

VOICE TRACKING
CONTROL INTERFACE
VoiceTRX50
Instruction Manual

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Disclaimer of Product & Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

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

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

Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:



- a. When the power cord is damaged or frayed;
- b. When liquid has spilled into the unit;
- c. When the product has been exposed to rain or water;
- d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
- e. When the product has been dropped or the cabinet has been damaged;
- f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against manufacturing defects for **one (1) year** from the date of purchase.
- A valid purchase invoice or other proof of purchase must be provided when requesting warranty service.
- The warranty period begins on the actual purchase date. If the purchase date cannot be verified, the warranty period will begin **thirty (30) days after shipment** from a Datavideo office.
- Non-Datavideo branded products (products without the Datavideo logo) are covered by a **one-year warranty** from the date of purchase.
- Damage caused by accident, misuse, unauthorized repair, or exposure to sand, grit, or water is **not covered** under warranty.
- Virus or malware infections on computer systems are **not covered** under warranty.
- Any issues caused by unauthorized third-party software installations that are not required by Datavideo systems are **not covered** under warranty.
- All shipping, mailing, or transportation costs, including insurance, are the responsibility of the owner unless otherwise stated.
- **Teleprompter glass is not covered** under warranty.
- Accessories, including **headphones, cables, batteries, metal parts, housings, protective cases, cable reels, and consumable items**, are **not covered** under warranty.
- Warranty is valid only in the country or region of purchase.
- All other claims **not explicitly stated** are not covered.
- Your statutory rights remain unaffected.

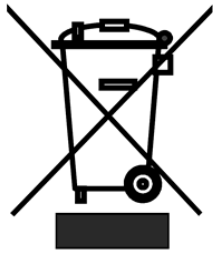
Five Year Warranty

- Starting January 1, 2026, all Datavideo products that are successfully registered on the Datavideo official website are eligible for a **free four-year extended warranty**, in addition to the standard one-year warranty, for a total of **five years of coverage**.



- **Only registrations completed through the Datavideo official website qualify** for the five-year warranty. Registrations completed through local Datavideo offices, resellers, or authorized distributors **are not eligible**.
- Certain parts with limited service life — including **LCD panels, DVD drives, hard drives, solid-state drives, SD cards, USB thumb drives, lighting equipment, non-PCIe cards, and third-party PC components** — are covered by a **one-year warranty only** and are **not eligible** for the extended warranty.
- **Camera modules** are covered by a **three-year warranty from the date of purchase**.

Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

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

All current Datavideo PTC series cameras are supported.

Video Switchers

- Internal NDI SwitchHub (License required)
- Datavideo KMU-100+
- Datavideo iCast-10NDI
- Datavideo SE-2600/3200/4000 Series
- Datavideo SE-1200/650 Series

Microphones

For the most up-to-date list of tested devices, please visit our website at www.datavideo.com.

Zones Explained

The VoiceTRX50 operates using zones no matter what audio mixer or interface is used, each audio channel will be mapped to a zone, and the zone is what triggers actions on the VoiceTRX50.

In addition to the positive zones (zone 1 onwards) there are also three negative zones that are used internally by the VoiceTRX50, 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, 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 VoiceTRX50

Directly

By default, the VoiceTRX50 will output its control UI on HDMI port 1 or 2, the port that is connected when the VoiceTRX50 is powered on will be used.

1. Connect HDMI 2 to a monitor.
2. Connect a USB keyboard and mouse to the VoiceTRX50.
3. Login with the default credentials User: admin Pass: admin.

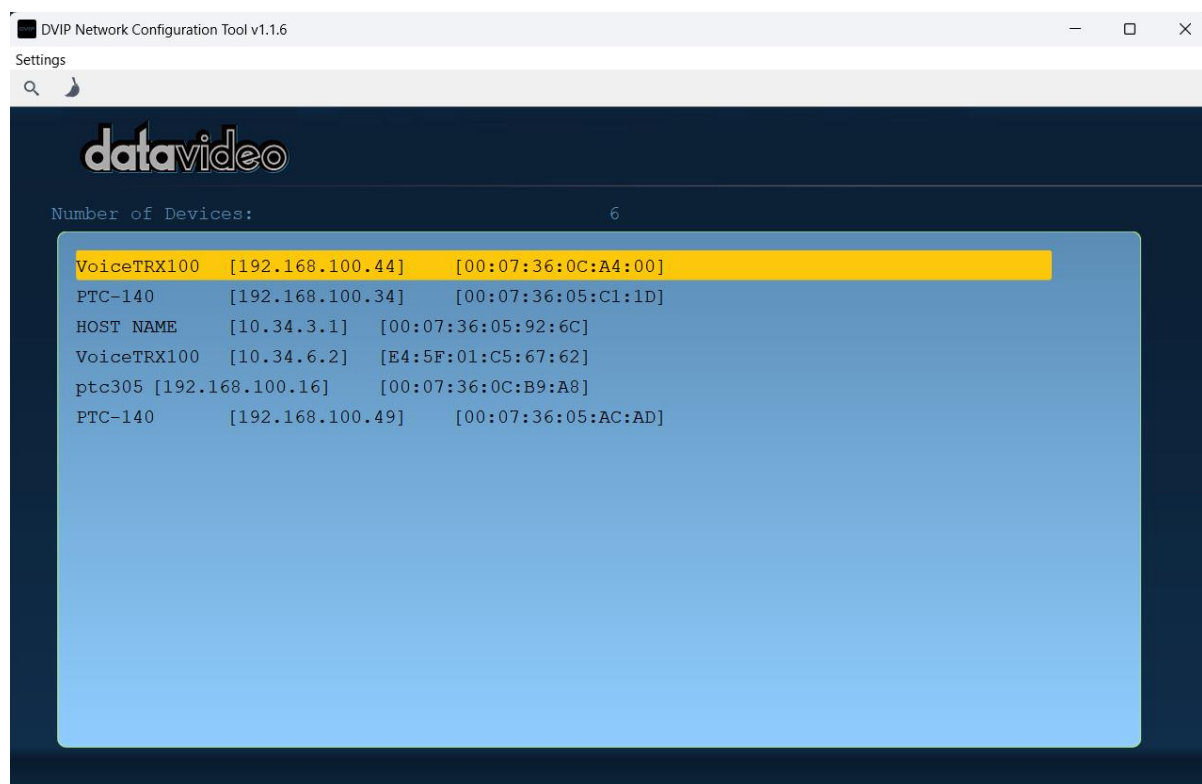
Via LAN

The VoiceTRX50 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 the same LAN as the VoiceTRX50, ensure your computer is on DHCP so its assigned an IP address in the same range as the VoiceTRX50.
2. Open a web browser and navigate to the IP address of the VoiceTRX50. We strongly recommend you use the **Google Chrome** web browser.
3. Login with the default credentials User: admin Pass: admin.

Microphone Modules

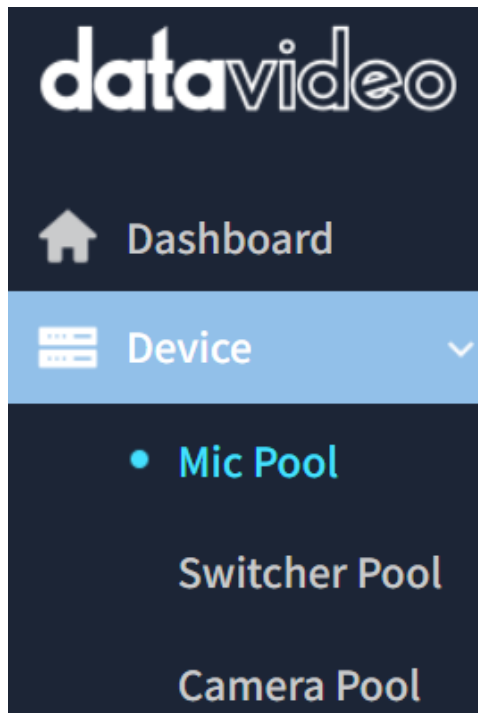
Generic USB Input

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.

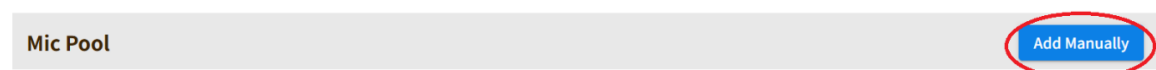
VoiceTRX50 Configuration

Configuring the generic USB input module

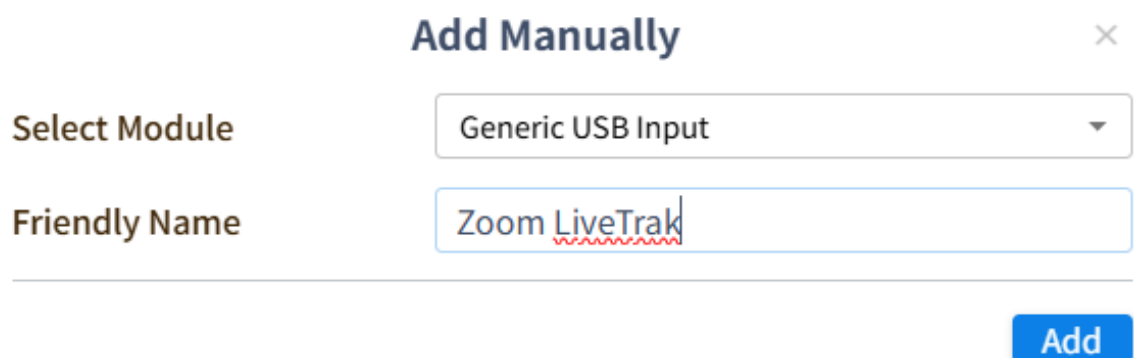
1. Click the 'Device Menu' and then 'Mic Pool'



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



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

A screenshot of the 'Add Manually' form. The title 'Add Manually' is at the top right with a close button. Below it are two fields: 'Select Module' with a dropdown menu showing 'Generic USB Input', and 'Friendly Name' with a text input field containing 'Zoom LiveTrak'. At the bottom right is an 'Add' button.

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:

Audio Device:

Zone trigger dB:

Channels:

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.

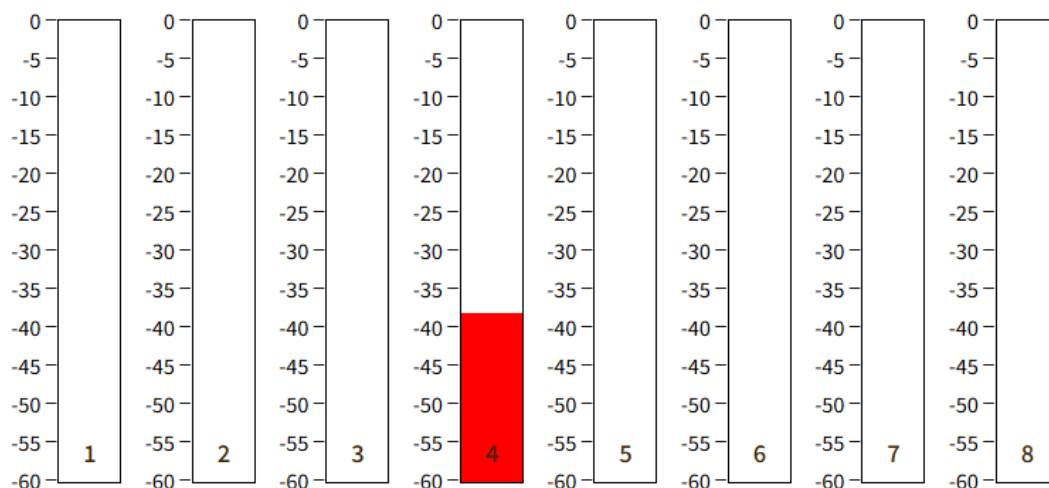
Select Unit:

Audio Device: ↻

Zone trigger dB:

Channels:

Excluded Audio channels (comma separated):



Zone Configuration

Zones on the VoiceTRX50 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

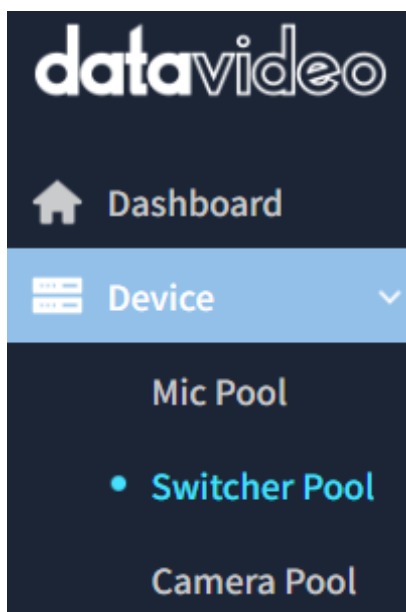
Network Connections: Ensure the VoiceTRX50 processor and iCast-10NDI are in the same local area network.

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

VoiceTRX50 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.

Scan List ×

No.	Name	IP	MAC
<input type="checkbox"/> .. 1	PTC-140 (PTC-140)	192.168.100.56	00:07:36:05:ac:ad
<input type="checkbox"/> .. 2	PTC-140 (PTC-140)	192.168.100.39	00:07:36:05:c1:1d
<input checked="" type="checkbox"/> .. 3	iCast-10 (ICAST-10NDI)	192.168.100.31	00:07:36:07:8b:38

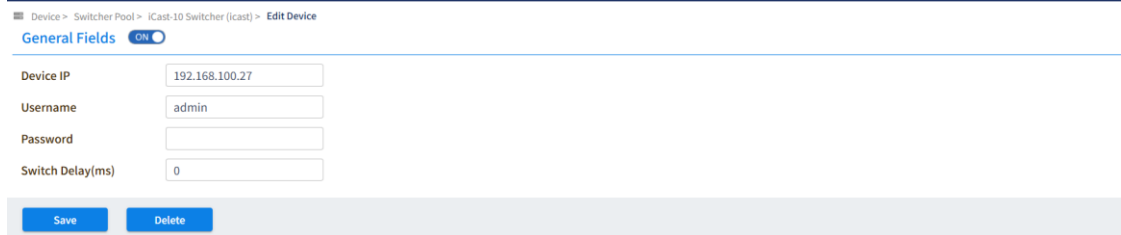
Showing 1 to 6 of 3 entries 6 Previous 1 Next

Add

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



- 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 iCast-10NDI

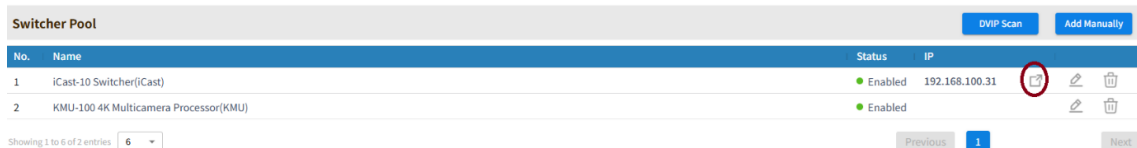
Username: Username of the iCast-10 NDI

Password: Password of the iCast-10NDI

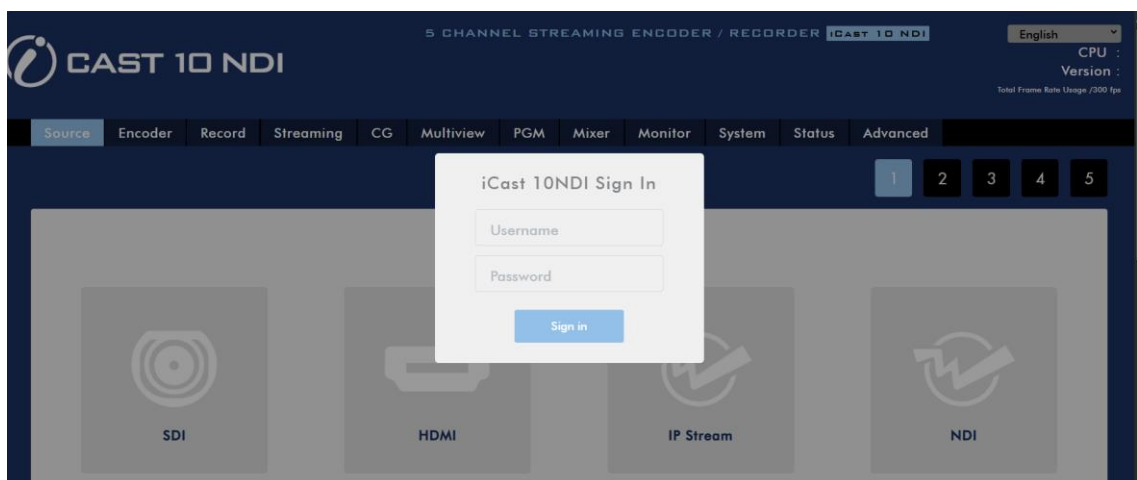
Optimising the timeout period

By default, the icast-10 requires that the VoiceTRX50 re-authenticate every 20 minutes, this can cause the system to perform slowly. To change this setting:

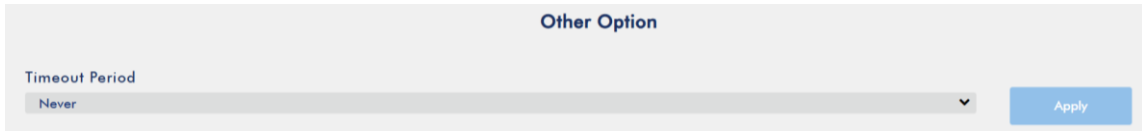
- Click the button shows below to access the iCast-10 WebUI.



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



- 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

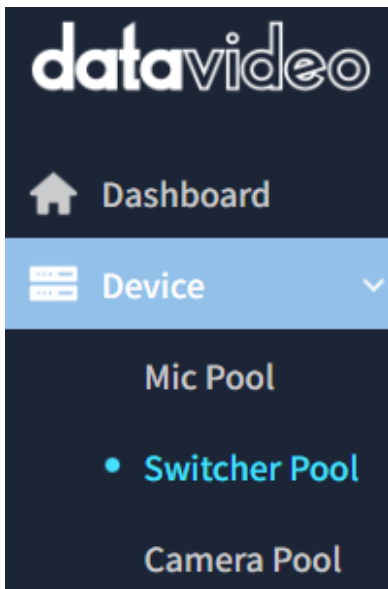
Physical Connections: Connect the VoiceTRX50 processor to the KMU-100 with the supplied RJ45 to D9 RS422 cable.

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 | Datavideo | Professional end-to-end solutions provider for your live video production..](#)

VoiceTRX50 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 ×

Select Module	<input type="text" value="KMU-100 4K Multicamera Processor"/>
Friendly Name	<input type="text" value="KMU-100"/>
Select Serial Port	<input type="text" value="Onboard RS422 Port 1"/>

3. Click the 'Add' button.

4. You will see the switchers 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

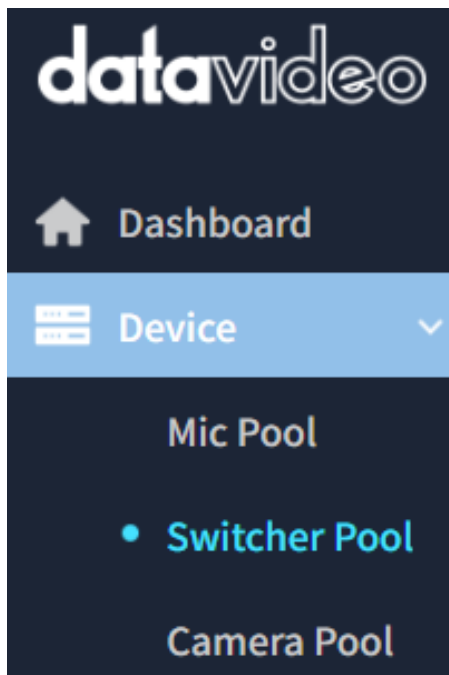
Network Connections: Ensure the VoiceTRX50 processor and SE series switcher are in the same local area network.

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

VoiceTRX50 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

Previous **1** Next

Add

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

No.	Name	Status	IP		
1	SE-2600/3200/4000 Series(2600)	Enabled	192.168.100.30		

Showing 1 to 6 of 1 entries

Previous **1** Next

The following module options are available:

Device IP: IP address of the SE series switcher

[Datavideo SE-650/1200 Series](#)

Preparation

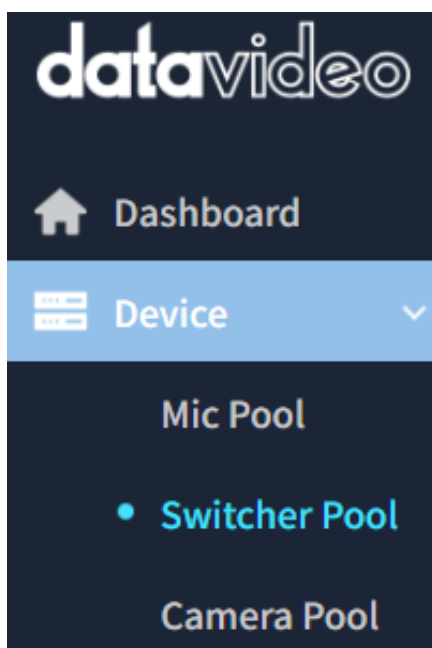
Network Connections: Ensure the VoiceTRX50 processor and SE series switcher are in the same local area network.

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

VoiceTRX50 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 type="checkbox"/>	1	SE-1200/650 Series(650)	192.168.100.140 00:07:36:04:3...

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

Switcher Pool DVIP Scan Add Manully

No.	Name	Status	IP	
1	SE-1200/650 Series(650)	Enabled	192.168.100.111	 

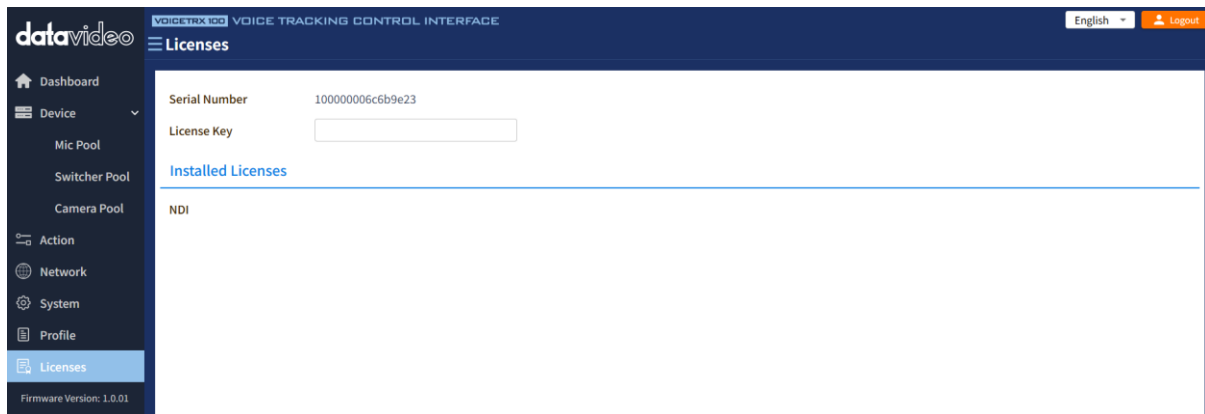
Showing 1 to 6 of 1 entries Previous 1 Next

The following module options are available:

Device IP: IP address of the SE series switcher

Internal NDI SwitchHub

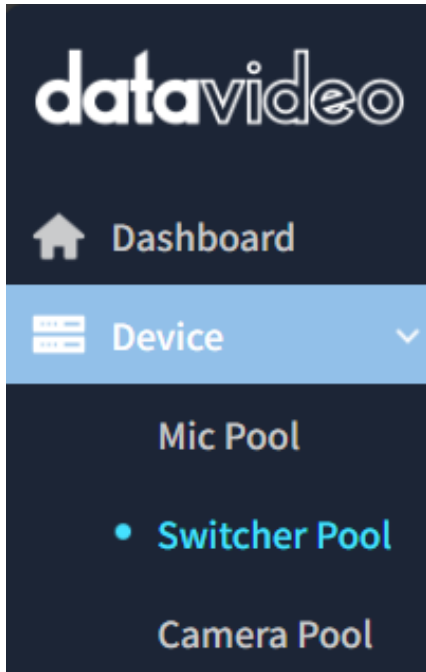
Please Note: The NDI SwitchHub function must be licensed on your VoiceTRX50 device, you can check if the NDI license is installed via the 'Licenses' tab of the WebUI.



VoiceTRX50 Configuration

NDI SwitchHub Setup

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



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



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

Add Manually ×

Select Module

Friendly Name

NDI Output Name

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

Previous **1** Next

The following module options are available:

NDI Output Name: The switched video output of the VoiceTRX50 will appear on your network with this friendly name.

Camera Modules

Datavideo PTC Series

Preparation

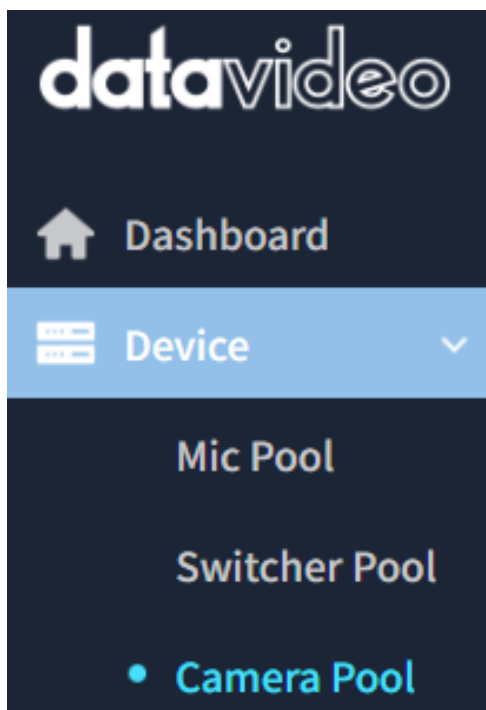
Network Connections: Ensure the VoiceTRX50 processor and PTZ cameras are in the same local area network.

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

VoiceTRX50 Configuration

Connecting a Datavideo PTC series camera

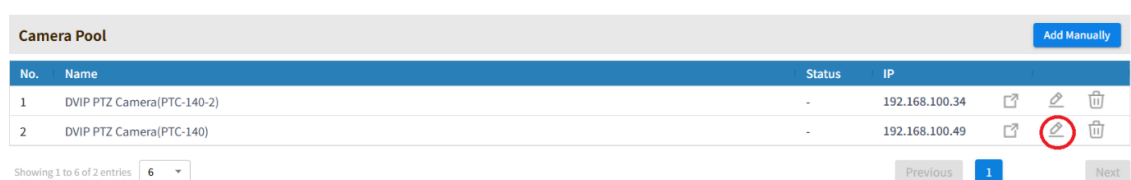
1. Click the 'Device Menu' and then 'Camera Pool'



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



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



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 VoiceTRX50 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.

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.

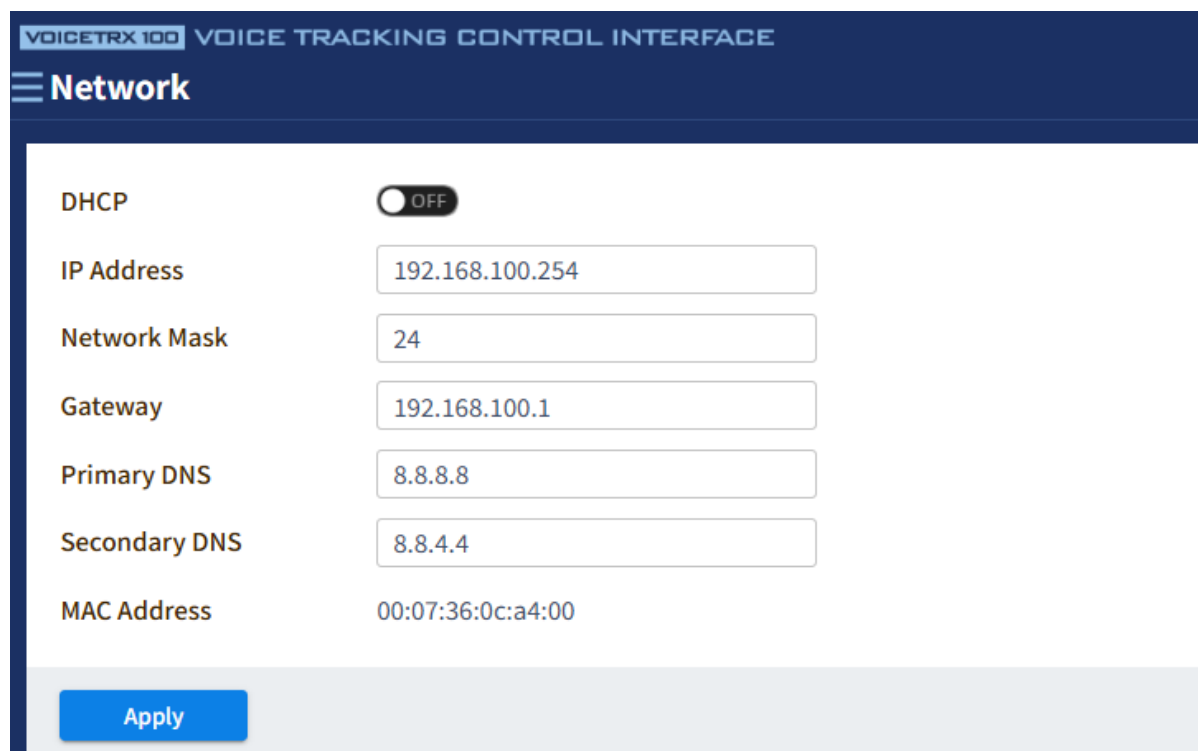
Network Mask: In CIDR format, for example a mask of 255.255.255.0 should be entered as 24 (24 bit mask).

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 unit's unique MAC (hardware address).



The screenshot shows the 'Network' configuration page for the VoiceTRX 100. The page has a dark blue header with the text 'VOICETRX 100 VOICE TRACKING CONTROL INTERFACE' and a 'Network' title. Below the header, there is a form with the following fields:

DHCP	<input type="checkbox"/> OFF
IP Address	<input type="text" value="192.168.100.254"/>
Network Mask	<input type="text" value="24"/>
Gateway	<input type="text" value="192.168.100.1"/>
Primary DNS	<input type="text" value="8.8.8.8"/>
Secondary DNS	<input type="text" value="8.8.4.4"/>
MAC Address	00:07:36:0c:a4:00

At the bottom of the form, there is a blue 'Apply' button.

Please Note: The VoiceTRX50 must have a valid gateway and DNS servers to check for firmware updates.

System

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

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

Please Note: The VoiceTRX50 must have a valid gateway and DNS servers to check for firmware updates.

HDMI Output 1 & HDMI Output 2

Resolution: Set the HDMI port's 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 camera's input. A small switch delay can be useful to allow the camera's 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 avoiding 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.

data video VOICE TRACKING CONTROL INTERFACE English

System

Dashboard
Device
Action
Network
System
Profile
Firmware Version 0.6.2

Device Name

Device Name: VoiceTRX 100

Firmware

Version: 0.6.2

Login info

Account: admin
Password:

HDMI Output Configuration

Output 1

Resolution: OFF
Content: UI

Output 2

Resolution: 1080P 30
Content: UI

Microphone

Trigger Period(ms): 500
Home Period(ms): 15000
Far end Period(ms): 1000

Logic

Audio tracking enabled:

Reboot Device

Reboot

Microphone Tie

Microphone tie must be enabled if you are using more than one microphone or receiver to control the same switcher and cameras. Microphone priority 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 (-1) on the priority microphone will be triggered. Home zone actions should only be configured for the priority microphone.

Configuration

1. The primary microphone can be selected from the 'System' page
2. Home zone actions only need to be configured for priority 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 (-1)' zone.
- If more than one microphone is active, the 'Home (-1)' zone actions are triggered on the primary microphone only.
- When mic tie is enabled, the 'Home (-1)' 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 (-1)' zone actions are triggered on the primary microphone.
- If any microphone reports it has far end active (-2) the 'Home (-1)' zone actions are triggered on the primary microphone.
- If you are using a microphone with built in far end detection capability, you must have the far end reference routed to the primary microphone.
- A dedicated 'Home (-1)' zone (wide shot) camera is recommended when using microphone tie mode.

Virtual Director

Virtual Director is an intelligent automation feature of the VoiceTRX50 system that monitors how long each participant is speaking and dynamically adjusts camera shots to mimic the decisions of a human director. Rather than holding a static close-up on a single speaker for an extended period, the Virtual Director introduces natural visual variation—such as cutting to a wide shot during longer speaking segments and then returning to a close-up at an appropriate moment. This behavior helps maintain visual interest and pacing, especially in formats like podcasts or panel discussions, while ensuring the production feels intentional, balanced, and professionally directed without requiring manual camera control.

By default, this function will trigger the home zone (-1) and hold it for a period of time if a single speaker has been speaking for longer than the defined speaker duration.

Configuration Options

- Speaker Duration(ms): The amount of time a zone must be active before the 'Home' zone is triggered,
- Hold Time(ms): How long to hold the 'Home' zone once triggered.

Far End Detection

Far end detection allows the VoiceTRX50 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 VoiceTRX50 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.

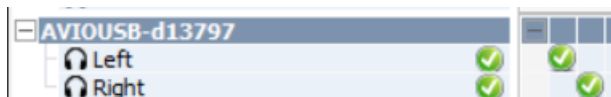
Supported DANTE Adapters

The Dante AVIO adapter, model number ADN0005 is supported by VoiceTRX50.



Configuration

1. Connect the Dante AVIO adapter to one of the two USB ports on the rear of the VoiceTRX50.
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 VoiceTRX50 '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 (-1)' 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 (-1)' 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 it's less then decrement.

While the far end is active, local zone changes are blocked, VoiceTRX50 will stay on the 'Home (-1)' 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.



The screenshot shows a web interface titled "VOICE TRACKING CONTROL INTERFACE" with a "Profile" tab selected. It displays a table with 10 rows of profiles. Each row includes a number, a profile name, and three columns for "Edit", "Load", and "Save" actions, each with a corresponding icon.

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			

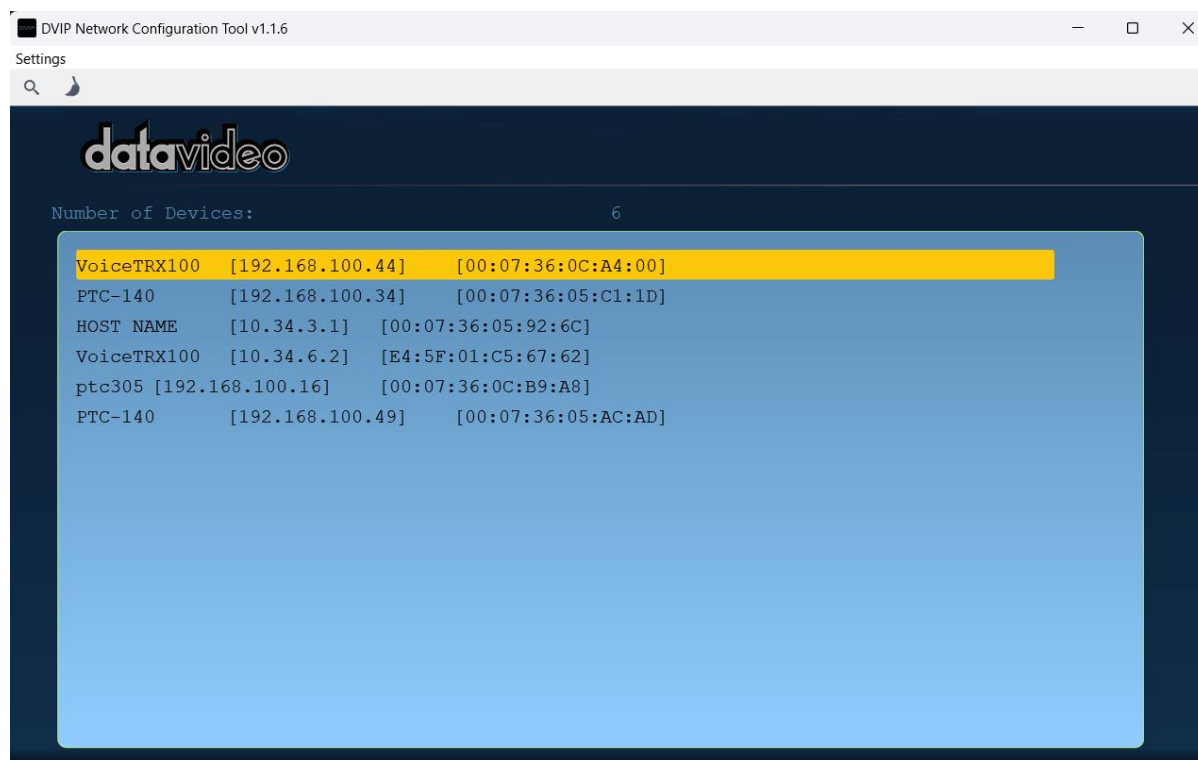
DVIP Control Protocol

The VoiceTRX50 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 VoiceTRX50 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 containing 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.

Specifications

Control	Web browser UI for configuration and control DVIP commands
Protocol	DVIP
Network	1 x RJ-45 Female (10/100/1000M Ethernet) DHCP/Static IP
POE	IEEE 802.3at
Firmware Update	Automatic Firmware Upgrade
Power	Input AC 100 – 240V Switching Adapter Output DC 12V / 1A
Video Output	2 x HDMI 2.0
Supported Video Output Resolution	Up to 3840x2160p60

Notes

Service & Support

It is our goal to make owning and using Datavideo products a satisfying experience. Our support staff is available to assist you to set up and operate your system. Contact your local office for specific support requests. Plus, please visit www.datavideo.com to access our FAQ section.

Please visit our website for latest manual update.

<https://www.datavideo.com/product/VoiceTRX50>

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