



NC30 NDI Converter

— User Manual —

Federal Communication Commission Interference Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

The 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.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

PoE

The PoE port is connected only to PoE networks without routing to the outside plant.

PSTI Statement of Compliance

Please refer to the following website: <https://www.aver.com/product-security-advisory>

VCCI-A

この装置は、クラス A 機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

(注) 本製品同梱の電源ケーブルは、本製品同梱の電源アダプタでのみ使用してください。

本製品同梱の電源ケーブルは、他の電気機器では使用できません。

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More Help

For FAQs, technical support, software and user manual download, please visit:

Non-USA

Download Center: <https://www.aver.com/download-center>

Technical Support: <https://www.aver.com/technical-support>

USA

Download Center: <https://www.averusa.com/pro-av/support/>

Technical Support: <https://averusa.force.com/support/s/contactsupport>

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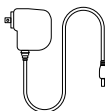
 Supported AVer Devices 29

Overview

Package Contents



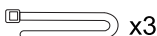
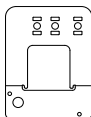
NDI® Converter



Power Adapter &
Power Plug



Quick Start Guide

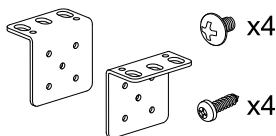


Cable Fixing Plate Installation Kit

Cable Fixing Plate

3.0 x 5 mm Flat Head Screws (x2)

Cable Ties (x3)



Rack Mount Installation Kit

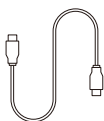
Mount Brackets (x2)

3.0 x 5 mm Truss Head Screws (x4)

M3 x 10 mm Screws (x4)

* The rack mount installation kit can be used for both desk and wall mount installation.

Optional Accessories

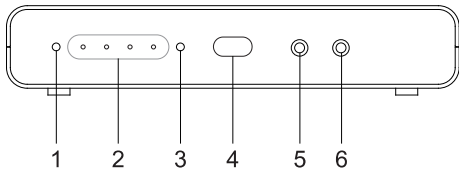


USB 3.2 Gen 1 C to C

Cable (1.5 m/4.92 ft)

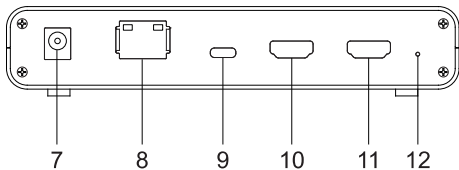
* For optional accessories, please contact your local dealer.

Parts Info



Front View

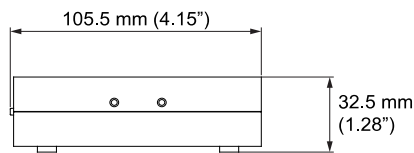
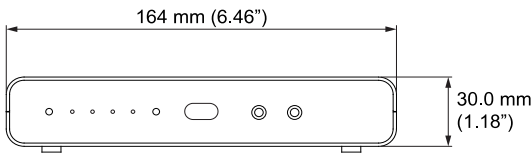
- 1. Power Button
- 2. LED Indicators
- 3. Source Switch Button
- 4. NDI Tally
- 5. Audio In Port
- 6. Audio Out Port



Back View

- 7. 12V DC Power Jack
- 8. NDI HX PoE Port
- 9. USB-C Port
- 10. HDMI® In Port
- 11. HDMI Out Port
- 12. Reset Button

Dimensions



LED Indicators

LED	Color	Status
STATUS	Flashing orange	Start-up
	Solid green	Operational
	Solid orange	Standby
	Flashing orange once	Switching NDI sources
	Flashing red	Firmware update
USB OUT	Solid green	Connected to USB device
	Flashing green	Streaming over USB
HDMI IN	Solid green	Connected to HDMI device
HDMI OUT	Solid green	Connected to HDMI device

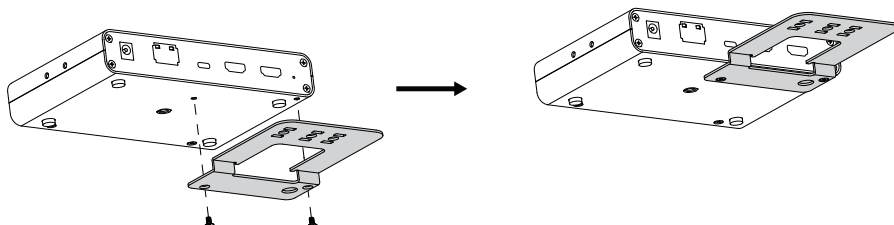
NDI Tally

Color	Status	Description
Solid red	Program (PGM)	On-air. The source is live or being recorded.
Solid green	Preview (PVW)	Cued. The source is in preview.
No light	Off	No source.

Installation

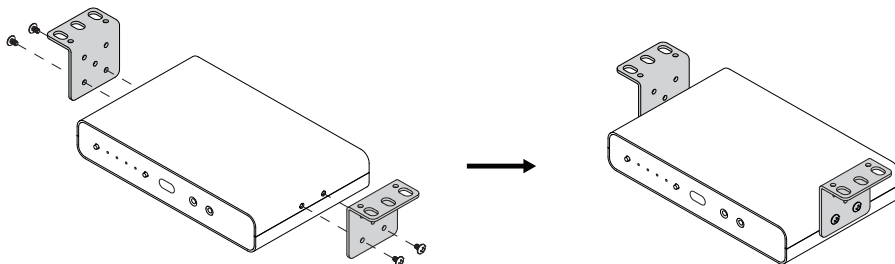
Cable Fixing Plate Installation

1. Secure the cable fixing plate to the device with the included 3.0 x 5 mm truss head screws (x2).
2. Connect the cables.
3. Use the cable ties to secure the cables and cable fixing plate.

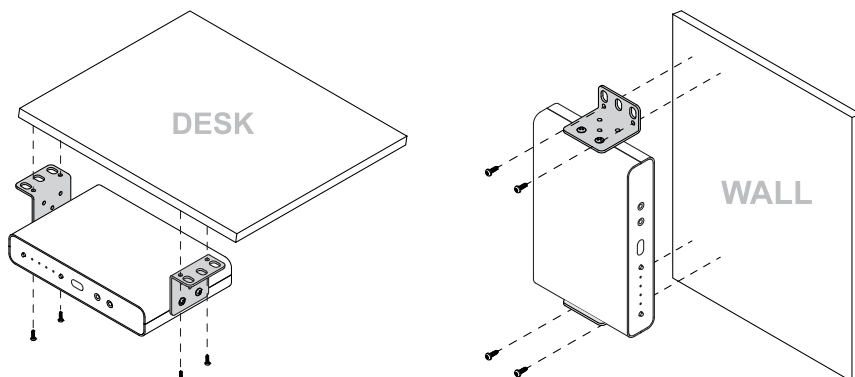


Rack Mount Installation

1. Secure the rack mount brackets to the device with the included 3.0 x 5 mm truss head screws (x4).

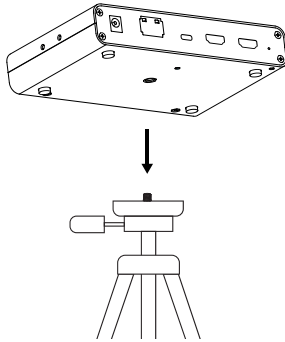


2. Install the rack mount brackets and device under the desk or on the wall with the included M3 x 10 mm screws (x4).



Tripod Mount Installation

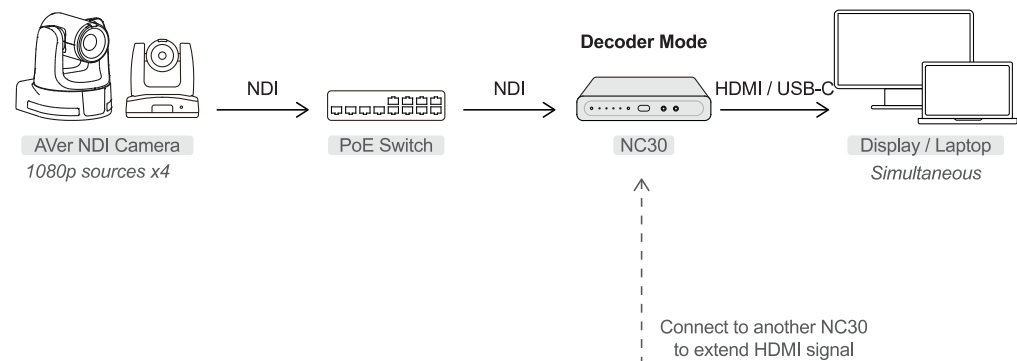
1. Locate the 1/4 inch tripod thread on the bottom of the device.
2. Secure the device on your tripod or camera by twisting it into the 1/4 inch thread.
(1/4"-20 UNC screw not included)



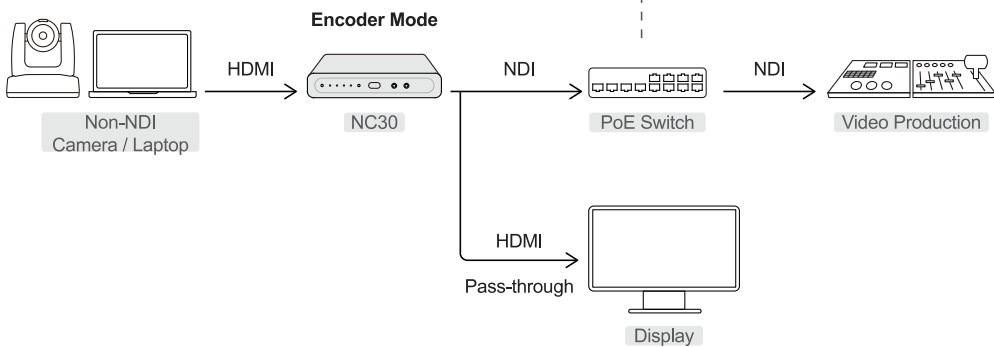
Connections

Note: PoE power requirements vary by camera model. Check your camera's specifications to confirm the required PoE standard (PoE, PoE+, or PoE++), and ensure your network switch supports that power level.

- As a Decoder (Default)**



- As an Encoder**



Get Started

Power Your Device

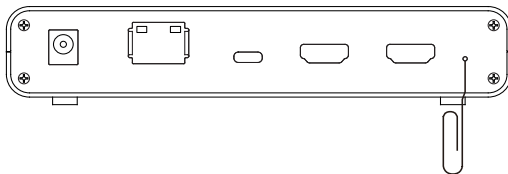
Your device can be powered via PoE or DC power.

When using PoE, the network switch to which the device is connected must support PoE.

The device automatically powers on when connected to power. No need to press the **power** button. Press and hold for 5 seconds to enter Standby Mode. Press once to wake up.

Reset Your Device

Insert a paper clip into the reset hole, push in and hold for 5 seconds to reset the device to factory default settings.



Access the Web Interface

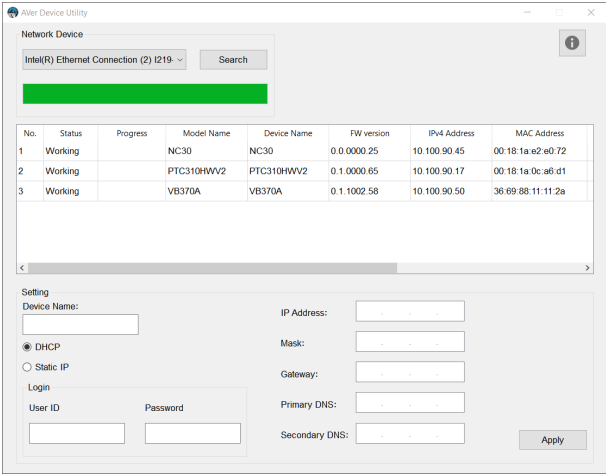
To access the web interface of the device, you can use any of the following software to find its IP address:

- AVer Device Utility
- AVer Enterprise Management

Note:

- The default network setting is DHCP.
- The default username and password is **admin/admin**.

AVer Device Utility



To access the web interface:

1. Download AVer Device Utility from AVer Download Center (<https://www.aver.com/download-center>) and launch the software.
2. Click **Search** to see available devices on the same local area network (LAN).

Note:

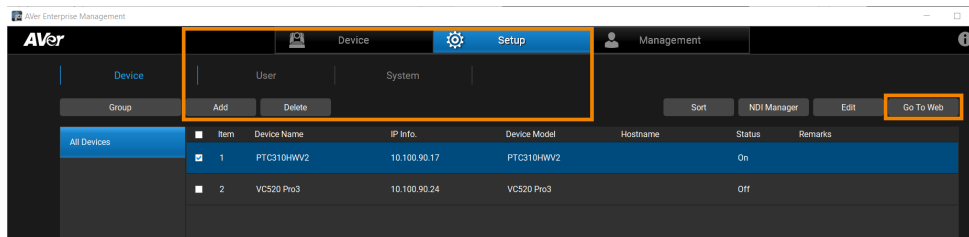
- Make sure your device is connected to the internet.
- AVer Device Utility and your device must be on the same LAN.

3. Double-click on your device's IP address in the **IPv4 Address** column to open the web interface in your browser.

To change your network to DHCP or static IP:

1. Select the checkbox of your device.
2. Enter the username and password in the **Login** field.
3. Select **DHCP** or **Static IP**, then enter your network settings if applicable in the **Settings** section.
4. Click **Apply**.

AVer Enterprise Management



Note: AVer Enterprise Management default username and password is **admin/admin**.

To access the web interface:

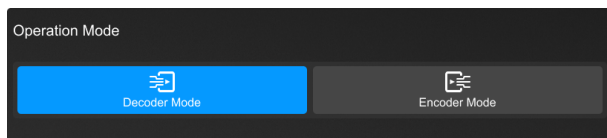
1. Download AVer Enterprise Management from AVer Download Center (<https://www.aver.com/download-center>) and launch the software.
2. Log in with the default username and password **admin/admin**.
3. Go to **Setup > Add**, then click **Auto Search** to see available devices on the same local area network (LAN).
4. Click to select your device, enter the username and password, then click **Save** to add the device to the device list.
5. Select the checkbox of your device, then click **Go to Web** button to open the web interface in your browser.

Log in for the First Time

When you log in for the first time, you'll be prompted to change the username and password. The username and password cannot be the same.

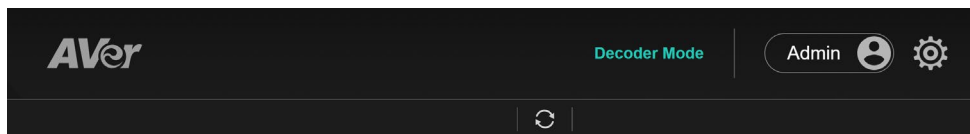
- Username: Use 1-32 characters.
- Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, and, numbers. Symbols (!\$%')*+,-./<=>?@[]^_{}~) are optional.

Switch between Operation Modes



You can use your device as either a decoder (default) or an encoder. To select a mode, open the web interface and go to **Video & Audio > Operation Mode**.

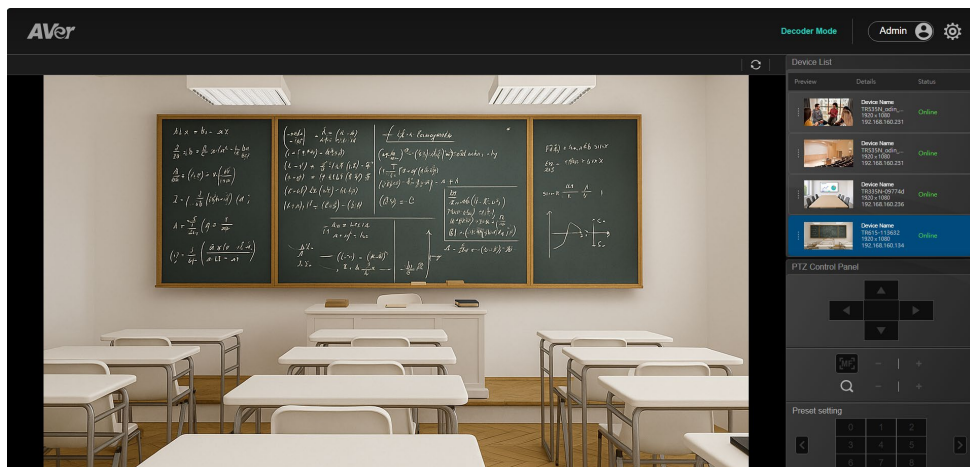
Web Interface



From left to right:

1. **Reset** 
Reset the converter to factory default settings
2. **Operation Mode**
Shows current operation mode.
3. **Account**
Switch between Admin and User roles.
Users can add devices, use PTZ controls, and see live views but cannot modify settings.
4. **Settings** 
Add devices, switch operation modes, and manage system settings.

Decoder Mode Interface



You can add up to four 1080p video sources via IP, drag and drop to switch between sources, load camera presets, or control the camera's PTZ functions.

Add, Edit or Delete Devices

To add devices:

- 1. Open the Decoder Mode interface.
- 2. Go to **Settings**  > **Device** > **Add Device**.
- 3. Fill in the **Add New Device** dialog.

NDI Group Name	Enter NDI group name.
IP Address	Click Auto Search to search for available device on the same LAN or enter the IP address.
Device Channel (Device ID)	Displays the name in the NDI source device's Device Channel (Device ID) field.
Device Name	Enter the name you want to display on the Device List.

- 4. Click **Save**.
- 5. The added device will appear on the Device List. You can find the Device List in two places:



Right side of the interface



Go to **Settings**  > **Device**

To edit or delete devices:

- 1. Hover the cursor over a device.
- 2. Click the **pencil icon**  to edit a device. Or click the **trashcan icon**  to delete the device.

Device list

Add device



Device Name

TR535N_odin_PTZ

1920 x 1080

192.168.160.231

Online



Switch Input Sources

Use your mouse to drag a device from the right side of the interface onto the live view to switch the input source. The current input source will be highlighted in blue.

Or use the source switch button on the front of the device to cycle through input sources.

Note:

- When the maximum output resolution is set to 4K (Video & Audio > Video Output Resolution), switching input sources will first disconnect the current signal and then reconnect to the new one, regardless of the actual video resolution.
- When the maximum output resolution is set to 1080p, switching between input sources is seamless.

Device List		
Preview	Details	Status
	Device Name TR535N_odin_... 1920 x 1080 192.168.160.231	Online
	Device Name TR535N_odin_... 1920 x 1080 192.168.160.231	Online
	Device Name TR335N-09774d 1920 x 1080 192.168.160.236	Online
	Device Name TR615-113632 1920 x 1080 192.168.160.134	Online

Encoder Mode Interface



The Encoder Mode interface displays:

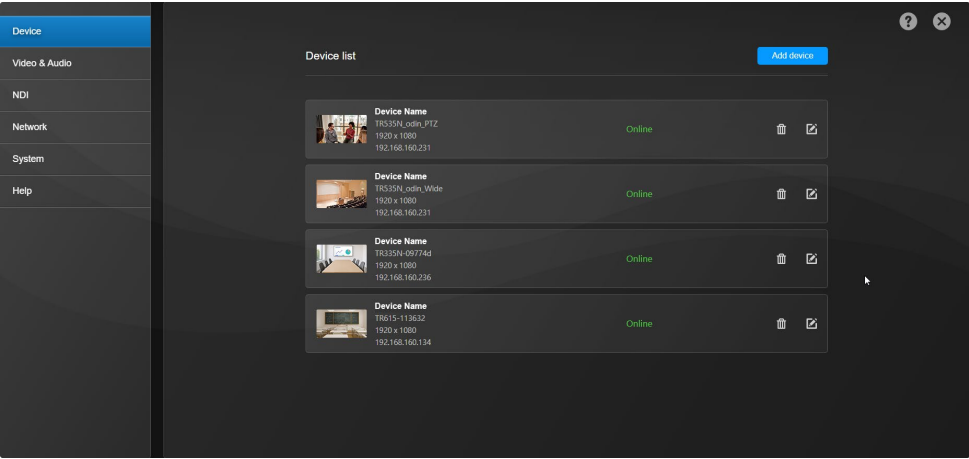
1. HDMI input resolution
2. Audio source
3. HDMI input live view

HDMI Input Resolution:
2160p/60

Audio Source:
HDMI

System Settings

Device



View the live feed, name, resolution, and IP address of all added devices.

You can also [add up to 4 devices](#) here.

Video & Audio

Operation Mode

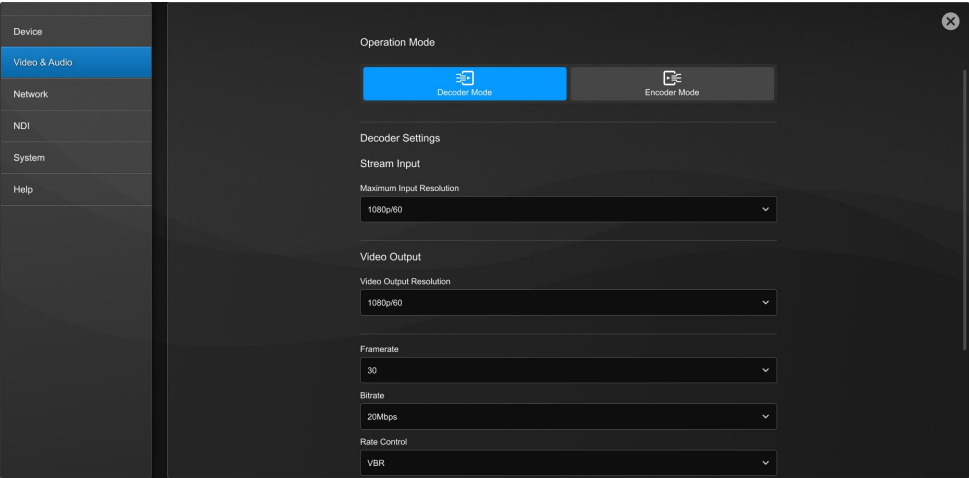


Select the converter's operating mode. The default is Decoder Mode.

Video Output Resolution

Output Interface	Video Format / Protocol	Decoder Mode (Default)	Encoder Mode
NDI	—	720p30	4K60
RTSP	—	720p30	4K60
HDMI	—	4K60	4K60
USB-C	MJPEG	2160p: 60, 30, 15 1080p: 60, 30, 15 720p (default): 60, 30, 15	
	YUV2	1080p: 30, 15 720p: 30, 15 360p (default): 30, 15	

Decoder Settings



Stream Input

Item	Description
Maximum Input Resolution	Select the maximum input resolution for the NDI stream.

Video Output

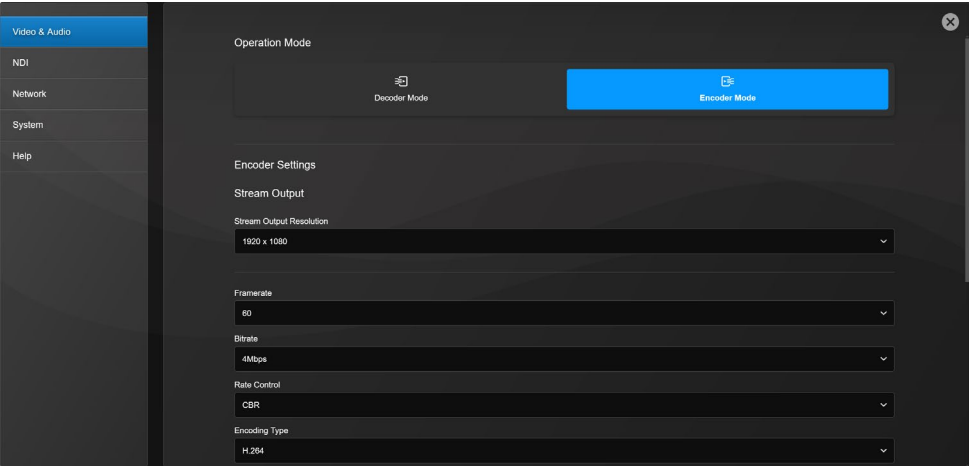
Item	Description
Video Output Resolution	Select the maximum output resolution for the HDMI/USB video. Default: 1080p/60 Note: - When the maximum output resolution is set to 4K, switching input sources will first disconnect the current signal and then reconnect to the new one, regardless of the actual video resolution. - When the maximum output resolution is set to 1080p, switching between input sources is seamless.
Bitrate	Select a bit rate. Default: 4Mbps
Rate Control	Select Constant Bit Rate (CBR) or Variable Bit Rate (VBR). Default: CBR

I-VOP Interval (S)	Sets how often a keyframe (or I-frame) is inserted in the video stream. • A keyframe is a full image frame used as a reference point in video. Shorter intervals improve video quality, but increase file size. Default: 1s
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Audio Settings

Item	Description
Input Source Select	When the input source is set to analog, select mic in or line in.
Analog	
Volume	Adjust the volume.
Audio Delay	Adjust audio delay.

Encoder Settings

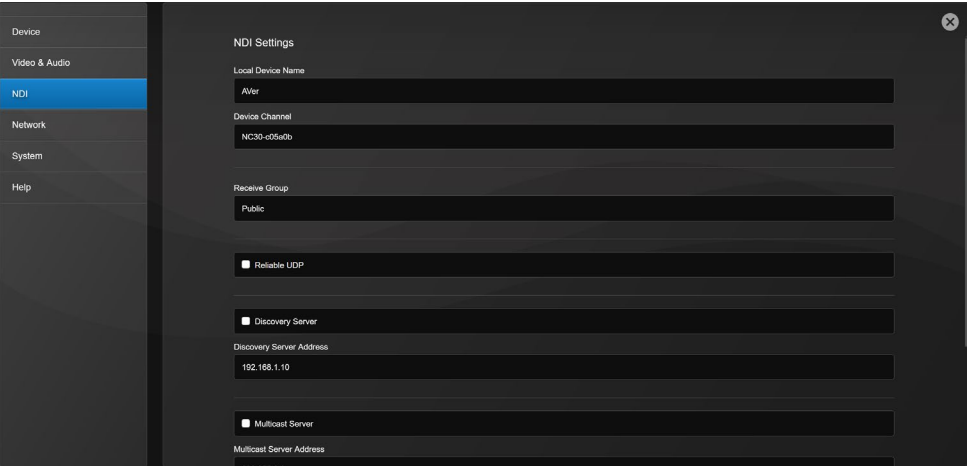


Stream Output

Item	Description
Resolution	Select the maximum output resolution for the NDI/RTSP streams. Default:1920 x 1080 Note: This setting only affects NDI/RTSP outputs. • NDI/RTSP: Routed through the NC30, so resolution is controlled by the web UI. • UVC: Resolution is controlled by the host computer. • HDMI Pass-through: Resolution is unchanged from the source.
Framerate	Select a framerate. Default: 60
Bitrate	Select a bit rate. Default: 4Mbps
Rate Control	Select Constant Bit Rate (CBR) or Variable Bit Rate (VBR). Default: CBR
Encoding Type	Select H.264 or H.265. Default: H.264
I-VOP Interval (S)	Sets how often a keyframe (or I-frame) is inserted in the video stream. • A keyframe is a full image frame used as a reference point in video. Shorter intervals improve video quality, but increase file size. Default: 1s

Audio Settings

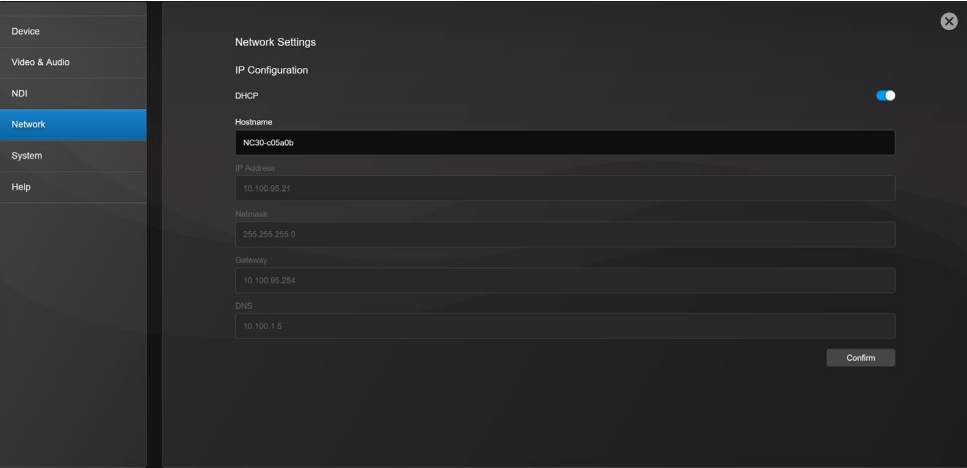
Item		Description
Input Source Select		When the input source is set to analog, select mic in or line in.
Analog		
Volume		Adjust the volume.
Audio Delay		Adjust audio delay.



Item	Description
Local Device Name	Enter a name that identifies your device on the NDI software. The default is Aver.
Device Channel	Enter a name that identifies your NDI stream on the NDI software. - The default is [Model name]-[last 6 digits of MAC Address]. - Use no more than 10 characters, upper and lowercase letters, numbers and punctuation marks (! @ % ^ , . / : + ? [] { } - _ ~).
Receive Group	Enter a name for a receive group. - All devices in the receive group receive the same NDI streams. - The receive group should remain public. If this is changed, you will need to join the group through NDI® Access Manager.
Reliable UDP	Enable Reliable User Datagram Protocol (RUDP) to improve streaming quality.
Discovery Server	Select the checkbox to enable discovery server to allow devices to discover and connect to each other on a network automatically.
Discovery Server Address	Enter the IP address of a server running a discovery server application.
Multicast Server	Select the checkbox to enable multicast server to allow efficient distribution of NDI streams to multiple receivers without overwhelming the network.
Multicast Server Address	Enter the IP address of a group of recipients that receive NDI

	streams from a multicast server.
Multicast Server Mask	Enter the network mask to specify the range of IP addresses that are eligible to receive NDI streams.
Multicast TTL	Enter a multicast time to live (TTL) value between 1-255 to control the distance multicast packets can travel.

Network



IP Configuration

Item	Description
DHCP	Toggle DHCP on or off.
Hostname	Enter a hostname that is displayed on devices such as an IP router. The default is [Model name]-[last 6 digits of MAC Address].
IP Address	Toggle off DHCP first, then enter your network settings to set up a static IP connection.
Netmask	
Gateway	
DNS	

RTSP Settings

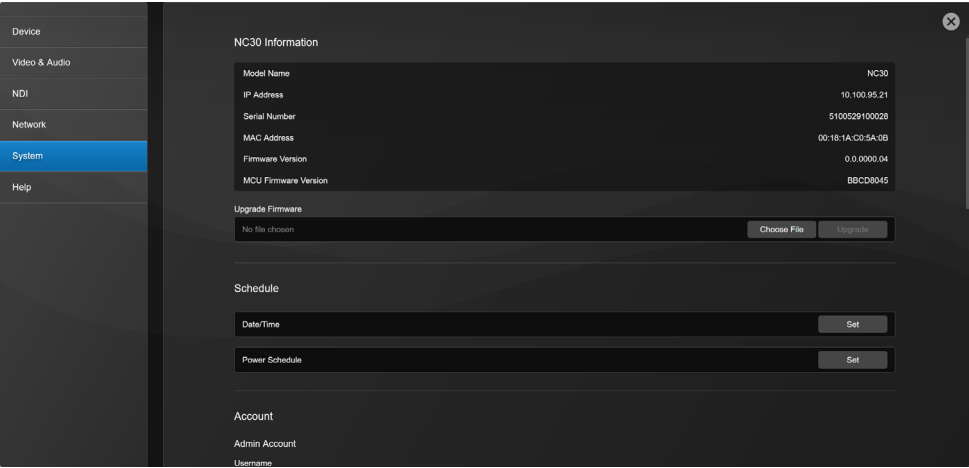
Item	Description
RTST Security	Turn on Real-Time Streaming Protocol (RTSP) Security to protect your video stream on media players such as VLC, PotPlayer and QuickTime by ensuring that only authorized users can access it. - When RTSP Security is turned off, enter your camera's RTSP URL into the media player. RTSP URL: rtsp://[camera IP address]/live_st1 Example: rtsp://192.168.1.100/live_st1 - When RTSP Security is turned on, enter your camera's RTSP URL and username/password into the media player.

	RTSP URL: rtsp://[username:password]@[camera IP address]/live_st1 Example: rtsp://1:1@192.168.1.100/live_st1 username/password: camera's username/password (web interface login)
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HTTP Settings

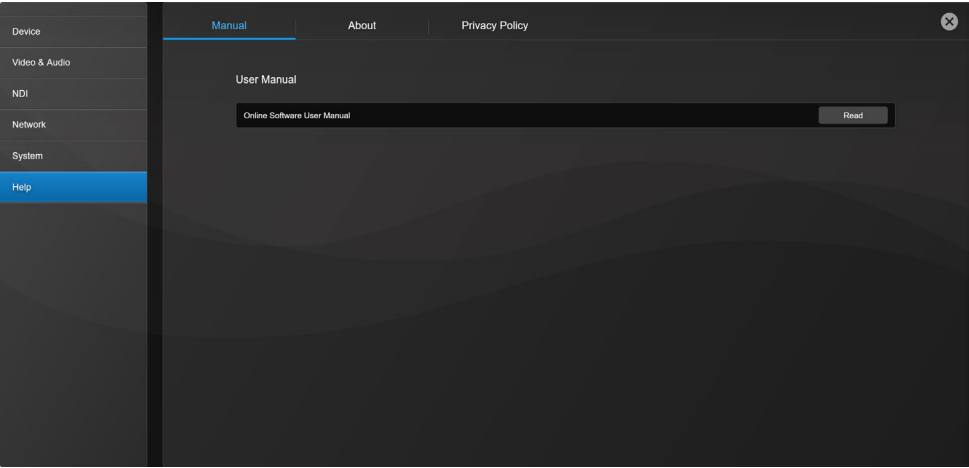
Item	Description
TCP Command String Control Port	Set a control port number. The default is 1315.
HTTPS	Enable HTTPS to establish a secure connection between your browser and your camera. To enable HTTPS access on your camera: 1. Obtain a SSL certificate for encryption and decryption in base-64 encoded format and use a private key in PKCS#8 format (unencrypted). 2. Package the required certificate content into PEM format. The SSL certificate uploaded to the camera must be in PEM format. 3. Click Browse to select the certificate file, and then click Upload. 4. Turn on HTTPS.

System



Item	Description
NC30 Information	Display the device information such as the IP address.
Upgrade Firmware	Download the latest firmware from AVer Download Center (https://www.aver.com/download-center).
Schedule	Date/Time: Set date and time for your device. Power Schedule: Schedule specific times for your device to start up, reboot, or shut down.
Account	Edit your admin and user account for login. - Admin: The default username/password is admin/admin. - User: The default username/password is user/user.
General	- Language: Change the web interface language. - Allow anonymous usage data: Opt-in or opt-out of providing anonymous usage data. - Factory default: Erase all data and settings and reset the device to factory default settings. - Reboot System: Restart your device.
Export / Import Settings	Export or import your device settings and save debug files.

Help



Item	Description
Manual	View user manual online.
About	View terms and conditions.
Privacy Policy	View privacy policy.

Specifications

Video	Video input signal (Encoder)	HDMI (4K60)
	Video input signal (Decoder)	NDI HX 2/3
	Video output signal (Encoder)	HDMI (4K60), USB-C (4K60), NDI (4K60), RTSP (4K60)
	Video output signal (Decoder)	HDMI (4K60), USB-C (4K60), RTSP (720p30) Note: HDMI/USB-C outputs are limited to 30 fps when H.265 4K60 and USB-C are active.
	HDMI pass-thru	Yes, in Encoder mode
	NDI	Decode: NDI HX2/3 Encode: NDI HX2
	Max camera (NDI) sources	Decoder: UP to 4 streams (1080p60), 1 stream (4K60) Encoder: 1 stream (4K60)
Audio	Audio input	HDMI/3.5mm (Encoder Mode), NDI/3.5mm (Decoder Mode)
	Audio output	HDMI/3.5mm/USB/NDI/RTSP
	3.5mm	Audio in (mic in/line in), Audio out
Physical Interface	LED indicators	Status LED (Status / USB OUT / HDMI IN/ HDMI OUT)
	Push button	Yes, press to switch source
	Tally	Green: Preview (PVW) Red: Program (PGM) Off: No signal
	I/O	Front: Power Button, Switch Button, 3.5mm (2) Rear: DC 12V, NDI/HX (PoE), USB-C, HDMI IN, HDMI OUT, Reset
Software	Enterprise Management	Support Windows® 10 or later
	Cloud Management	Support Google Chrome™, Microsoft Edge
	Room Management	Support Windows® 10 or later
	Device Utility	Support Windows® 10 or later
General	Dimension	164 mm x 104 mm x 30 mm 164 mm x 105.5 mm (1.5mm button) x 32.5 mm (2.5 mm feet)
	Weight	600g±10%
	Power source	PoE, DC
	Operating temperature	0 °C~+40 °C
	Storage temperature	-20 °C~+60 °C

	Cable fixing plate	Yes
	Package content	Power Adapter & Power Plug, Cable Fixing Plate Installation Kit, Rack Mount Installation Kit, Quick Start Guide
	Optional accessories	USB-C to USB-C cable (1) (P/N: 1.5M, 064AUSB--CR5)
	Warranty	5 years

Specifications are subject to change without prior notice.

Appendix

Supported AVer Devices

Professional Tracking Cameras

- Single Len

TR211

TR315

TR315N

TR335

TR335N

TR615

Professional PTZ Cameras

PTZ211

PTZ231

PTZ310UV2

PTZ310UNV2

PTZ330UV2

PTZ330UNV2

Video Conferencing Cameras

CAM520 Pro3

VC520 Pro3

CAM550

VC550

CAM570