number of speakers/open microphones, so that participants using these microphones do not have to wait to speak. The speakers list and waiting list can be viewed and managed in the web browser interface.

- Override

Participants can issue a request to speak by pressing their microphone button. The request could be granted immediately or ignored. The request to speak of one participant could remove another participant from the speakers list; the longest open microphone will be closed if needed to comply with the configured maximum number of open microphones. The chairperson's microphone and interruption microphone are not included in the number of speakers/open microphones, so that they cannot be 'overridden' by a participant. The speakers list can be viewed and managed in the web browser interface. The waiting list is not used in this mode.

- Voice

Participants can issue a request to speak by speaking into their microphone. The request will be granted if the participant speaks loud enough, otherwise the request is ignored. There are no speakers or waiting lists in the web browser interface.

Note: A microphone can be temporarily muted by pressing and holding down the microphone button.

- Push To Talk (PTT)

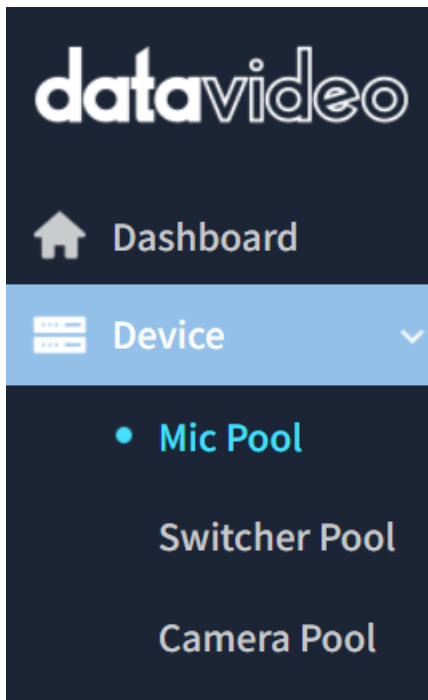
Participants can issue a request to speak by pressing their microphone button. The request could be granted immediately or ignored. If the request is granted, the participant has to keep the button pressed in to speak; the microphone is deactivated when the microphone button is released. The request to speak of one participant will not remove another participant from the speakers list; the participant must wait their turn. The chairperson's microphone and interruption microphone are not included in the number of speakers/open microphones, so that participants using these microphones do not have to wait to speak.

The speakers list can be (viewed and) managed in the web browser interface. The waiting list is not used in this mode

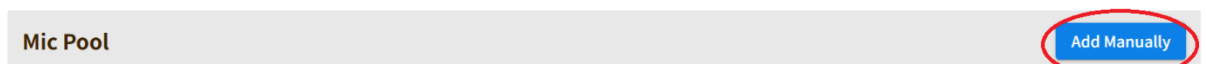
VoiceTRX100 Configuration

Connecting the Bosch DICENTIS Wireless / CCS-1000D conference unit

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Bosch DICENTIS Wireless / CCS-1000D' from the dropdown menu, enter a friendly name and the IP address of the Bosch receiver.

Add Manually ×

Select Module

Bosch DICIENTIS Wireless / CCS-1000D ▼

Friendly Name

DICIENTIS

Device IP

192.168.100.179

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Device > Mic Pool

Mic Pool Add Manually			
No.	Name	Status	IP
1	Bosch DICIENTIS Wireless / CCS-1000D(DICIENTIS)	Enabled	192.168.100.179

Showing 1 to 6 of 1 entries

6

Previous
1
Next

The following module options are available:

Device IP: IP address of the Bosch receiver.

Username: Must match the username set on the receiver.

Password: Must match the password set on the receiver.

Zone Configuration

Zones on the VoiceTRX-100 are automatically mapped to the ID number of each conference unit.

Behaviour

-If more than one microphone is active, the last one to go active will be prioritized unless a chairperson microphone is active, in that case the chairperson microphone will be prioritized.

-If more than one chairperson microphone is active, the last one to go active will be prioritized.

Last updated: 19-09-25

Ai Speech MC-10A

Preparation

Initial configuration: A router or managed switch with a DHCP server function will be required to set the Network settings.

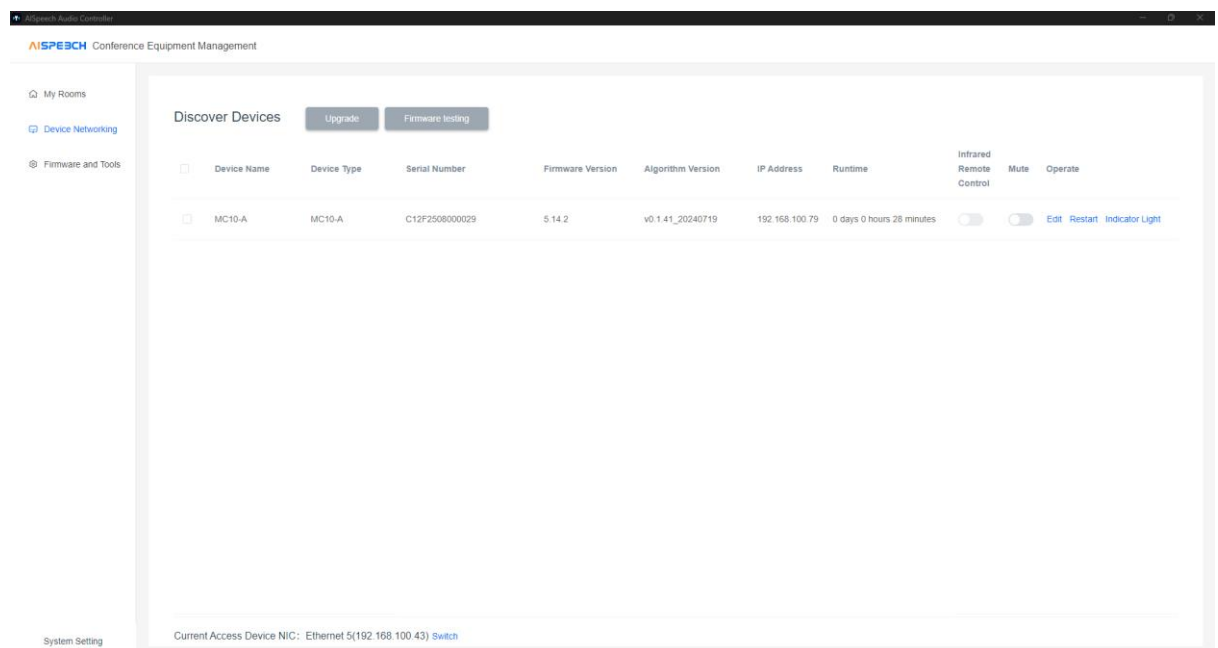
Network Connections: Install the Ai Speech MC-10A, VoiceTRX100 processor, PTZ cameras and video switcher in the same local area network.

Installation Location: Decide on the installation location for the Ai Speech MC-10A,. Choose a location that captures the participants' voices while considering the camera's field of view.

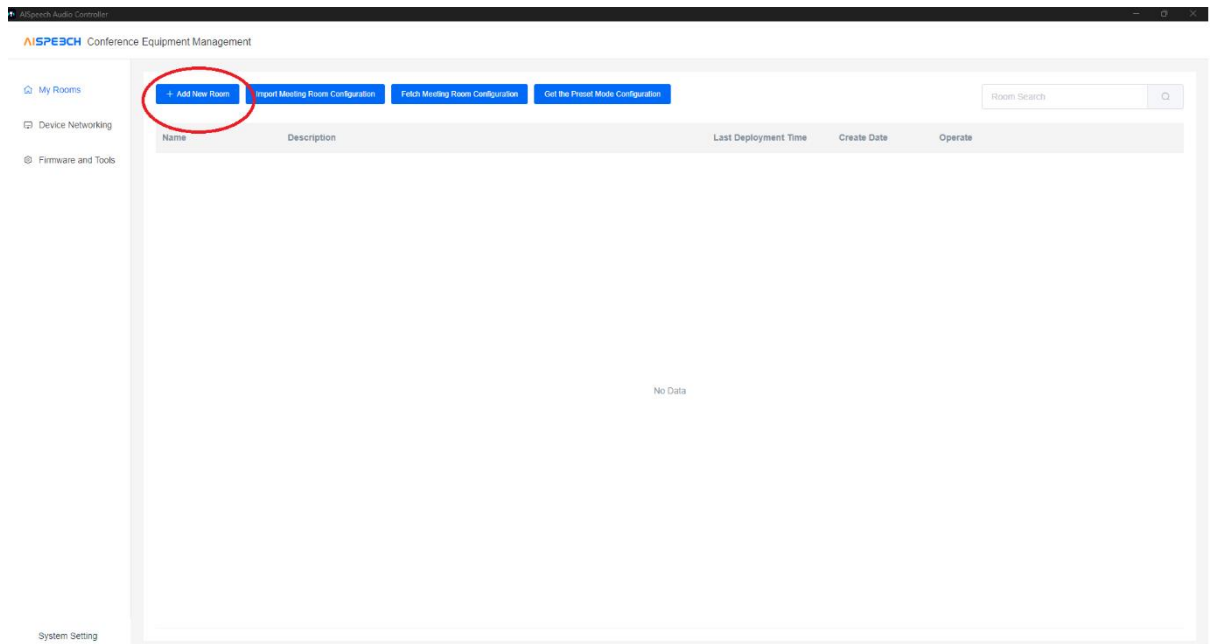
Firmware Updates: Ensure that the Ai Speech MC-10A, and all Datavideo equipment is updated to the latest version before configuration.

Discover the microphone and access the configuration UI

1. Download and install “Ai Speech Conference Equipment Management” software [AISpeech Audio Controller.v0.33.6.exe](#).
2. Open the software and select ‘Device Networking’ then select the ‘Switch’ link at the bottom of the page to select the correct network adapter. After a little time, you should see your microphone listed as below.



3. Now select ‘My Rooms’ and then click ‘Add New Room’.



4. Enter a name and description, then click the 'Save' button.

Create Rooms

* Name

Test

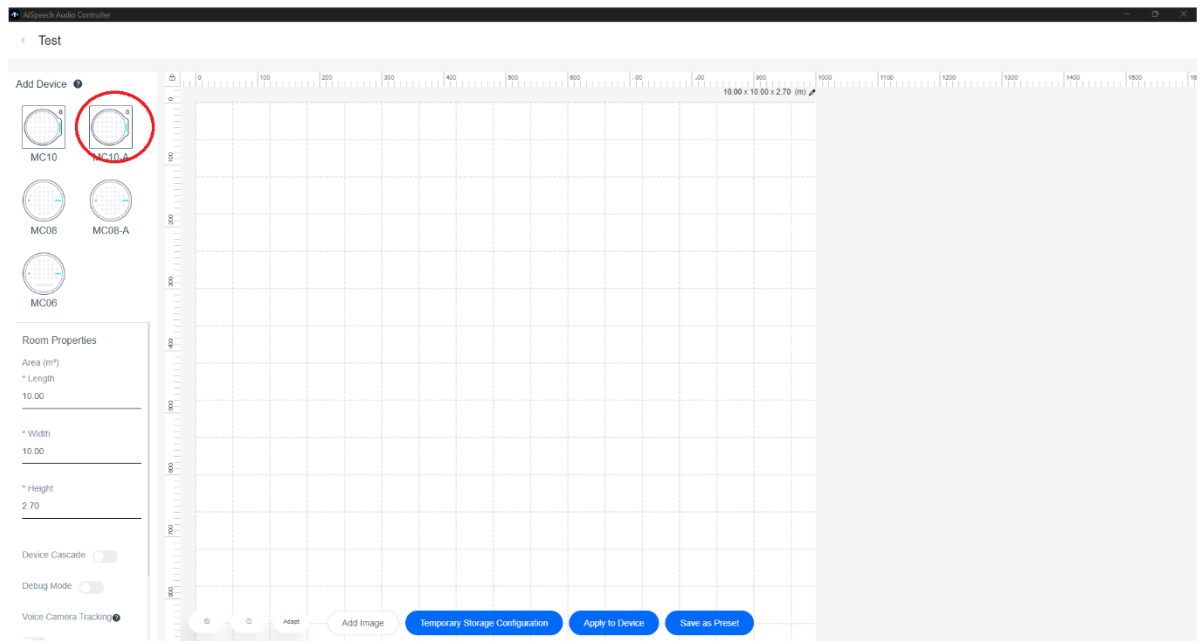
* Description

Test room

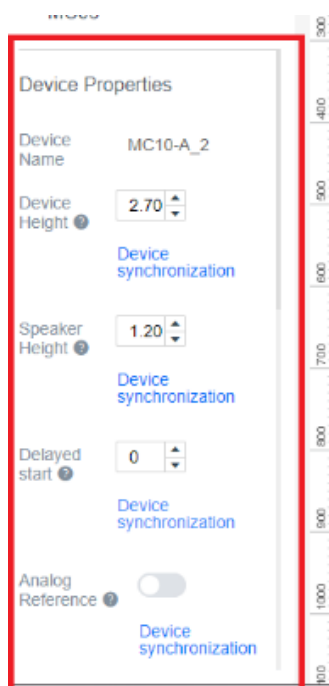
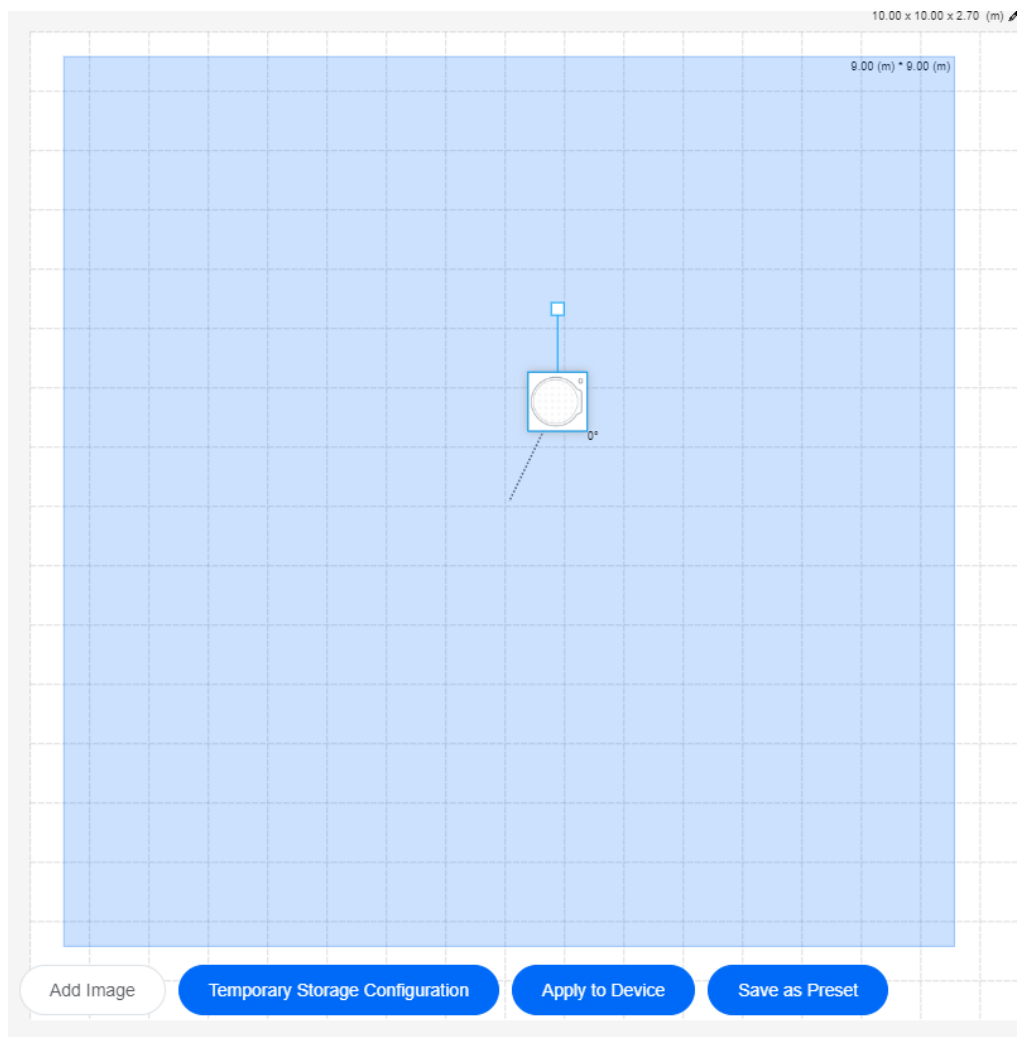
Cancel

Save

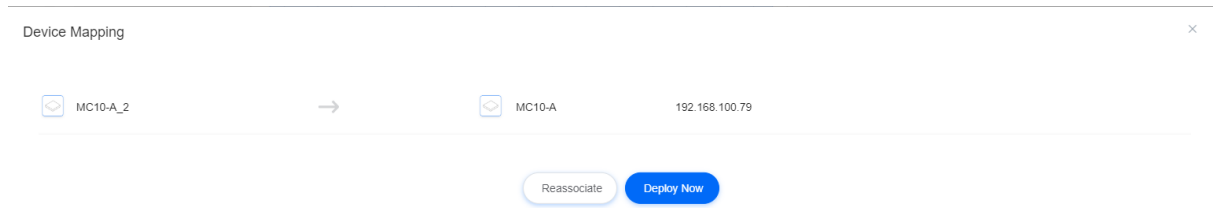
5. Click the 'MC-10A' device and drag it into the canvas.



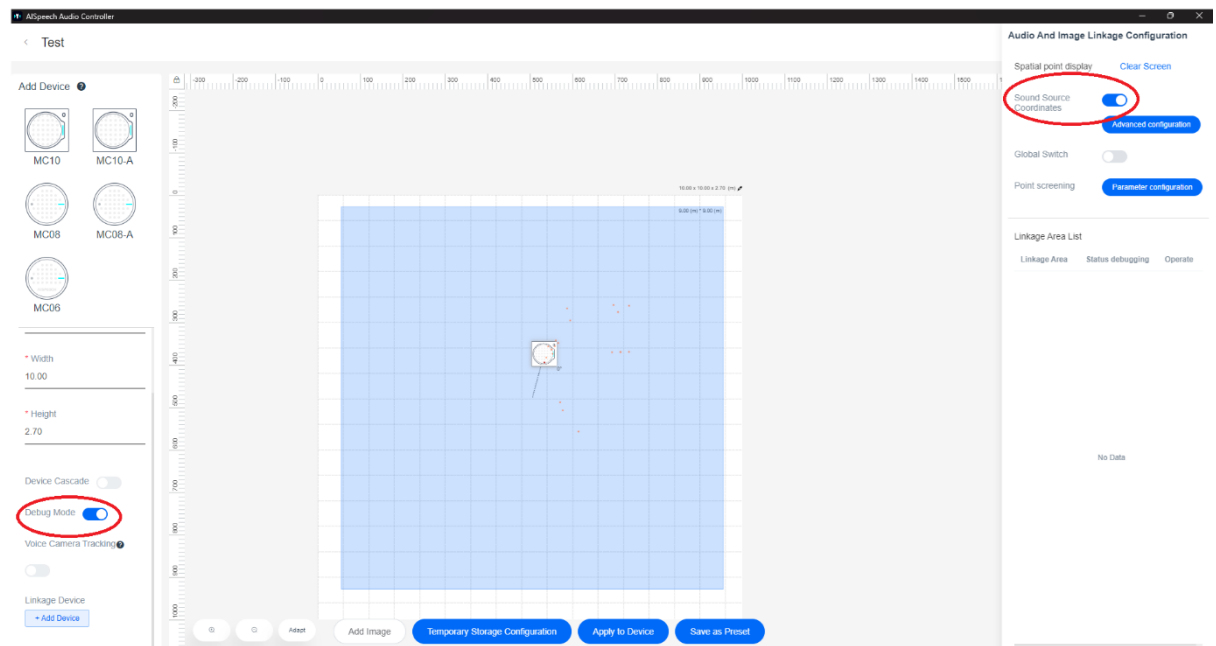
6. The default coverage area is 9m x 9m, adjust this and the microphones zero position, location and height as required. Please consult the microphone manufacturers documentation for more information.



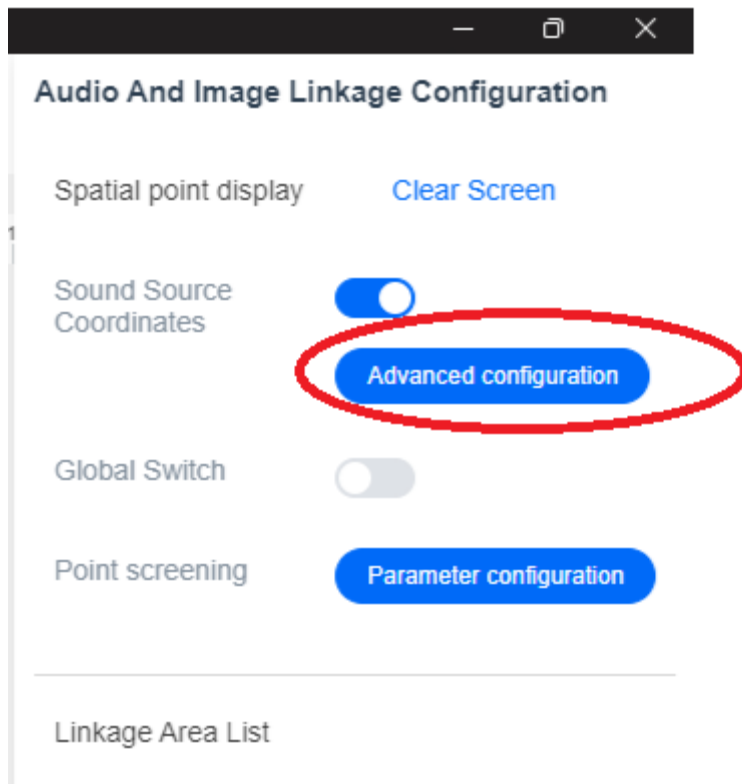
- Click 'Apply to Device', select your microphone and then click 'Deploy Now' to synchronise settings and connect.



- Enable 'Debug Mode' and then 'Sound Source Coordinates'



- Click the 'Advanced Configuration' button.



Audio And Image Linkage Configuration

Spatial point display [Clear Screen](#)

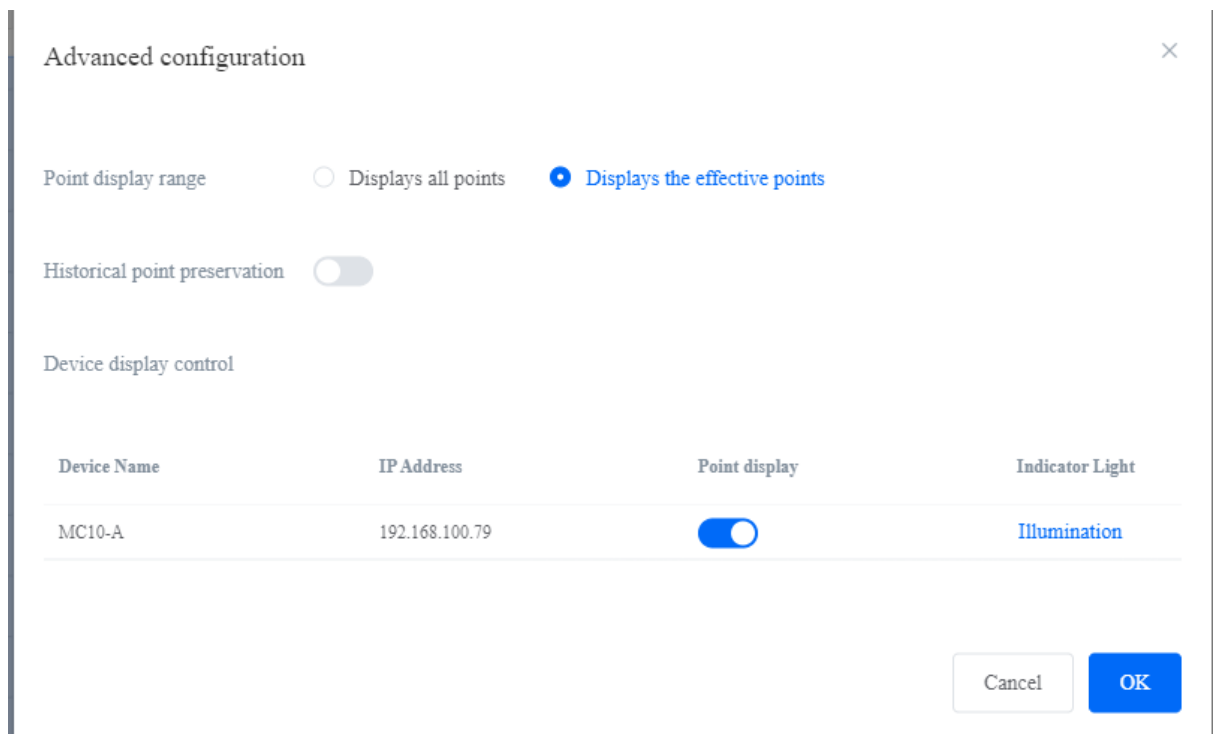
Sound Source Coordinates ☒ [Advanced configuration](#)

Global Switch ☐

Point screening [Parameter configuration](#)

Linkage Area List

10. Configure as below and click the 'OK button.



Advanced configuration

Point display range ☐ Displays all points ☒ Displays the effective points

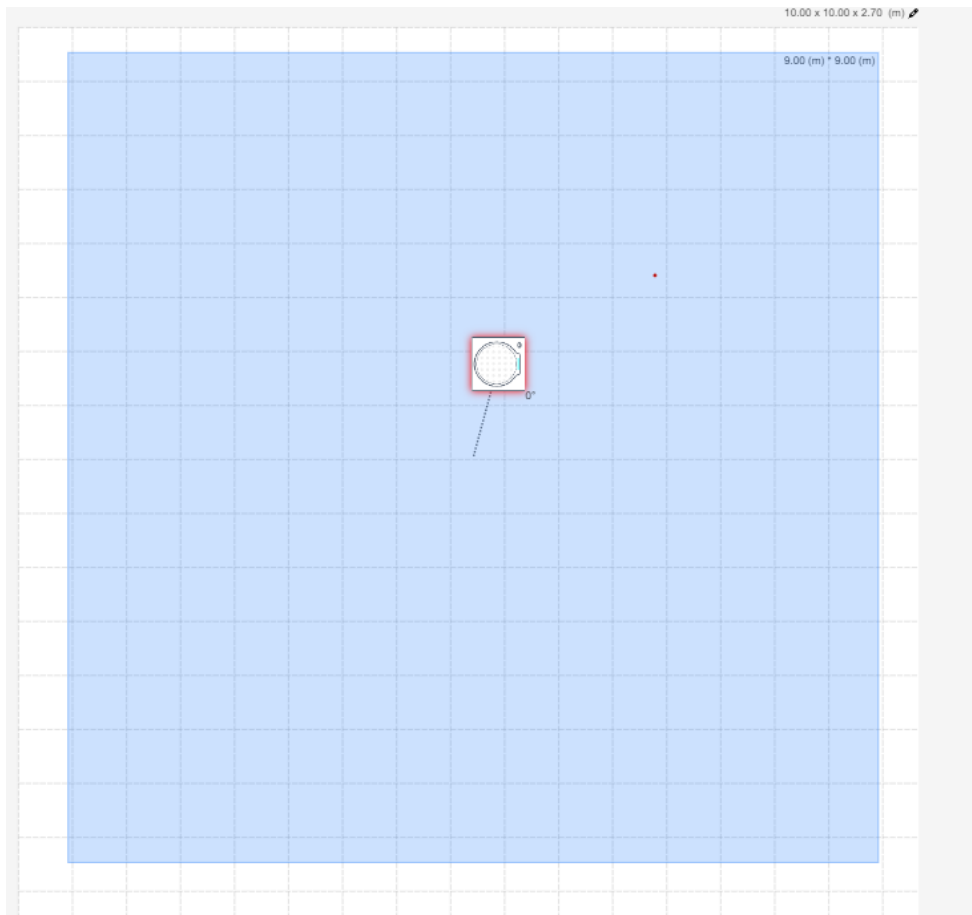
Historical point preservation ☐

Device display control

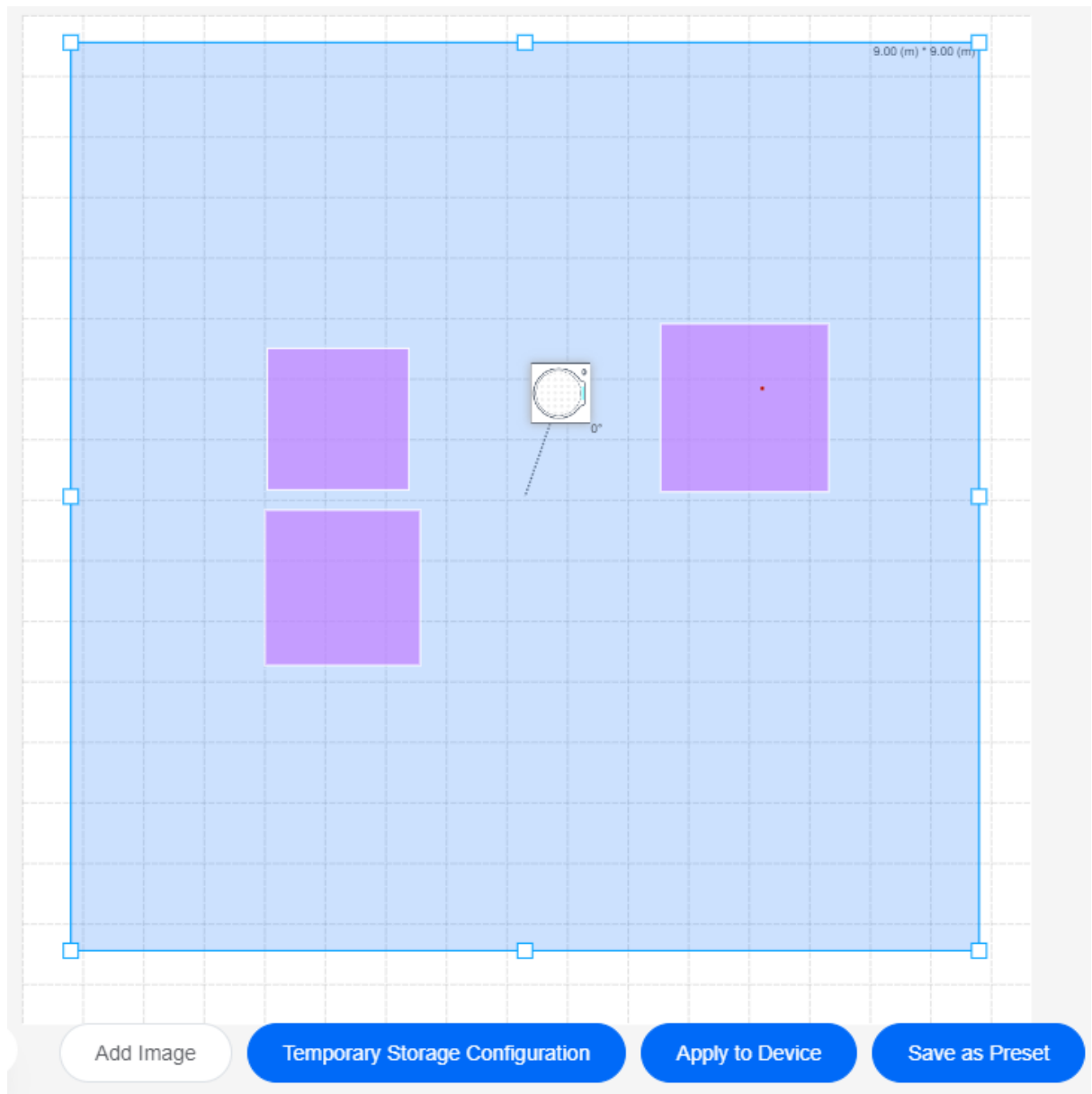
Device Name	IP Address	Point display	Indicator Light
MC10-A	192.168.100.79	<input checked="" type="checkbox"/>	Illumination

[Cancel](#) [OK](#)

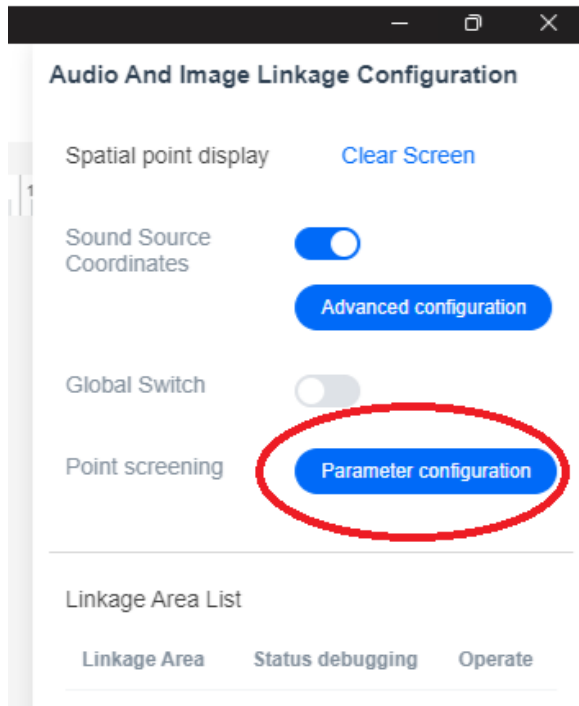
11. A red dot will be shown at the current speakers co-ordinates.



12. Right click the coverage area and select 'Add linkage area' to add linkage areas as required.



13. Click the 'Parameter Configuration' button.



14. These settings effect how the reported speaker positions trigger the linkage areas:

Energy Range: The dB level required to trigger a linkage area.

Sampling Interval: The interval that audio samples are taken.

Windowing Time: Only used in cascade mode, please consult the microphone manufactures documentation for more information.

Statistical period: The period of time that data will be collected before the decision to trigger a linkage area is made.

Points: The minimum number of points that must be reported before a linkage area can be triggered.

15. Click 'Apply to Device' to push the settings to the microphone again.

Set point filtering parameters

×

[↻ Reset](#)

Energy Range

-55

▲
▼

Sampling Interval

20

▲
▼

Windowing time

40

▲
▼

Statistical period

500

▲
▼

Number of points

4

▲
▼

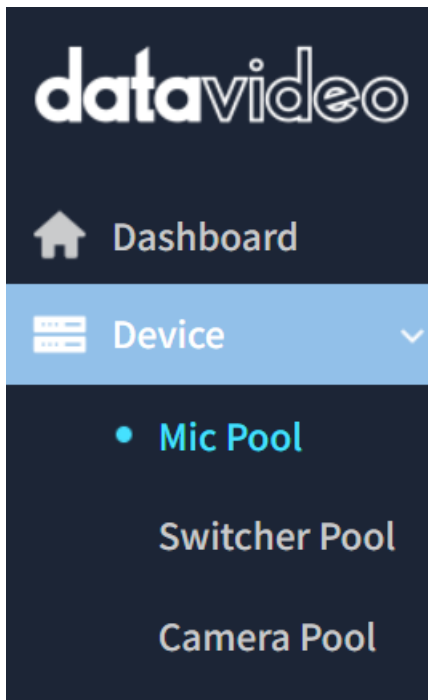
Cancel

OK

VoiceTRX100 Configuration

Connecting the Ai Speech MC-10A

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Ai Speech MC-10A' from the dropdown menu, enter a friendly name and the IP address of the Ai Speech MC-10A microphone.

The image shows a modal window titled 'Add Manually' with a close button (X) in the top right corner. The form contains three fields: 'Select Module' with a dropdown menu showing 'Ai Speech MC-10A', 'Friendly Name' with a text input field containing 'MC-10', and 'Device IP' with a text input field containing '192.168.100.79'. At the bottom right of the form is a blue 'Add' button.

4. Click the 'Add' button.
5. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Device > Mic Pool

Mic Pool				Add Manually
No.	Name	Status	IP	
1	Ai Speech MC-10A(MC-10)	Enabled	192.168.100.79	 

Showing 1 to 6 of 1 entries

Previous 1 Next

The following module options are available:

Device IP: IP address of the Ai Speech MC-10A microphone.

Port: 997 by default.

Zone Configuration

Zones on the VoiceTRX-100 are automatically mapped to linkage areas on the Ai Speech MC-10A microphone, for example linkage area 1 will be mapped to zone 1.

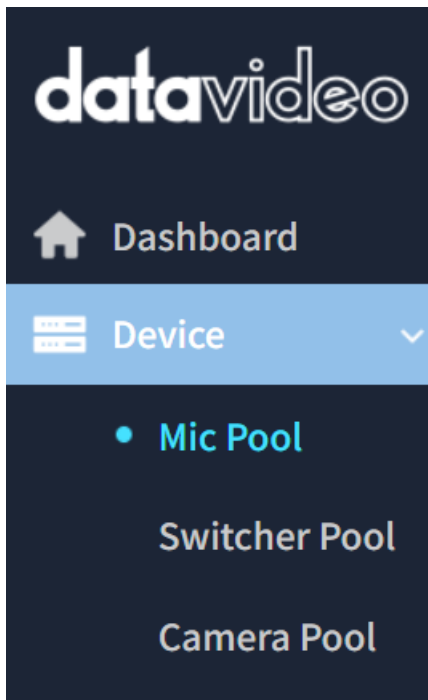
Generic USB Input

The generic USB input module works with USB mixers capable of outputting multi-track audio over USB and a wide variety of USB sound cards with multi-channel output.

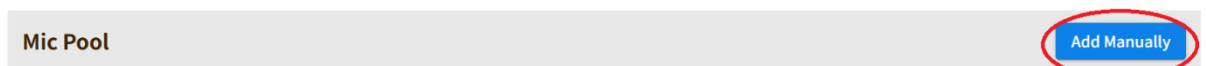
VoiceTRX100 Configuration

Configuring the generic USB input module

1. Click the 'Device Menu' and then 'Mic Pool'



2. Click the 'Add Manually' button under the 'Mic Pool' heading.



3. Select 'Generic USB Input' from the dropdown menu, enter a friendly name.

Add Manually ×

Select Module

Friendly Name

Add

4. Click the 'Add' button.
5. You will see the microphone listed as below.

Device > Mic Pool

Mic Pool
Add Manually

No.	Name	Status	IP
1	Generic USB Input(Zoom LiveTrak)	Enabled	

Showing 1 to 6 of 1 entries
6
Previous
1
Next

Edit Mic

Select Unit
Generic USB Input (Zoom LiveTrak)

Audio Device

Zone trigger dB
-45

Channels
2

Excluded Audio channels
(comma separated)

Save

6. Select your USB audio device from the 'Audio Device' dropdown menu.
7. Enter the number of channels you want to be available and click the 'Save' button.
8. You can enable and disable channels as required. For example, USB audio mixers typically include the stereo mix as part of the multi-track output, these channels should be disabled.
9. Set the Zone trigger dB as required, you can monitor the level for each channel individually. The meter will turn red when the trigger level is reached

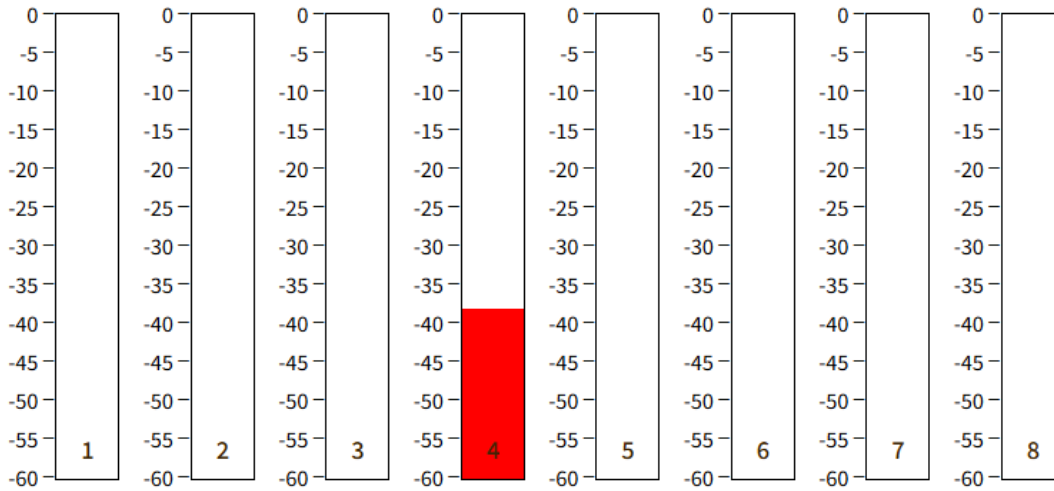
Select Unit Generic USB Input (Zoom LiveTrak) ▾

Audio Device ZOOM Corporation L-8 (12ch, 4410... ▾ ↻

Zone trigger dB -45

Channels 8

Excluded Audio channels
(comma separated)



Zone Configuration

Zones on the VoiceTRX-100 are automatically mapped to the audio channels on the Generic USB Input module, for example channel 1 will be mapped to zone 1.

Switcher Modules

Datavideo iCast-10NDI

Preparation

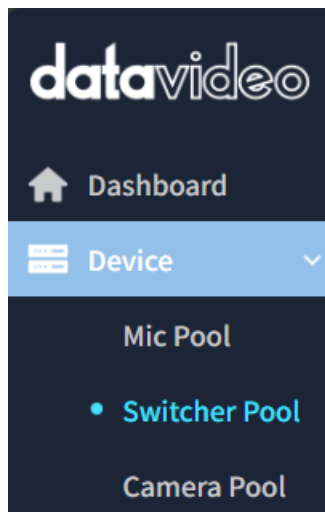
Network Connections: Ensure the VoiceTRX100 processor and iCast-10NDI are in the same local area network.

Firmware Updates: Ensure that Datavideo equipment is updated to the latest version before configuration.

VoiceTRX100 Configuration

Connecting a Datavideo iCast-10NDI

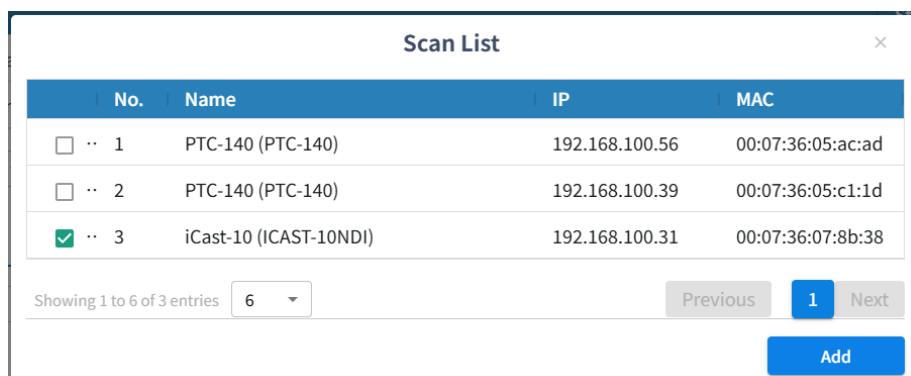
1. Click the 'Device Menu' and then Switcher Pool'



2. Click the 'DVIP Scan' button under the 'Switcher Pool' heading.



3. Select the iCast-10NDI from the list and click the 'Add' button.



4. You will see the switcher listed as below, click the 'Edit' icon to access the module settings.

Switcher Pool				Add Manually	
No.	Name	Status	IP		
1	iCast-10 Switcher(icast)	-	192.168.100.27		

Showing 1 to 6 of 1 entries 6 Previous 1 Next

- Enter the username and password of the iCast-10 in the module settings and click the 'Save' button. The default values are User: admin Password: 000000.

Device > Switcher Pool > iCast-10 Switcher (icast) > Edit Device

General Fields ON

Device IP

Username

Password

Switch Delay(ms)

Save Delete

The following module options are available:

Device IP: IP address of the iCast-10NDI

Username: Username of the iCast-10 NDI

Password: Password of the iCast-10NDI

Optimising the timeout period







By default, the icast-10 requires that the VoiceTRX-100 re-authenticate every 20 minutes, this can cause the system to perform slowly. To change this setting:

- Click the button shows below to access the iCast-10 WebUI.

Switcher Pool

DVIP Scan

Add Manually

No.	Name	Status	IP			
1	iCast-10 Switcher(iCast)	Enabled	192.168.100.31			
2	KMU-100 4K Multicamera Processor(KMU)	Enabled				

Showing 1 to 6 of 2 entries

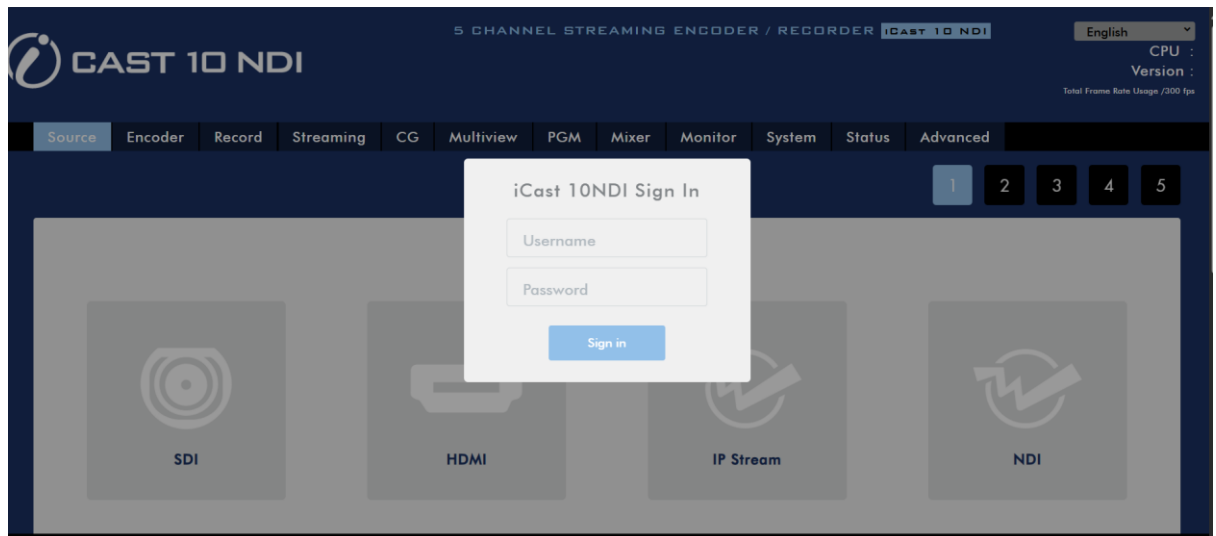
6

Previous

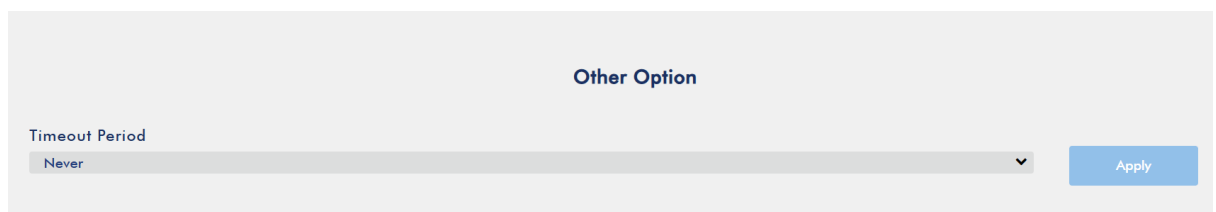
1

Next

- Login, the default values are User: admin Password: 000000.



3. Click the 'System' tab, scroll down and change the 'Timeout Period' to 'Never'.



4. Click 'Apply', you will be automatically logged out once the setting is applied.

Datavideo KMU-100+

Preparation

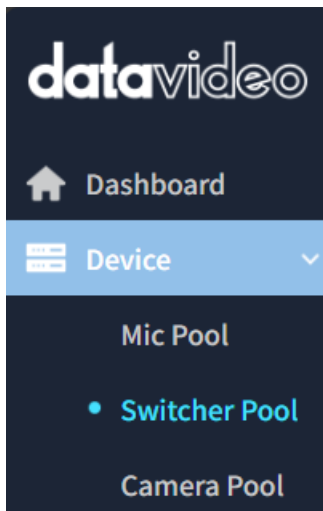
Physical Connections: Connect the VoiceTRX100 processor to the KMU-100 with the supplied RJ45 to D9 RS422 cable.

Firmware Updates: the KMU-100 has the latest KMU100+ firmware installed before configuration. The KMU-100+ firmware can be downloaded here [KMU-100 4K Multicamera Processor | Datavideo | Professional end-to-end solutions provider for your live video production.](#)

VoiceTRX100 Configuration

Connecting a Datavideo KMU-100+

1. Click the 'Device Menu' and then Switcher Pool'



2. Select 'KMU-100 4K Multicamera Processor' from the dropdown menu, enter a friendly name and select the RS422 port.

Add Manually [Close]

Select Module KMU-100 4K Multicamera Processor

Friendly Name KMU-100

Select Serial Port Onboard RS422 Port 1

Add

3. Click the 'Add' button.
4. You will see the microphone listed as below, click the 'Edit' icon to access the module settings.

Switcher Pool					DVIP Scan		Add Manually	
No.	Name	Status	IP					
1	KMU-100 4K Multicamera Processor(KMU)	Enabled						
2	iCast-10 Switcher(iCast-10)	Enabled	192.168.100.31					

Showing 1 to 6 of 2 entries 6

Previous 1 Next

The following module options are available:

Select Serial Port: Select the RS422 serial port to which the KMU-100 is connected.

Datavideo SE-2600/3200/4000 series

Preparation

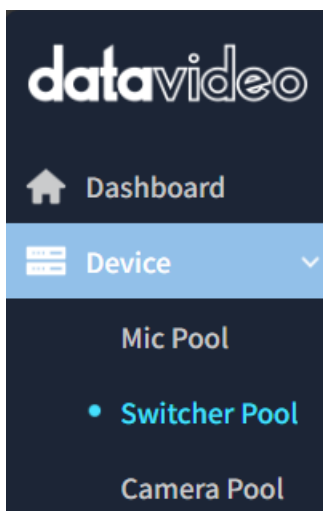
Network Connections: Ensure the VoiceTRX100 processor and SE series switcher are in the same local area network.

Firmware Updates: Ensure that Datavideo equipment is updated to the latest version before configuration.

VoiceTRX100 Configuration

Connecting a Datavideo SE series switcher

1. Click the 'Device Menu' and then Switcher Pool'



2. Click the 'DVIP Scan' button under the 'Switcher Pool' heading.



3. Select the SE series switcher from the list and click the 'Add' button.

Scan List				
	No.	Name	IP	MAC
<input checked="" type="checkbox"/>	1	SE-2600 (SE-2600_53)	192.168.100.53	00:07:36:04:3...
Showing 1 to 6 of 1 entries				
<div> <div>6</div> <div>Previous</div> <div>1</div> <div>Next</div> </div>				
<div>Add</div>				

4. You will see the switcher listed as below, click the 'Edit' icon to access the module settings.

Switcher Pool				
No.	Name	Status	IP	
1	SE-2600/3200/4000 Series(2600)	Enabled	192.168.100.30	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Showing 1 to 6 of 1 entries				
<div> <div>6</div> <div>Previous</div> <div>1</div> <div>Next</div> </div>				

5. Enter the username and password of the iCast-10 in the module settings and click the 'Save' button. The default values are User: admin Password: 000000.

The following module options are available:

Device IP: IP address of the SE series switcher

Internal NDI SwitchHub

Please Note: The NDI SwitchHub function must be licensed on your VoiceTRX-100 device, you can check if the NDI license is installed via the 'Licenses' tab of the WebUI.

datavideo

VOICETRAX100 VOICE TRACKING CONTROL INTERFACE

English Logout

Dashboard

Device

Mic Pool

Switcher Pool

Camera Pool

Action

Network

System

Profile

Licenses

Serial Number

100000006c6b9e23

License Key

Installed Licenses

NDI

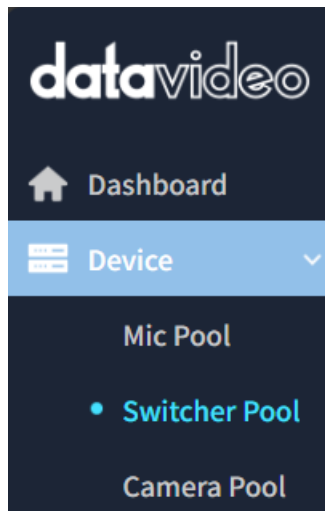
Firmware Version: 1.0.01

VoiceTRX100 Configuration

Last updated: 19-09-25

NDI router setup

1. Click the 'Device Menu' and then Switcher Pool'



2. Click the 'Add manually' button under the 'Switcher Pool' heading.





3. Select 'NDI Router' from the dropdown menu, enter a friendly name and select the NDI output name.

Add Manually ×

Select Module	<input type="text" value="NDI SwitchHub"/>
Friendly Name	<input type="text" value="TEST"/>
NDI Output Name	<input type="text" value="TRX OUPUT"/>

Add

4. You will see the NDI SwitchHub listed as below, click the 'Edit' icon to access the module settings.

Switcher Pool				DVIP Scan	Add Manually
No.	Name	Status	IP		
1	NDI SwitchHub(TEST)	Enabled			

Showing 1 to 6 of 1 entries 6 Previous 1 Next

The following module options are available:

NDI Output Name: The switched video output of the VoiceTRX-100 will appear on your network with this friendly name.

Camera Modules

Datavideo PTC Series

Preparation

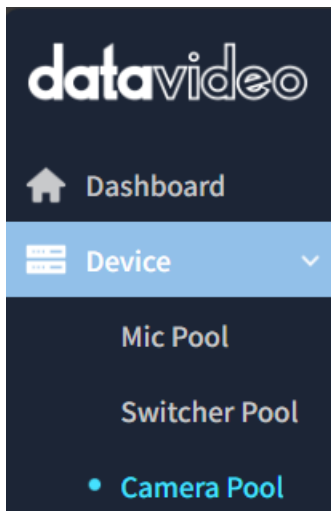
Network Connections: Ensure the VoiceTRX100 processor and PTZ cameras are in the same local area network.

Firmware Updates: Ensure that Datavideo equipment is updated to the latest version before configuration.

VoiceTRX100 Configuration

Connecting a Datavideo PTC series camera

5. Click the 'Device Menu' and then 'Camera Pool'



- Click the 'DVIP Scan' button under the 'Camera Pool' heading.



- Select the camera from the list and click the 'Add' button.
- You will see the camera listed as below, click the 'Edit' icon to access the module settings.

Camera Pool				Add Manully		
No.	Name	Status	IP			
1	DVIP PTZ Camera(PTC-140-2)	-	192.168.100.34			
2	DVIP PTZ Camera(PTC-140)	-	192.168.100.49			

Showing 1 to 6 of 2 entries 6 Previous 1 Next

The following module options are available:

Device IP: IP address of the PTC series camera.

RTSP Stream path: Required for the live video preview to be displayed on the VoiceTRX-100 processor, select your camera series.

Actions

Simple Mode

Simple mode is designed to facilitate fast and easy setup for common applications. When simple mode is used, Advanced Mode logic is also generated, this means that you could use Simple Mode to create a base configuration and switch to Advanced Mode to customise it.

For detailed instructions on how to use simple mode, please see the online training course on the Datavideo Academy www.datavideoacademy.com.

Advanced Mode

Advanced Mode allows for the creation of custom logic using IF, AND, OR and ELSE IF statements. Logic is run every time a microphone zone changes.

Please Note: Advanced mode is primarily intended for certified Datavideo personnel, the creation of advanced logic is outside the scope of Datavideo standard support obligations.

Network

DHCP: Turn DHCP client mode ON and OFF, this must be turned off in order to set a static IP address.

IP Address: Displays the current IP address in both DHCP ON and DHCP OFF modes. When DHCP is OFF this field is editable, you can enter the static IP address of your choice.

Network Mask: In CIDR format, for example a mask of 255.255.255.0 should be entered as 24 (24 bit mask).

Gateway: The IP address of your internet gateway, usually your router.

Primary DNS: Primary DNS (Domain Name) server.

Secondary DNS: Secondary DNS (Domain Name) server.

Mac Address: Displays the units unique MAC (hardware address).

VOICETRAX 100

VOICE TRACKING CONTROL INTERFACE

Network

DHCP

OFF

IP Address

192.168.100.254

Network Mask

24

Gateway

192.168.100.1

Primary DNS

8.8.8.8

Secondary DNS

8.8.4.4

MAC Address

00:07:36:0c:a4:00

Apply

Please Note: The VoiceTRX-100 must have a valid gateway and DNS servers to check for firmware updates.

System

Device Name: Customise the devices hostname, this is used or DVIP discovery.

Version: Displays the devices current firmware version. If the device has access to the interne, it will check for update every 10 minutes and display a message should an update be available.

Please Note: The VoiceTRX-100 must have a valid gateway and DNS servers to check for firmware updates.

HDMI Output 1 & HDMI Output 2

Resolution: Set the HDMI ports output resolution and framerate

Content: Currently only the option to display the configuration UI is available.

Trigger Period (ms): The amount of time in milliseconds that a microphone or microphone position must be active before a zone change is triggered. A camera preset recall will only commence on zone change.

Switch delay (ms): The amount of time in milliseconds between a camera being in position and the connected switcher switching to that cameras input. A small switch delay can be useful to allow the cameras autofocus to settle. A larger switch delay can be used with the 'Home First' switch mode, this allows a lower Trigger Period to be used to avoid delaying camera movements while still avoid excessive switching or false triggers. Switch delay is currently supported by the iCast-10NDI switcher only.

Home Period (ms): The amount of time in milliseconds before the 'Home' zone is triggered after no other zones are active (the room is quiet).

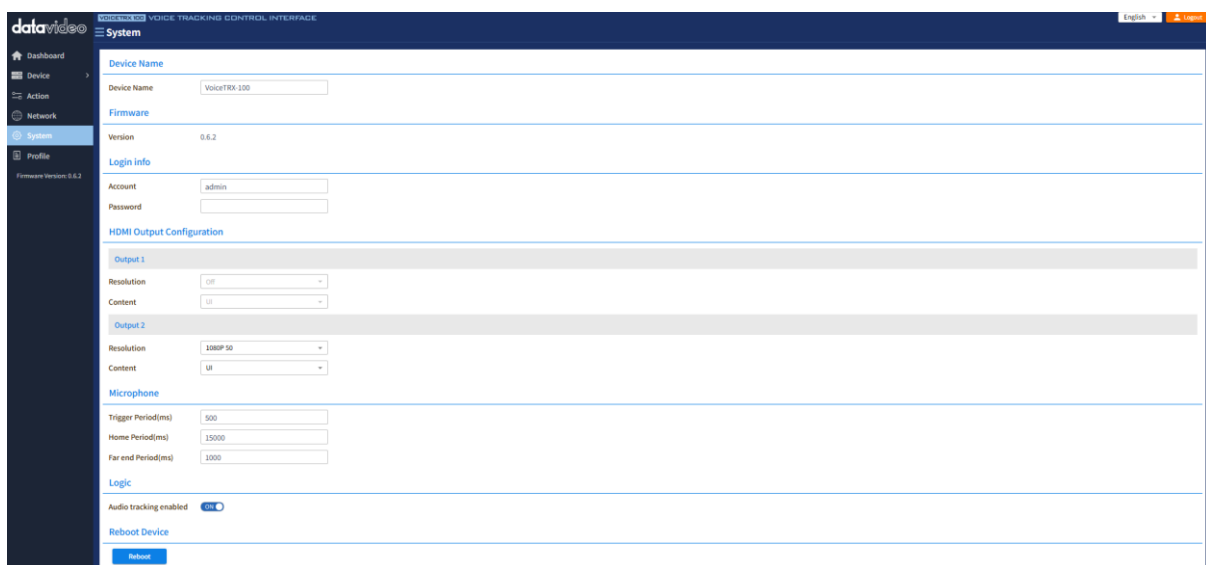
Microphone Tie: Select the primary microphone when more than one microphone module is in use.

Far end period (ms): The amount of time in milliseconds before the 'Home' zone is triggered when the far end is active. Available for microphones that support far end detection only.

Far end trigger (dB): Please see the 'Far end detection' section of this guide for more information.

Audio tracking enabled: Enable or disable 'Actions' being executed on zone change.

Preset Abort: When enabled, connected Datavideo PTZ cameras will be allowed to abort (cancel) a preset recall request if a zone change occurs during preset recall, this allows the system to be more responsive to zones change. This option is enabled by default and should only be disabled when advised by support personnel for troubleshooting purposes.



The screenshot displays the 'System' configuration page of the Datavideo Voice Tracking Control Interface. The interface has a dark blue sidebar on the left with navigation links: Dashboard, Device, Action, Network, System (selected), and Profile. The main content area is white with a blue header bar. The 'System' section includes the following fields and sections:

- Device Name:** A text input field containing 'VoiceTRX 100'.
- Firmware:** A section showing 'Version' as '0.6.2'.
- Login info:** A section with 'Account' (admin) and 'Password' (empty) input fields.
- HDMI Output Configuration:** A section with two output configurations:
 - Output 1:** Resolution set to 'Off' and Content set to 'UI'.
 - Output 2:** Resolution set to '1080P 50' and Content set to 'UI'.
- Microphone:** A section with three input fields: 'Trigger Period(ms)' set to '500', 'Home Period(ms)' set to '15000', and 'Far end Period(ms)' set to '1000'.
- Logic:** A section with a toggle switch for 'Audio tracking enabled' which is currently turned on.
- Reboot Device:** A blue button at the bottom of the configuration section.

Microphone Tie

Microphone tie must be enabled if you are using more than once microphone or receiver to control the same switcher and cameras. Microphone tie mode avoids multiple microphones attempting to execute actions at the same time.

If more than one microphone is active at the same time, the 'Home' zone on the primary microphone will be triggered. 'Home' zone actions should only be configured for the primary microphone.

Configuration

1. The primary microphone can be selected from the 'System' page
2. 'Home' zone actions only need to be configured for primary microphone.
3. Adjust the 'Home Period' 'Trigger Period' and 'Switch delay' as required, please see the best practices section below.

Behaviour and best Practices

- When using ceiling microphones, the zones should be setup to avoid overlap wherever possible. Overlap is when there is a position that triggers zones on more than one microphone. Exclusion zones or restricted coverage areas can be used to prevent overlap (microphone dependant).
- When microphone tie mode is enabled, a microphone is considered active if it's not on the 'Home' zone.
- If more than one microphone is active, the 'Home' zone actions are triggered on the primary microphone only.
- When mic tie is enabled, the 'Home' zone actions of the primary microphone are only triggered when all microphones are inactive.
- If any microphone reports it has multiple active (-3) the 'Home' zone actions are triggered on the primary microphone.
- If any microphone reports it has far end active (-2) the 'Home' zone actions are triggered on the primary microphone.
- If you are using a microphone with build in far end detection capability, you must have the far end reference routed to the primary microphone.
- A dedicated 'Home' zone (wide shot) camera is recommended when using microphone tie mode.

Far End Detection

Far end detection allows the VoiceTRX100 to detect when the far end of a conference call is active and trigger actions accordingly, a typical use case would be to force the room to the 'Home' zone (wide shot) when the far end has been active for a certain period.

The VoiceTRX100 supports far end detection via supported microphones or universally using a support DANTE input adapter.

Far end detection via the microphones AEC or reference input should only be used where a DANTE input adapter cannot be used, the DANTE input adapter is the preferred method.

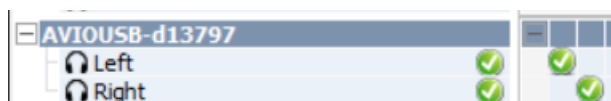
Supported DANTE adapters

The Dante AVIO adapter, model number ADN0005 is supported by VoiceTRX100.



Configuration

1. Connect the Dante AVIO adapter to one of the two USB ports on the rear of the VoiceTRX-100.
2. Connect the Ethernet connection on the Dante AVIO adapter to the same network as the far end audio source, usually your Dante DSP.
3. Route the audio from the far end to the Dante AVIO input using your DSP and the Dante controller application. If you are routing two channels of audio, use both the left and right channels of the AVIO adapter.



4. Navigate to the VoiceTRX100 'System' tab and set the 'Far end Period' and far end Trigger (dB) values as required.

For the far end to be marked as active, and subsequently all microphones to be forced to the 'Home' zone, the audio level must be above the 'Far end Trigger' threshold in dB for the 'Far end Period'.

Microphone

Trigger Period(ms)	<input type="text" value="500"/>
Home Period(ms)	<input type="text" value="5000"/>
Far end Period(ms)	<input type="text" value="10000"/>
Far end Trigger(dB)	<input type="text" value="-35"/>
Switch Delay(ms)	<input type="text" value="1000"/>

You can check the current dB value from the status on the 'Dashboard' tab.

Mic Status

Audio Far End (USB)

farend: false avg_dB: -20

Behaviour

For the far end to be marked as active, and subsequently all microphones to be forced to the 'Home' zone, the audio level must be above the 'Far end Trigger' threshold in dB for the 'Far end Period'.

Once the far end is active, it will stay active for the 'Far end Period' at minimum. We sample the audio input from the Dante AVIO adapter every 500ms, if it's over the 'Far end Trigger' threshold we increment to the period, if its less then we decrement.

While the far end is active, local zone changes are blocked, VoiceTRX100 will stay on the 'Home' zone it cannot be interrupted.

Profile

Profiles contain all modules, module settings and actions. You can save and load profiles using the buttons below or the DVIP Control Protocol.

VOICE TRX100 VOICE TRACKING CONTROL INTERFACE				English	Logout
Profile					
No.	Profile Name	Edit	Load	Save	
1	Office				
2	Preset 2				
3	Rob				
4	Preset 4				
5	Preset 5				
6	Preset 6				
7	Preset 7				
8	Preset 8				
9	Preset 9				
10	Preset 10				

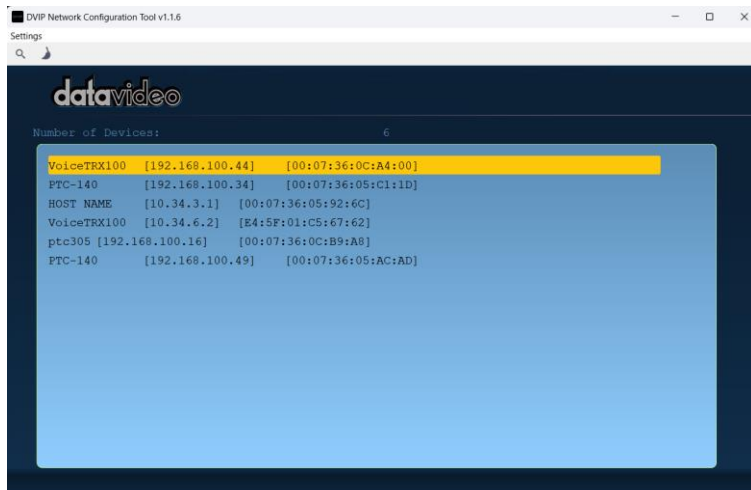
DVIP Control Protocol

The VoiceTRX-100 supports control from third party control systems over using our IP control protocol (DVIP).

Discovery and IP configuration

The DVIP Network Configuration Tool can be downloaded from the link below, this tool allows you to discover and configure the network settings of all DVIP devices.

<https://www.datavideo.com/global/product/DVIP>



DVIP command structure

The DVIP Ethernet Control Guide can be downloaded from the link below.

<https://www.datavideo.com/global/product/DVIP>

The VoiceTRX-100 accepts control command packets over TCP port 5002. Please pay particular attention to the packet structure, the first two bytes define the packet length.

For example, to turn audio tracking on the complete packet would be as below.

0x0, 0x8, 0x81, 0x0a, 0x11, 0x54, 0x02, 0xff

The command packet is 6 bytes, plus the additional two bytes for packet length = 8 bytes or 0x8.

Device specific commands

Command	Command Packet	Description
Audio tracking on	81 0a 11 54 02 ff	Enable execution of actions
Audio tracking off	81 0a 11 54 03 ff	Disable execution of actions
Check tracking status	81 09 7E 11 54 FF	p: 02: On 03: Off

Recall profile	81 0A 0F 0F 0p 0q FF	Load a user profile. pq : Profile Number 01h ~ FFh
Get current profile number	81 09 7E 0A 0F 0F FF	Get the number of the currently loaded profile.

HTTP Control Protocol

Command	Command Structure	Description
Audio tracking on	http://your.ip/control?feature=tracking&value=on	Enable execution of actions
Audio tracking off	http://your.ip/control?feature=tracking&value=off	Disable execution of actions
Recall profile	http://your.ip/control?feature=preset_load&value=1	Load a user profile. Profiles contain actions and hardware configuration. Replace 1 with preset number.

Factory Reset

Hold in the reset pin for 10 seconds, this will reset the default username and password and reset the network to DHCP.

