



Viz Connect Solo  
HDMI, 3G & 12G SDI  
User Guide  
Version 1.0.0



# Viz Connect



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There are general best-practice solutions, these include setting the antivirus software to not scan the systems during operating hours and that the Vizrt components, as well as drives on which clips and data are stored, are excluded from their scans (as previously stated, these measures cannot be guaranteed).

### **Technical Support**

For technical support and the latest news of upgrades, documentation, and related products, visit the Vizrt web site at [www.vizrt.com](http://www.vizrt.com).

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## Chapter 1 INTRODUCTION AND SETUP

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This guide explains how to connect power, sources, and audio-visual sources to your Viz Connect Solo. It also explains how to update, and where you can find additional NDI® software to extend your workflow. After completing this section, you will be ready to begin using your device.

### SECTION 1.1 OVERVIEW

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The Viz Connect Solo is a versatile, user-friendly media converter that streamlines IP-based video production for professionals in live events, streaming, sports, gaming, corporate communications, and education. It seamlessly converts video inputs from 3G-SDI, 12G-SDI, or HDMI sources to NDI® High Bandwidth for network integration, or decodes NDI signals for display on monitors, projectors, or video walls, eliminating cable length limitations. Designed for ease of use and compatibility with NDI-supported systems, it simplifies high-quality video transmission over IP, making it an essential tool for diverse production environments without requiring complex setups or technical expertise.

This user guide is for all three Viz Connect Solo models, and a technical specification table is provided on the following page.

## 1.1.1 TECH SPECS

Specifications	Viz Connect Solo HDMI	Viz Connect Solo 3G-SDI	Viz Connect Solo 12G-SDI
Video Input	1 x HDMI	1 x 3G/HD/SD-SDI	1 x 12G-SDI
Video Output	1 x HDMI	1 x 3G/HD/SD-SDI	1 x 12G-SDI
Embedded Audio Input	3.5mm Mono Mic Level	3.5mm Line Level	3.5mm Analog Stereo Line Level
Embedded Audio Output	3.5mm Line Level	3.5mm Line Level	3.5mm Analog Stereo Line Level
Audio Channels	4 Encode/ 2 Decode	16 Encode/ 8 Decode	16 Encode/ 8 Decode
Encoding/Decoding	NDI®		
Network	X RJ-45 port Gigabit Ethernet		
Interface	Web-based user interface for configuration and monitoring		
Tally	Tally support via NDI®		
Format	2160p: 60, 59.94, 30, 29.97, 25 1080p: 60, 59.94, 50, 30, 29.97, 25 720p: 60, 59.94, 50, 29.97 576p: 50 480p: 60, 59.94	1080p: 60, 59.94, 50, 29.97, 25 1080i: 59.94, 50 720p: 60, 59.94, 50, 29.97, 25	2160p: 59.94, 50, 29.97, 25 1080p: 59.94, 50, 29.97, 25 1080i: 59.94, 50 720p: 59.94, 50, 25
SDI	N/A	75 Ohm impedance SMPTE ST-424M, ST-292M	
Power	Power over Ethernet or External Power Adaptor DC 5V~18V Power Supply		
Physical	Portable enclosure with threaded screw camera mount 3.94 x 3.15 x .94 in (100 x 80 x 24 mm) .53 lbs (.24 kg)		Portable enclosure with threaded screw camera mount 4.33 x 3.7 x 1.1 in (110 x 95 x 28 mm) .66 lbs (.30 kg)

## SECTION 1.2 GETTING READY

Your Viz Connect Solo uses the NDI protocol for audio/video transmission, and more. Your first step will be to install a few NDI utilities appropriate for your computer platform or device:

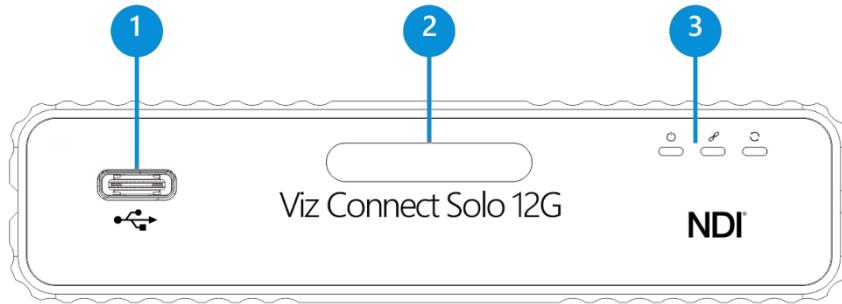
1. Navigate to [ndi.video](http://ndi.video) in your web browser and follow directions to download and install the NDI Tools pack, available at no cost.

NDI Tools provides a valuable array of practical NDI learning tools and utilities, including NDI Studio Monitor, which will not only locate and display the network video output from your Viz Connect Solo unit, but also makes it easy access to its settings.



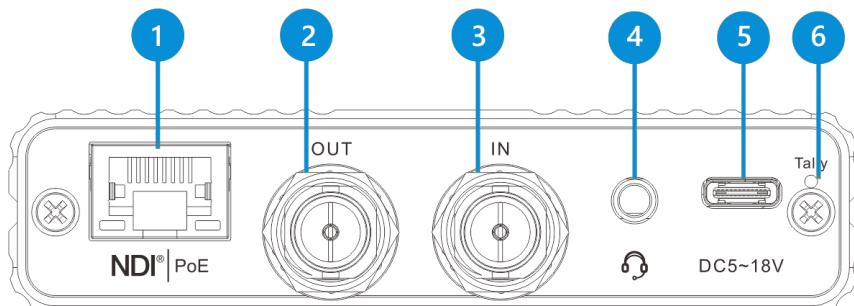
## SECTION 1.3 INPUT CONNECTIONS

### Front Panel of all Viz Connect Solo models:



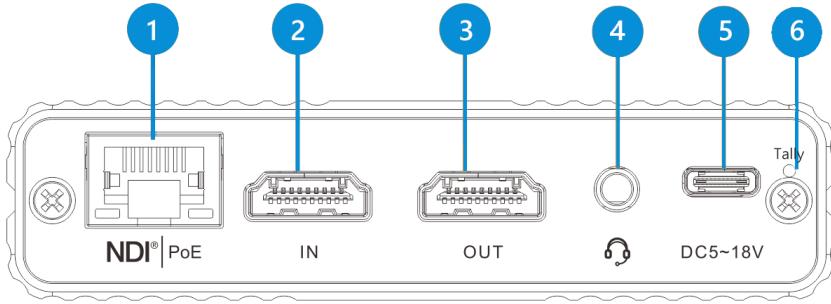
1. Type-C Extension
2. 2. Tally
3. Status Indicator

### Viz Connect Solo 3G-SDI & 12G-SDI Back Panel:



1. GbE port with PoE Support
2. SDI Input
3. SDI Output
4. 3.5mm Audio
5. USB-C
6. Tally

## Viz Connect Solo HDMI Back Panel:



1. GBE port with PoE Support
2. HDMI Output
3. HDMI Input
4. 3.5mm Audio
5. USB-C
6. Tally

1. Supply *power* to the unit, by connecting the supplied power adapter to Viz Connect Solo's USB-C port, located beside the audio input connector. The unit boots as soon as power is supplied. At this point, the three small LED Status Indicator lights will illuminate. (If this does not happen, check your connections, and retry.)
2. Continue to connect one end of a network cable to Viz Connect Solo's RJ-45 Ethernet port.
3. Connect the other end of the cable to your network switch or router.
4. Optional steps:
  - a. Connect an HDMI video cable from a suitable video source to Viz Connect Solo's HDMI input connector.
  - b. If you wish, connect an analog audio source to the 6.35mm audio input. (Stereo audio available in SDI model).

If you connected a video source in step 4 above, your Viz Connect Solo is already sending NDI audio and video to your local network. We will talk about how to access and use it soon, but first let us discuss how to access Viz Connect Solo settings and features.

*Hint: In 'mission' critical installations, it is wise to use an uninterruptable power supply (UPS). Likewise, consider A/C "power conditioning", especially in situations where local power is unreliable or 'noisy'. Surge protection is especially important in some locales. Power conditioners can reduce wear on power supplies and other electronics, and provide a further measure of protection from surges, spikes, lightning, and high voltage.*

Viz Connect Solo is quite easy to use. In many installations, all you need to do is supply power, connect a video source and your network, and you're ready to go.

Sometimes, though, you will want to access your input module's local settings, to configure login credentials, update firmware, etc.

Settings are made available by means of Viz Connect Solo's configuration webpage, which you can access from any suitable device (i.e., one with a web browser) on the same network.

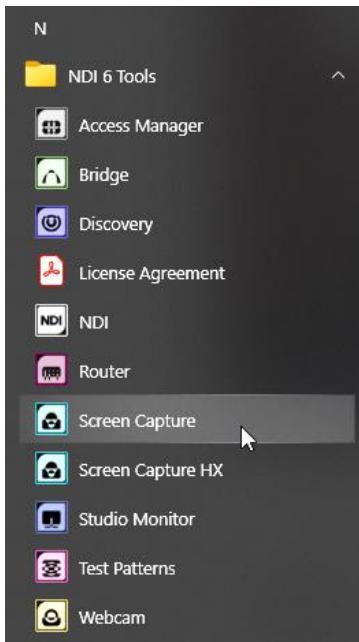
*Note: You may occasionally find it necessary to delete cached files (sometimes referred to as the browser's "history") before the display refreshes to properly show recent change. This can happen, for example, after a firmware update.*

Some devices provide direct, easy access to Viz Connect Solo's configuration webpage.

For example, when you select output from a Viz Connect Solo as the source for a TriCaster switcher input, a convenient "Device Webpage" button is shown in TriCaster's Input Configuration panel. Simply click this to open the corresponding web control page.

*Note: When connecting a camera to your Viz Connect Solo be sure the setting is set to 8-bit.*

### 1.3.2 STUDIO MONITOR



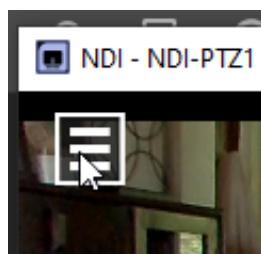
For other platforms, you can use the Studio Monitor application you installed back in Section 1.2 in a similar manner.

Windows platform users can launch Studio Monitor from the system's Start menu, where it will appear in the NDI Tools folder. Among its capabilities, Studio Monitor can detect and display NDI sources available on your network.

OS X users will also find a similar NDI Video Monitor application available to them after installing the NDI Tools pack for their preferred platform.

#### LOCATING VIZ CONNECT SOLO ON THE NETWORK – WINDOWS

1. Launch Studio Monitor and click the small menu ("hamburger") gadget at upper left to open the application menu.



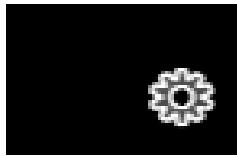
Among other things, this menu displays all NDI sources detected on your network.

2. Shortly, you should see a new main entry named NDI\_SPARKIO added to the menu. Roll the mouse pointer over this label to show the channel names for NDI output streams from any Viz Connect Solo units detected.

*Hint: Detection of newly connected NDI sources can take a few moments; in network settings with a great number of NDI sources available, a complete refresh of the source list can take a minute or even more.*

*When the sub-menu lists multiple NDI channels with the same name, the device IP addresses are shown to further identify them. (NDI users seldom need to bother with mundane matters such as IP addresses.)*

Select the newly listed channel for your Viz Connect Solo unit you wish to configure. In a few moments, its video output will appear in the Studio Monitor window.



1. For NDI sources that, like Viz Connect Solo, host a configuration web page, a small configuration (gear) icon appears at lower right when you the mouse pointer is over the Studio Monitor window.
2. Click the gear to open the corresponding web page, popping up a request for you to enter login credentials.

*Note: The Microsoft Edge web browser is not fully supported at this time. On Windows platforms, please use another modern web browser or Internet Explorer.*

#### LOCATING VIZ CONNECT SOLO ON THE NETWORK – OS X

The process is similar for OS X users.

1. Having launched the Video Monitor application, use the File menu at the top of the Desktop to locate a new main entry named SPARKIO\_3G\_SD1 (unit serial number) or SPARKIO\_12G\_SD1 (unit serial number) or SPARKIO\_4K\_HDMI (unit serial number).
2. Rolling the mouse pointer over this label shows the individual names for the NDI output channels of any Viz Connect Solo units detected on the network.

*Hint: Detection of newly connected NDI sources can take a few moments; in network settings with a great number of NDI sources available, a complete refresh of the source list can take a minute or even more.*

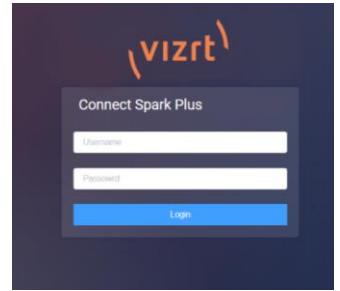
*When the sub-menu lists two or more NDI channels with the same name, the source device IP address is shown to further identify them. (Otherwise, NDI users seldom need to bother with matters such as IP addresses)*

Select the newly listed channel for the Viz Connect Solo unit you wish to configure. In a few moments, its video output will appear in the Video Monitor window.

3. The Video Monitor Settings menu shows an option near the bottom that lets you open the Device Webpage in your system web browser. Select this item and continue as follows.

### 1.3.3 LOGGING IN

Enter the Username “admin” and the default Password also “admin.”



### 1.3.4 AUDIO/VIDEO SETTINGS

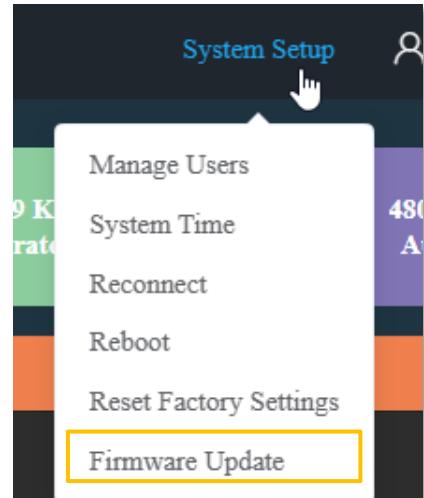
At this point, the Viz Connect Solo encoder configuration webpage will be displayed.

### 1.3.5 UPDATE YOUR FIRMWARE

We encourage you to keep the firmware on your Vizrt device up to date. Firmware updates may contain bug-fixes, provide improved performance, or even enable new features.

The update process is not complicated – simply follow the steps listed below:

1. Download and unzip the most recent firmware update archive to extract the '.bin' file.
2. Click the *System Setup* tab at the top of Viz Connect Solo's webpage and compare the *Firmware Update* shown to the number in the filename of the firmware version you downloaded. If the download has a higher revision number, continue below to perform the update.
3. Click the *Update Firmware* button and click *Choose File* to show a file explorer.
4. Use the file explorer to locate the firmware .bin file and follow the prompts to perform the update.



⚙️ **Firmware update**

\* Click [here](#) to download the latest firmware for this device.

Firmware version: 1.20.0004.0002

Note: After a firmware update, the system will automatically restart to complete the update process!

Select a file
Upgrade

You can only upload bin files

File not selected

Viz Connect Solo will reboot during this process, which can take up a few moments. Please be careful not to interrupt power to the device during the update process.

5. Following a firmware update, we recommend performing a *Restore* operation. A *Reset buttonhole* is located on the underside of the device, or you can use the *Restore* function from the web page.

*Hint: On some web browsers, you may occasionally need to clear the browser's cache (history) to see the result of a firmware update or Factory Reset. Also, please note that it can take a minute or two before the NDI channel name shown in Studio Monitor refreshes.*

The IP address of the device can change as a result of a Restore operation. You may need to use Studio Monitor to locate the device on the network and log in again afterward. Also, if you have previously set a manually configured IP address for the unit, you will need to reconfigure the IP settings again following a Restore operation.

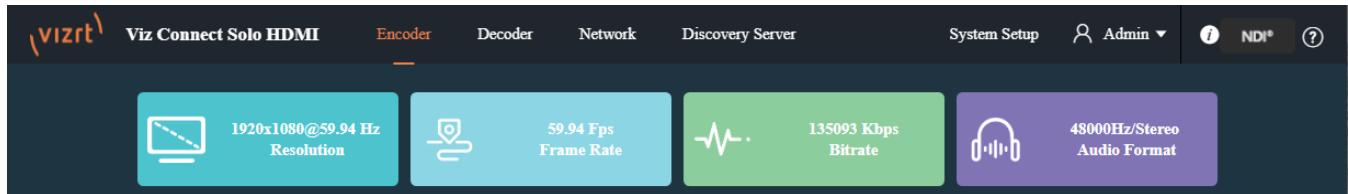
*Hint: Should you set a custom password and then forget it; you can reset the device to factory defaults using the Factory Reset process.*

### 1.3.6 UTILITIES

*Reset, Reboot and Restore* buttons are in the pull-down menu under *System Setup* tab at top of webpage (shown on previous page).

- **Manage Users** - allows you to control access to the device's web-based interface.
- **System Time** – choose your location and region.
- **Reconnect** – breaks and re-establishes the connection between the source and NDI-enabled devices and systems.
- **Reboot** – restarts the device (a 'warm' reboot).
- **Reset Factory Settings** – has the same effect as pressing the recessed *Reset* pin near the RJ-45 NDI connector on the back of the device for 10 seconds. This resets all settings to their as-shipped default states. (On selection, the tally LEDs on the front of the unit progressively cycle to off, then on again a short while later after defaults have been restored and the unit has rebooted.)
- **Firmware Update** - may contain bug-fixes, provide improved performance, or even enable new features.

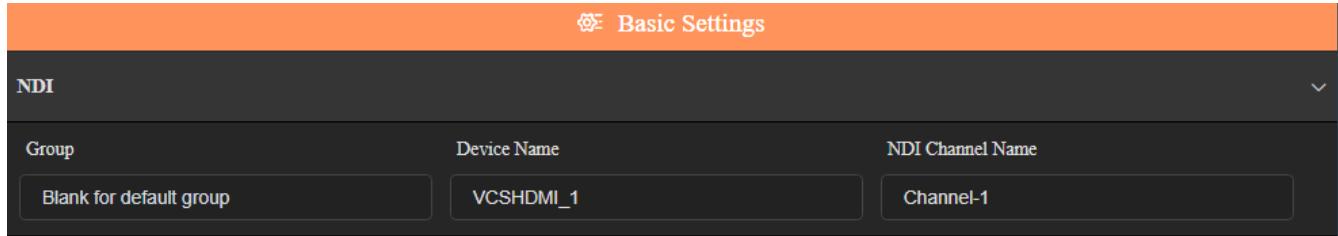
### 1.3.7 DEVICE DETAILS



The uppermost section of the web page (under device name) shows Audio/Video format details, the current bitrate and the unit's serial number. These values are automatically detected and are not editable.

### 1.3.8 DEVICE AND CHANNEL NAME

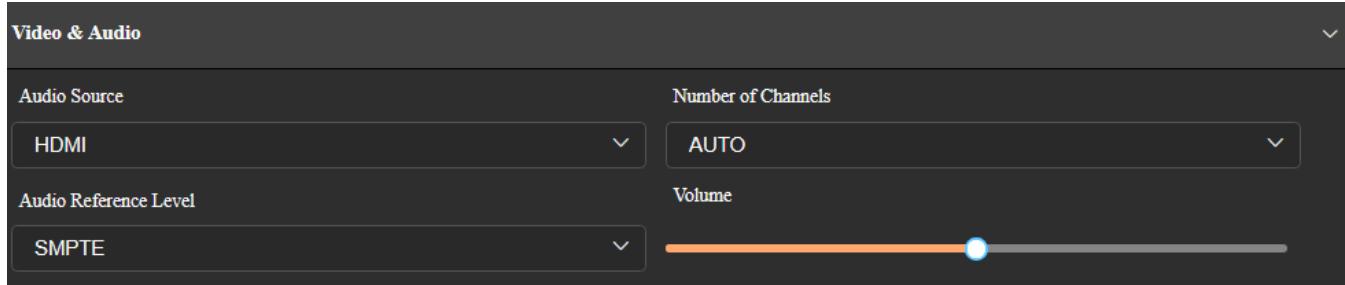
Just beneath, under the heading *Basic Settings*, you will find *Device Name* and *NDI Channel Name* boxes. The entries here determine how your Viz Connect Solo device is identified on your NDI network. These names are editable, allowing you a convenient way to identify the output of specific Viz Connect Solo units to downstream NDI-enabled devices and systems.



*Hint: The default name includes the unit serial number, which is also provided on a sticker on the chassis to help you identify a specific device.*

### 1.3.9 AUDIO

Just below, you will see the *Audio Source* menu which offers two options, labeled *Mic In* and *HDMI*. These determine whether Viz Connect Solo uses the embedded audio source (digital audio included with an HDMI video source), or analog audio supplied to its 1/8" line level input connector. The nearby volume control governs the audio output level. The device's nominal audio level is +4dBu.

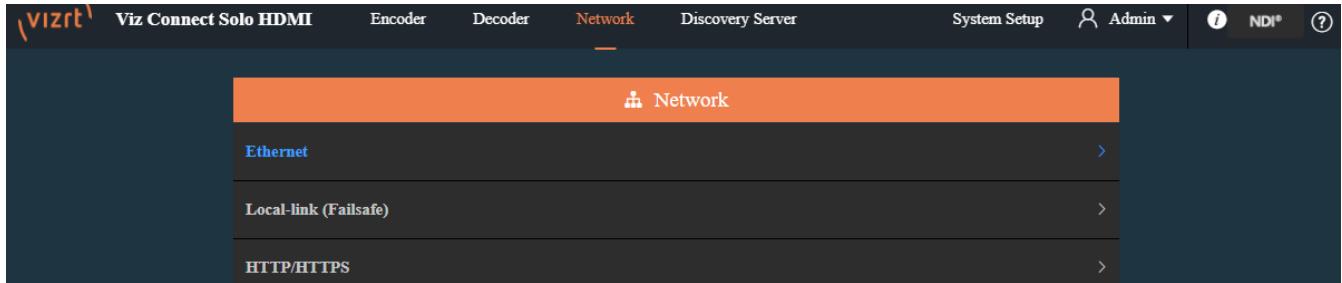


The twirl-down menu under *Audio Reference Level* and choose between SMPTE (Society of Motion Picture and television Engineers) or EBU (European Broadcasting Union) and the menu.

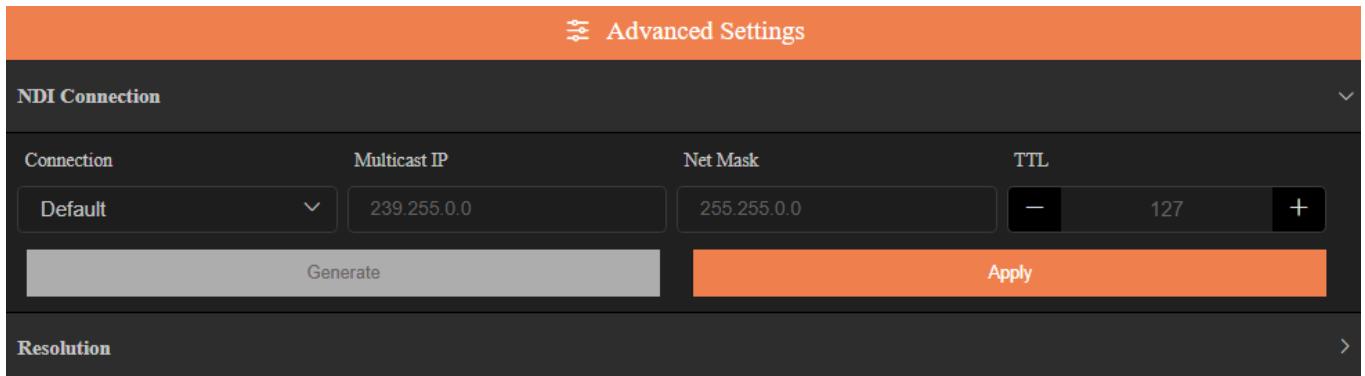
Manage and monitor multiple embedded audio streams within a single video source under the *Number of Channels* twirl-down menu.

## Chapter 2 NETWORK SETTINGS

On the top panel of the webpage, you will find the *Network* heading, which is host to *NDI Connection*, *Ethernet*, and *Local - Link* settings NDI Connection.



### 2.1.1 NDI CONNECTION



Under the *Connection* tab is a twirl-down menu with the following options:

- **Default** – uses the standard NDI connection.
- **RUDP** – a network protocol that prioritizes low latency for real-time video while ensuring reliable data delivery.
- **Multi-TCP Disallowed** - restricts the NDI stream to a single TCP network connection, which can be useful for certain network configurations.
- **MULTICAST** - An efficient method to send a single video stream to many different devices on a network simultaneously.

If choosing MULTICAST mode, NDI transmission will be executed in multicast mode. Click *Generate*, a multicast IP will be generated randomly, or you can configure it manually and click *Apply* to take effect.

*Net Mask* defines the range of IP addresses on the network that can be used for multicast streaming.

*TTL* (Time to Live) - A value that limits how many routers a data packet can pass through before being discarded. A higher number allows the stream to travel further.

## CONNECTION: DEFAULT OR MULTICAST

Although it serves no useful purpose when connecting directly to dedicated NDI inputs, this option may be helpful in some more sophisticated environments. Select *Multicast* to transmit video using multicast, rather than the default unicast method. A suitable multicast address is generated, but you can edit the result manually if you need to. To update the address to another random value, click *Generate*. *Please take time to consider the following information before enabling this feature.*

### MULTICAST OR UNICAST?

Multicast can seem like a bandwidth-saving miracle. Unlike NDI's default mode (unicast), multicast does not require a unique stream from the source to each receiver. When using unicast, each connection to the sender reduces the bandwidth available by a similar amount.

By contrast, multicast connections do *not* add significantly to the bandwidth required as connections multiply. You could be forgiven for wondering why anyone would ever turn this option off - yet it is off by default. Why?

This is because multicast requires more careful network configuration. While you might not notice any issues in a simple network setting; a poorly configured environment can have serious impact on more complex networks.

- Specifically, it is essential that IGMP snooping be enabled for each switch on the network. This lets the device listen to traffic between other hosts, switches, and routers, and identify receiving ports using various IP multicast streams.
- In addition, we strongly recommend that all network switches be of the 'managed' type (see the sidebar "Managed vs. Un-managed").

### Managed vs. Unmanaged

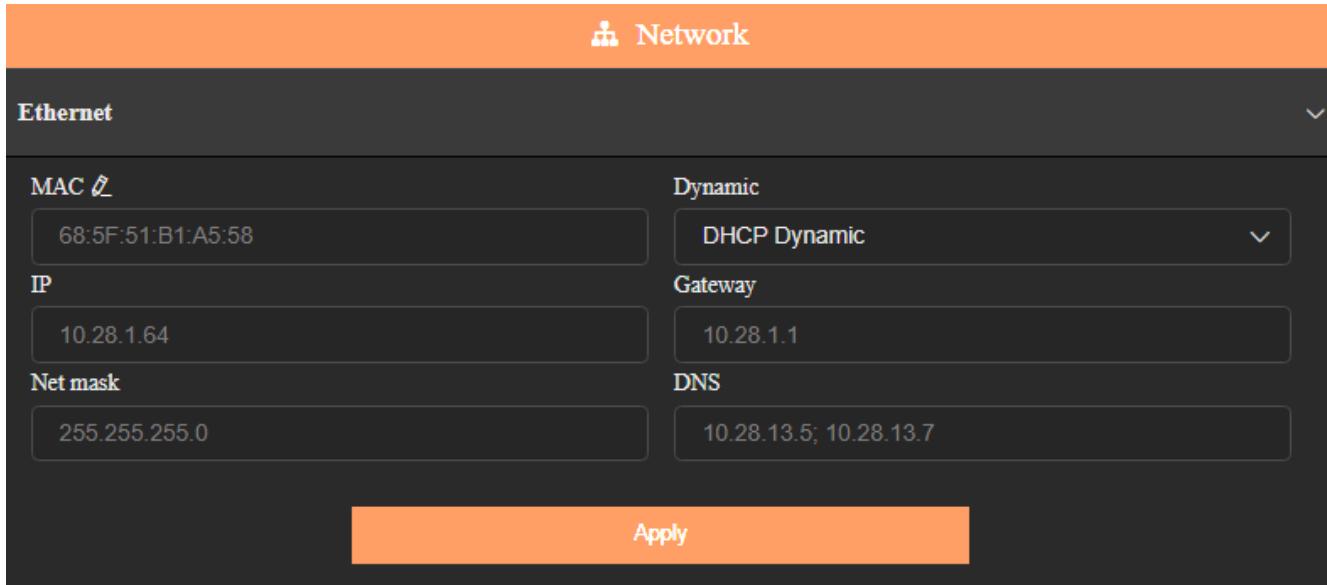
An un-managed (a.k.a., 'dumb') network switch will broadcast a multicast stream to all devices on the network, with potentially very serious ramifications.

For example, even though a device broadcasts a multicast stream, the un-managed switch will pass *unicast* packets to downstream switches and clients. This can flood the network with unnecessary traffic and slow it down as upstream devices are forced to wait for responses from the over-saturated devices.

### 2.1.2 ETHERNET

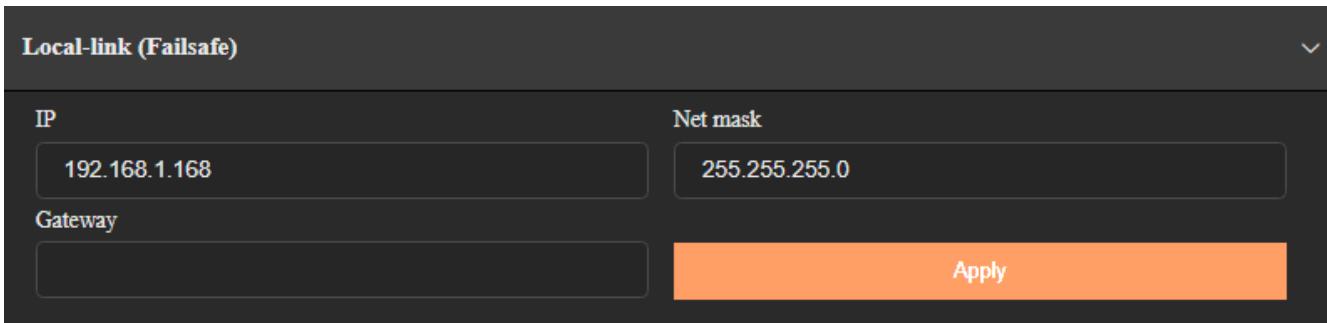
Controls in this section will be quite familiar to anyone who has connected a computer or mobile device to a network and require little explanation.

Typically, networks are configured to automatically supply IP addresses to devices you connect to it by means of a DHCP server. Your device's IP Address resolution method is set to *Dynamic* by default, to take advantage of this scheme. To assign a static IP address to your unit, change the IP Address setting to *Manual*.



### 2.1.3 LOCAL-LINK (FAILSAFE)

If Viz Connect Solo's default IP Address setting (Dynamic) should ever fail to provide a usable IP address within a minute or two – as when an active DHCP server is not found on the network – you can locate your Viz Connect Solo on the network using its failsafe Local-Link feature.



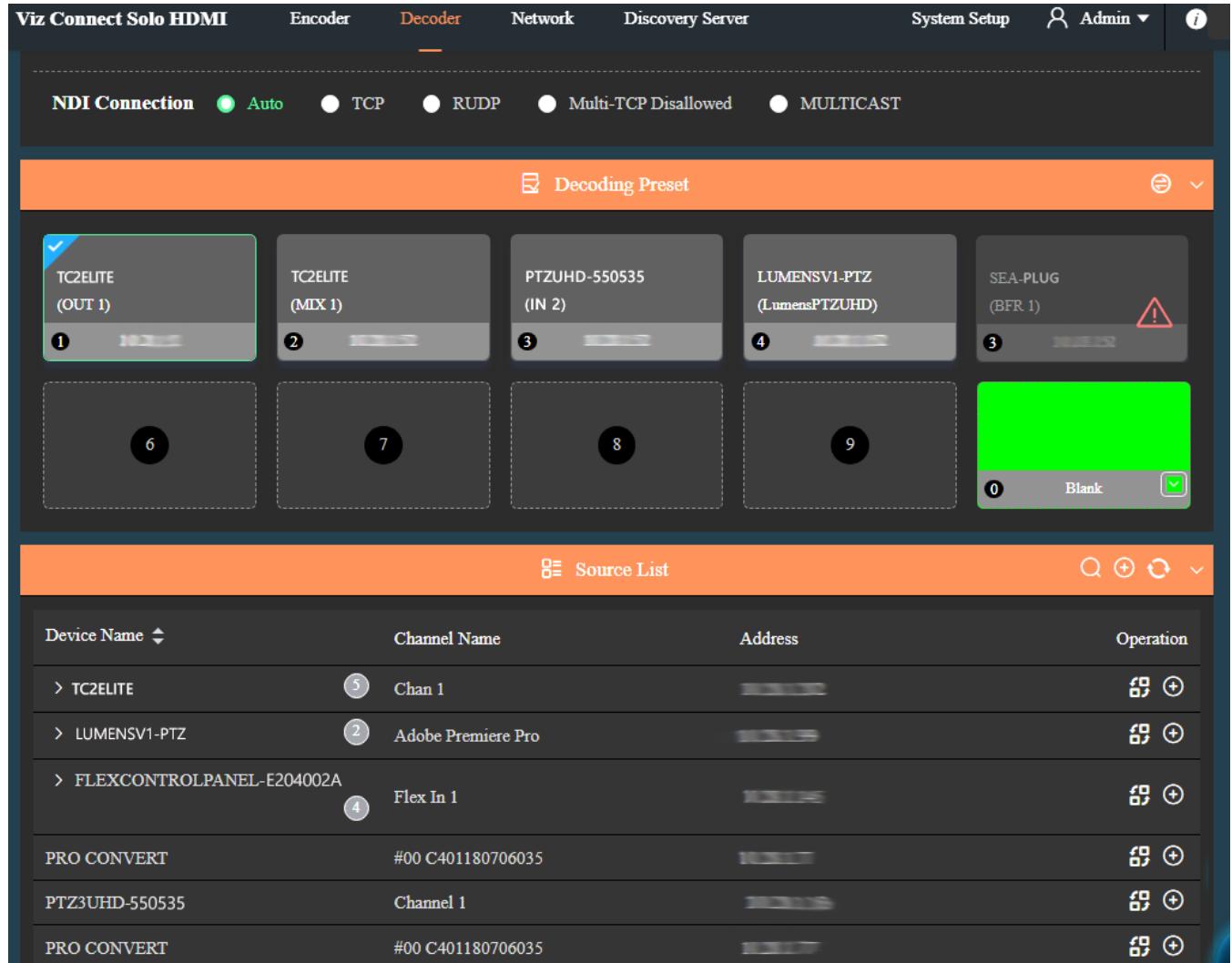
In this scenario, temporarily set the network adapter of your computer to a static IP address such as 192.168.1.1, with a netmask of 255.255.255.0 and connect your Viz Connect Solo.

Then run Studio Monitor on the computer, as described earlier to locate the unit. This will allow you to use Viz Connect Solo's web page to set a suitable static IP of your choosing, following which you can restore the computer's normal network configuration settings.

## Chapter 3 NDI DECODING CONFIGURATION

Before using decoding function, please check the Ethernet IP address and log into the webpage for management with this address, and then switch to decoding function.

*Note: Encoding and decoding functions of the device cannot be carried out simultaneously. If the device is switched to decoding function, encoding function will be stopped. You will receive a pop-up reminder before moving forward.*



The screenshot shows the Viz Connect Solo HDMI configuration interface. The top navigation bar includes tabs for **Viz Connect Solo HDMI**, **Encoder**, **Decoder** (which is selected), **Network**, **Discovery Server**, **System Setup**, **Admin**, and a help icon.

**NDI Connection:** Options include Auto (selected), TCP, RUDP, Multi-TCP Disallowed, and MULTICAST.

**Decoding Preset:** This section shows a grid of 10 numbered slots (1-10) for mapping NDI sources to outputs. Slot 1 is highlighted with a green border and a checkmark, indicating a completed switch. Other slots are numbered 2, 3, 4, 6, 7, 8, 9, and 10 (Blank). A warning icon is present in slot 5.

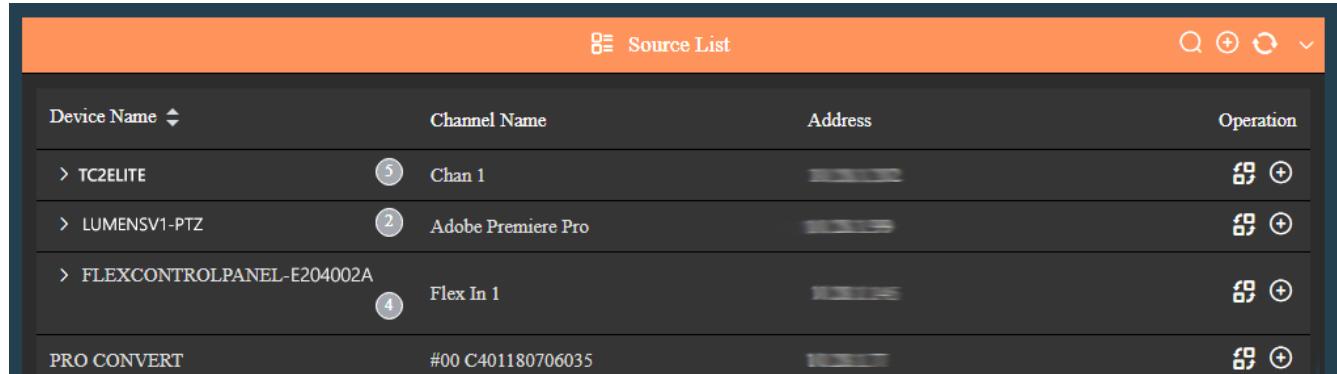
**Source List:** This table lists available devices and their addresses:

Device Name	Channel Name	Address	Operation
TC2ELITE	Chan 1	██████████	⊕
LUMENSV1-PTZ	Adobe Premiere Pro	██████████	⊕
FLEXCONTROLPANEL-E204002A	Flex In 1	██████████	⊕
PRO CONVERT	#00 C401180706035	██████████	⊕
PTZ3UHD-550535	Channel 1	██████████	⊕
PRO CONVERT	#00 C401180706035	██████████	⊕

*Note: The blue banner with a checkmark (as shown as the first preset above) signifies the Switch completed.*

## DISCOVER NDI SOURCE

In the same subnet, NDI sources can be displayed in the source list through automatic discovery. (See icon descriptions below)



The screenshot shows a table titled "Source List" with columns: Device Name, Channel Name, Address, and Operation. The table contains the following data:

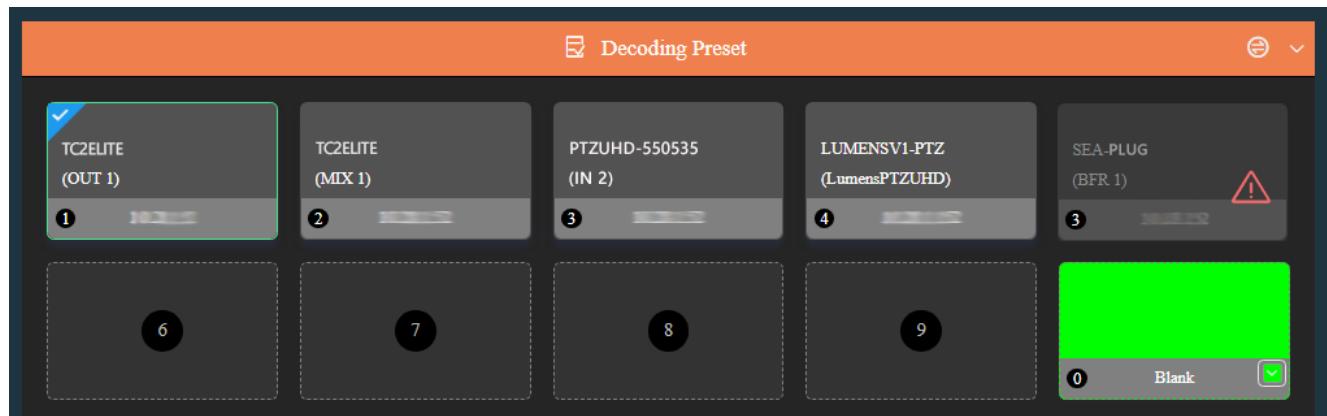
Device Name	Channel Name	Address	Operation
> TC2ELITE	⑤ Chan 1	██████████	☒ +
> LUMENSV1-PTZ	② Adobe Premiere Pro	██████████	☒ +
> FLEXCONTROLPANEL-E204002A	④ Flex In 1	██████████	☒ +
PRO CONVERT	#00 C401180706035	██████████	☒ +

Below the table is a legend with five entries:

- Q: Enter the group name of the NDI source you want to discover.
- ⊕: Configure an IP address to manually add a source. For example, you can add a cross network NDI source in this way.
- ⟳: Refreshes the NDI sources.
- ☒ +: For discovered video sources, click to add the source to decoding preset.
- ☒: Decode and output immediately

### 3.1.1 OUTPUT OF NDI DECODING

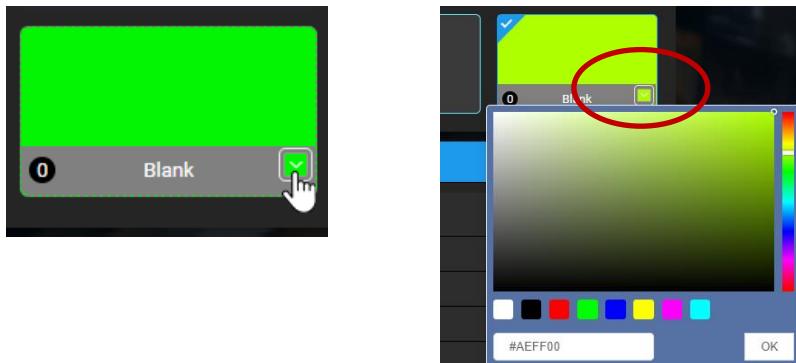
Under *Source List*, you can add up to nine preset decoding sources. By clicking on the NDI source, the device will start to decode the corresponding NDI source, and can be switched and decoded by clicking other NDI sources.



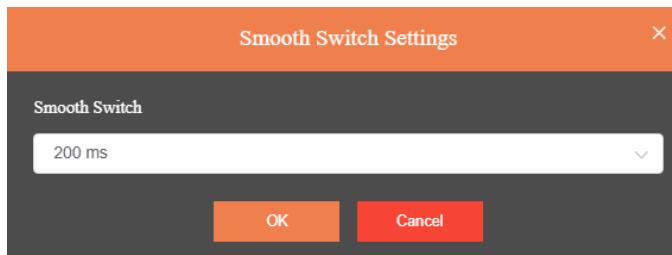
The screenshot shows the "Decoding Preset" interface with nine slots, each representing a decoding preset. The slots are numbered 1 through 9. The status of each slot is as follows:

- Slot 1: TC2ELITE (OUT 1) - Active (highlighted with a green border)
- Slot 2: TC2ELITE (MIX 1)
- Slot 3: PTZUHD-550535 (IN 2)
- Slot 4: LUMENSV1-PTZ (LumensPTZUHD)
- Slot 5: SEA-PLUG (BFR 1) - Inactive (red warning icon)
- Slot 6: Blank (unchecked)
- Slot 7: Blank (unchecked)
- Slot 8: Blank (unchecked)
- Slot 9: Blank (unchecked)

In the *Decoding Preset* section, there is a blank output box, if switching without video output, the device will output the set color. It can also be used for testing the output to the monitor by choosing a different color.

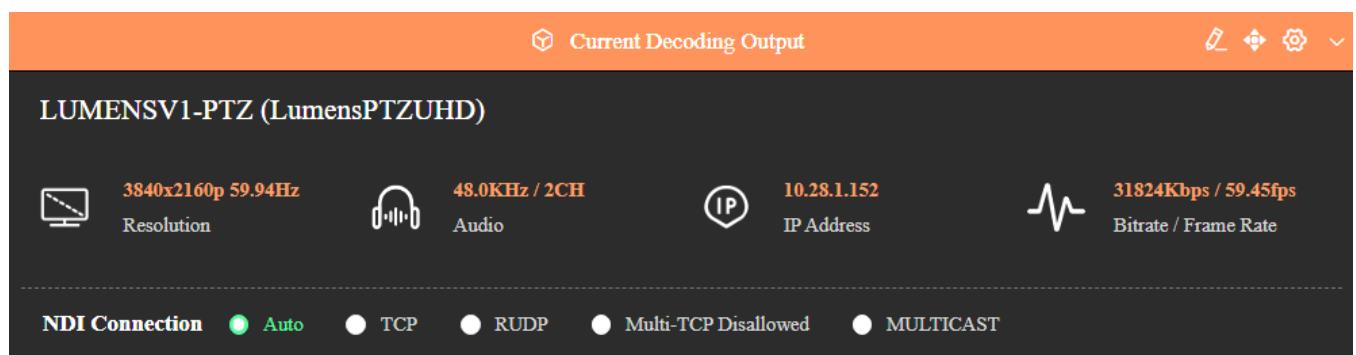


 To the right of the *Decoding Preset* header, you will find a button for setting parameters for a smooth switch. For example, a video or slow transmission can be set to have a longer smooth time.



### 3.1.2 DECODING PARAMETER SETTINGS

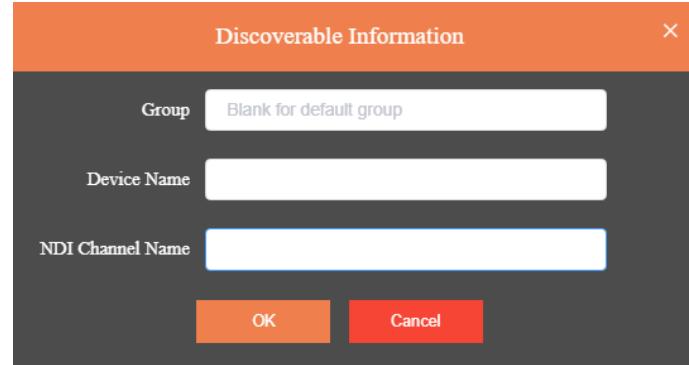
*Current Decoding Output* will display the information of the current decoding NDI source name, channel name, resolution/refresh rate, audio parameters, source IP address, real time bit rate and frame rate.



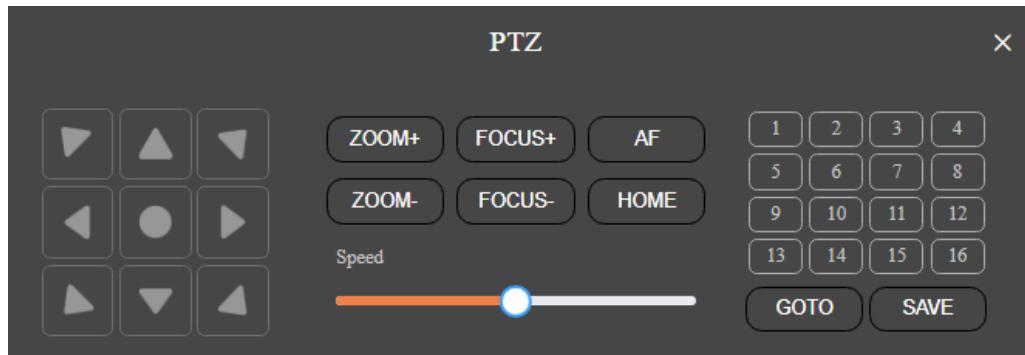
*Note: When connecting a camera to your Viz Connect Solo be sure the setting is set to 8-bit.*



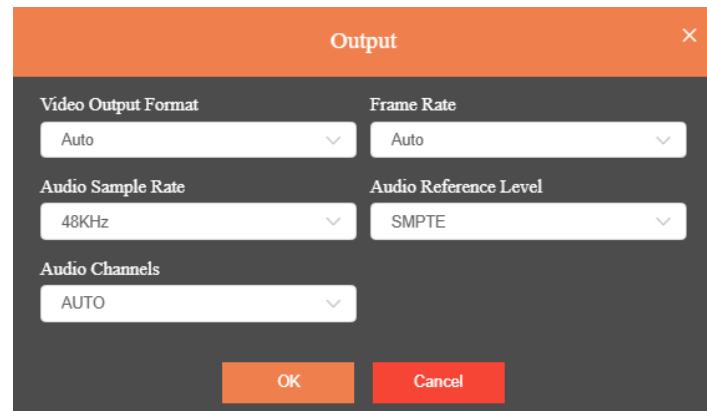
By clicking the Pencil button, (located at the top right of the output pane) you will be able to find *Discoverable Information* by group, device name and NDI channel name.



The PTZ Panel button opens the PTZ settings panel (shown below). This feature becomes available when you select a standard, static NDI source in your decoding output. It allows you to create virtual pan, tilt, and zoom movements by cropping a smaller window within the static, wider-angle field of view of the source.



The gear button allows output parameters to be configured. The resolution of the decoding output will be the same as that of the source. Frame rate and audio sample rate can be set accordingly.



**NOTE:** If the current decoding source is disconnected, a red warning notice will be displayed on the upper-right corner, showing the device offline.

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### 3.1.3 TALLY

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Your Vizrt Connect Solo unit provides 'tally' notification from NDI devices supporting it. Specifically, a row of LEDs will light up in red or green to tell you when video output from the device is visible on the Program output or Preview row of a video switcher respectively, as illustrated above.

*Note: Viz Connect Solo provides an additional tally light on the back panel.*

## *APPENDIX A: CREDITS*

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Special thanks to each member of the hard-working R&D team who made this product possible.

**Third Party Licenses:**

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