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LINDY 38519 4K60 HDMI Over IP Streaming Encoder



Product Usage Instructions

- Connect the HDMI input source to the encoder using an HDMI cable.
- Connect the encoder to the network using an Ethernet cable.
- Connect the power adapter to the encoder and plug it into a power source.
- You can manage information and features using the following methods:
- OLED Screen: Use the front panel OLED screen for easy management.
- Web GUI: Access the web GUI for more detailed configurations.
- APIs: Integrate with a 3rd party control system for advanced control.

Introduction

- Thank you for purchasing the 4K60 HDMI® over IP Streaming Encoder. This product has been designed to provide trouble-free, reliable operation. It benefits from both a LINDY 2 year warranty and free lifetime technical support. To ensure correct use, please read this manual carefully and retain it for future reference.
- This Encoder is designed to stream AV content over IP networks using the H.265 or H.264 video compression standard to popular services, including YouTube, Facebook Live, Twitch or custom-specified servers, Stream standards supported are RTSP/UDP, RTSP/TCP, RTP/UDP, TS/UDP, RTMP/RTMPS and SRT.
- It supports compressed video resolutions up to 3840×2160@60Hz 4:4:4, one HDMI loop out port, analogue embedded and de-embedded audio ports.

- Information and features can be easily managed over the OLED screen on the front panel, via web GUI or through the APIs from a 3rd party control system, ideal for using in professional AV, broadcasting, digital signage, video conferencing, and live streaming applications.

Safety Instructions

WARNING!

Please read the following safety information carefully and always keep this document with the product.

Failure to follow these precautions can result in serious injuries or death from electric shock, fire or damage to the product.

Touching the internal components or a damaged cable may cause an electric shock, which may result in death.

This device is a switching type power supply and can work with supply voltages in the range 100 – 240 VAC. For worldwide usability four different AC adapters are enclosed: Euro type, UK type, US/Japan type and Australia/New Zealand type. Use the appropriate AC adapter as shown in the picture and ensure it is firmly secured in place and does not detach by pulling before installing into a power socket.

To reduce risk of fire, electric shocks or damage:



- Do not open the product nor its power supply. There are no user-serviceable parts inside.
- Only qualified servicing personnel may carry out any repairs or maintenance.
- Never use damaged cables.
- Do not expose the product to water or places of moisture.
- Do not use this product outdoors; it is intended for indoor use only.
- Do not place the product near direct heat sources. Always place it in a well-ventilated place.
- Do not place heavy items on the product or the cables.

- Please ensure any adapters are firmly secured and locked in place before inserting into a wall socket

Safety and Health Information: LINDY products are designed for safe, effective use. Please review this guide for essential safety, health information, and details on the Limited Warranty for your product. Following these setup, usage, and care instructions enhances comfort, productivity, and safety. Failure to adhere to these guidelines may result in electric shock, fire, serious injury, or damage to the product or property. Additional support is available at lindy.com.

Warning: Keep out of reach of children. LINDY products and accessories are not toys and should not be handled by young children, as they may cause injury or damage

Suffocation Hazard: For products containing or supplied in plastic bags, keep bags away from babies and children to prevent suffocation.

User Manual

- **Power Supply Safety:** Applies to products using an AC power supply. Use only the original or compatible AC power supply specified for your product. Failure to follow this guidance may result in electric shock, fire, serious injury, or product damage.
- **Proper Usage:** Keep the device away from moisture, including rain, snow, or water, and avoid placing it near heat sources, food, excessive dirt, dust, oil, chemicals, or direct sunlight. For devices with ports, avoid inserting objects, allowing dust to accumulate, or using heat sources like hair dryers or microwaves to dry it. If the device becomes wet, gently wipe the exterior with a dry cloth.
- **High-Risk Use:** This product is not intended for applications where failure could lead to death, serious injury, or significant environmental harm (“high-risk use”). Use in such applications is solely at your own risk.
- **Explosive Atmospheres:** Do not store or transport flammable or explosive materials alongside this product or its accessories. Always unplug and power off the product and avoid charging in areas with potentially explosive atmospheres.
- **Cable Connectors and Ports:** To prevent shock or fire when using connectors with a power supply, avoid contact during use. Keep connectors free from moisture, dirt, and contaminants. Discontinue use and contact support if any connector appears damaged.

- **Cleaning:** To minimize risks of fire, electric shock, or product damage, unplug all cables and power off the device and accessories before cleaning. Use a dry cloth to clean the exterior only. Avoid inserting objects into ports, and do not immerse connectors in liquids; instead, wipe and dry them thoroughly.
- **Risk in Repairs:** Attempting to open or repair this product may expose you to risks of electric shock, fire, or injury. LINDY strongly recommends using professional repair services, as unauthorized repairs may void your warranty.

CAUTION

- **Skin Irritation:** This product contains materials commonly used in electronics that may cause skin irritation for some users. To reduce this risk, clean your device regularly, avoid applying lotions near contact areas, and discontinue use if irritation occurs. Consult your health care provider if symptoms persist.
- **Cable Safety:** Exposed cables can pose a tripping hazard. Arrange cables to prevent tripping or pulling risks and protect them from crushing, sharp bends, and heat exposure. Regularly inspect cables and discontinue use if damaged. Unplug cables during lightning storms or for long-term storage.

NOTICE

- **Heat-Related Concerns:** The product may become warm during regular use. Avoid prolonged skin contact, ensure adequate ventilation, and use in well-circulated areas to prevent overheating and discomfort.
- **Personal Medical Devices:** Electronic emissions and magnetic fields from LINDY products may unintentionally interfere with medical devices, despite regulatory compliance. If you suspect interference, turn off the product immediately. For guidance on using electronic devices nearby, consult the manufacturer of your medical device or your healthcare provider.
- **Handling:** Handle your LINDY product with care. The product may be damaged if dropped, punctured, or exposed to liquid. If damage is suspected, stop using the product to prevent potential hazards.

Instructions for Use of Power Supply

To connect the adapter

- Slide the desired plug adapter into the power supply until it locks into place.

To remove the adapter

- Press the push button latch.
- While pressed, remove the adapter.



Package Contents

- HDMI® over IP Streaming Encoder
- 2 x Mounting Ears & 4 x Screws
- 12VDC 1A Multi-country Power Supply (UK, EU, US & AUS), Screw Type DC Jack: 5.5/2.1mm
- Lindy Manual

Features

- Support resolutions up to 3840×2160@60Hz 4:4:4 8bit
- 3 streams supported: H264/H265 4K60, H264 1080p 30Hz and JPEG 1280×720 5Hz
- Support RTSP/UDP, RTSP/TCP, RTP/UDP, TS/UDP, RTMP/RTMPS, SRT stream standards
- Stream control (play/pause/stop)
- Video bitrate, resolution, frame rate, and EDID configurations

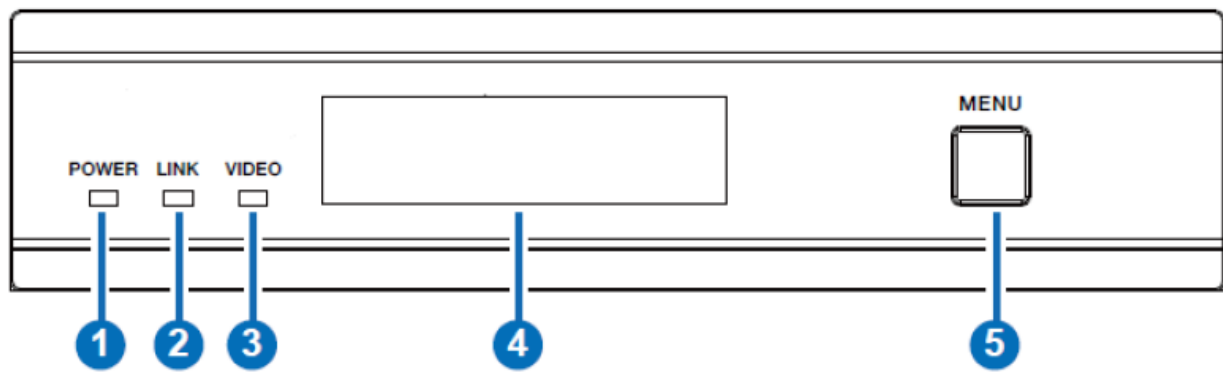
- Audio formats LPCM 2CH (48KHz), with only stream and delay settings
- 100/1000 Ethernet port with PoE (Power over Ethernet 802.3af standard)
- Analog Audio In & Out for embedding and extraction
- Flexible control through OLED screen display, Web GUI, TCP, TELNET/SSH and 3rd-party API control
- Support unicast and multicast
- Screw Type DC Jack for a secure power connection

Specification

- 2.0b, 18Gbps Compliant
- HDCP 2.2/1.4
- Transmission distance: 100m (Cat.. 6/6A/7)
- Video compression standard: H264/H265
- Network Video Bandwidth: 1G
- Analogue Audio parameters: Output impedance: 330Ohms Line Input / Output Level (Maximum): 2Vrms Frequency Response: (+0.5dB, -1dB) 20Hz to 20KHz Audio S/N Ratio: >90dB@2Vrms, 1KHzA-weighted Audio THD+N: <0.05%@2Vrms, 1KHz
- PoE Standard: 802.3af
- ESD Protection: $\pm 15\text{kV}$ (air-gap discharge)
- Human Body Model: $\pm 8\text{kV}$ (contact discharge)
- Operating Temperature: 0°C – 40°C (32°F – 104°F)
- Storage Temperature: -20°C – 60°C (-4°F – 140°F)
- Relative Humidity: 20 – 90% RH (Non-condensing)
- Metal Housing
- Colour: Black
- Power Requirements: AC100-240V 50/60Hz
- Power Consumption: 7.2W

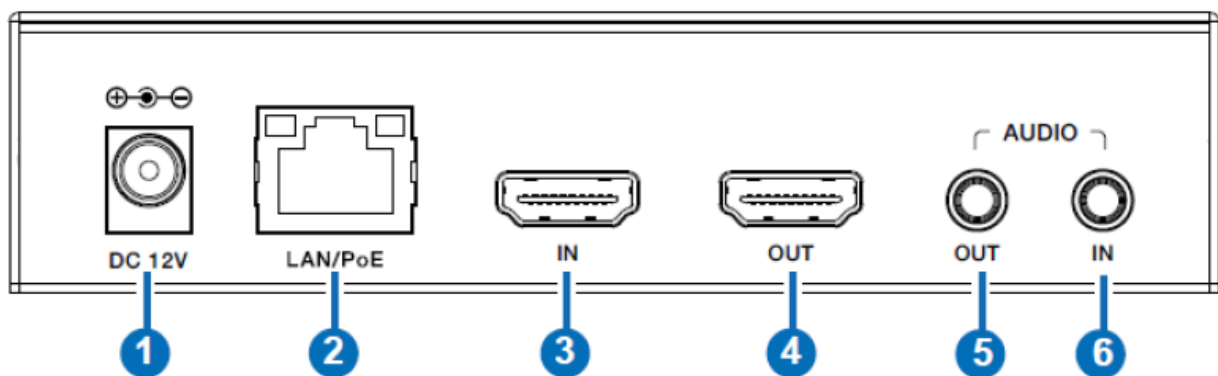
Installation

Front Panel



1. POWER LED: Indicates power.
2. LINK LED: This will illuminate when there is a network connection, and will flash when the stream is in progress.
3. VIDEO LED: This will illuminate when the signal is active, and will flash when the signal transmission is not supported.
4. OLED display: Menu features, device name and IP address are shown in this screen. after 60 seconds the display goes in sleep mode; to turn it on again and browse, press MENU button.
5. MENU button: short press to turn on the OLED display and browse the menu, keep it pressed for 10 seconds to restore the unit to factory default settings.

Rear Panel



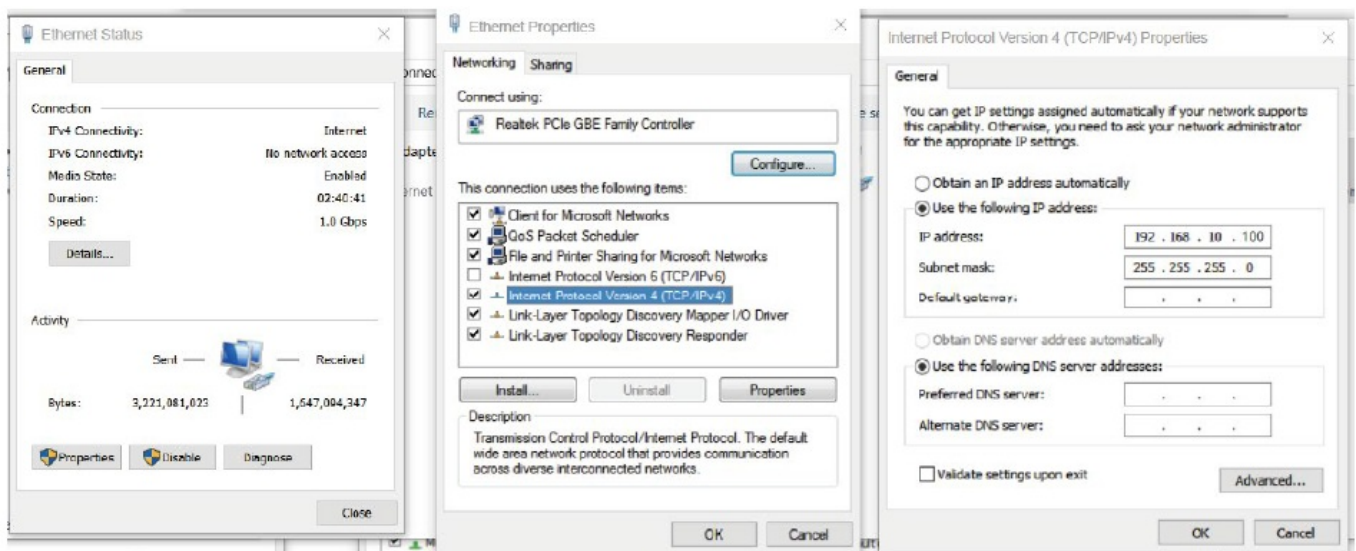
1. DC 12V: Connect the 12V DC 1A PSU to an AC wall outlet and securely connect to the unit.
2. LAN/PoE: 1G network port supporting PoE 802.3af standard.
3. IN: Connect to an HDMI® source device.
4. OUT: Connect to a HDMI® local display (if required).
5. AUDIO OUT: Output the audio signal extracted from the HDMI® IN port.
6. AUDIO IN: Audio embedding port used for audio streaming, the HDMI® OUT port

maintains the audio from the HDMI® IN port.

Operation

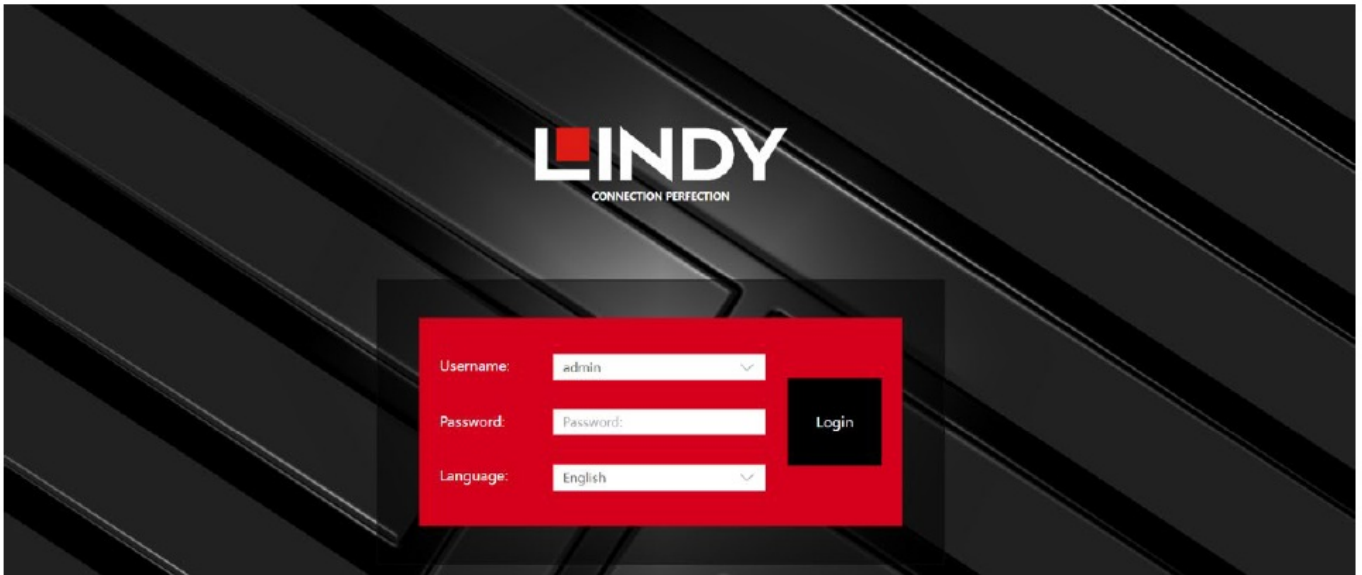
This AV Encoder can provide RTSP/RTMP/RTMPS stream service through the network. Please follow the steps below to build the platform.

1. Connect the AV Streamer to an HDMI® source, display, audio input and output devices, then connect it to a 1G network switch with an internet connection.
2. Power on the AV streamer, and the OLED display will show the default IP address 169.254.1.11.
3. Set the PC's IP address in the same network segment of the AV Streamer.



Web GUI

- Open a web browser and enter the current IP address of the unit to access the web GUI.



- Default Username can be admin or user:
- Username: admin
- Password: admin
- Username: user
- Password: 123456
- Click Login to access the GUI.

Important: Change the Default Password Immediately

To protect your product and personal data, you must change the default password as soon as possible after setup.

This product complies with the UK Product Security and Telecommunications Infrastructure (PSTI) Regulation, which requires that all default passwords be unique or generated per device. However, to maintain the highest level of security, it is essential that you set your own strong and memorable password.

How to Change Your Password:

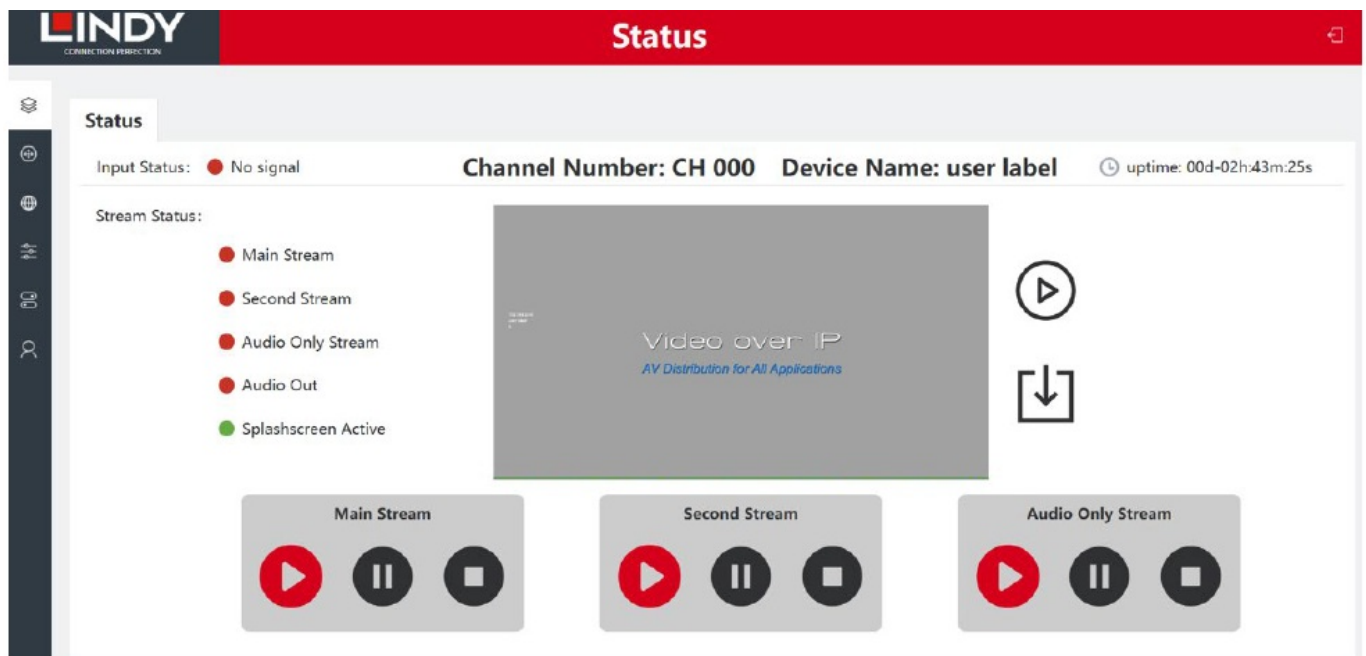
1. Power on the device and connect to it using the setup application or web interface.
2. Log in using the default credentials as above.
3. Navigate to Admin > Web Login Settings.
4. Enter your current password, then enter your new password twice to confirm.
5. Save your changes and log in again using the new password.

Tips for a Strong Password:

- Use at least 8 characters (we recommend 12+)
- Include uppercase and lowercase letters
- Add numbers and special characters (!, @, #, etc.)
- Avoid common words or personal information

Failure to change the default password may expose your device to security risks. If you need assistance, please contact our customer support team.

Status



- Input Status: Red dot means no signal, Green dot means that there is an active input signal and will show its video and audio formats.
- Channel Number: channel number of the device.
- Device Name: name of the device.
- Uptime: shows the running time of the device.
- Stream Status:
 - Main Stream: Red= stream is in STOP status; Orange stream is in PAUSE status; Green= stream is in ACTIVE status.
 - Second Stream: Red= stream is in STOP status; Orange= stream is in PAUSE status; Green= stream is in ACTIVE status.
 - Audio Only Stream: Red= stream is in STOP status; Orange stream is in PAUSE

status; Green= stream is in ACTIVE status.

- Audio Out: Red= no audio output; Green= audio output is active.
- Splashscreen Active: Red= splashscreen not active; Green= splashscreen is displayed.
- Main Stream/Second Stream/Audio Only Stream control buttons: Play, Pause and Stop control buttons.
- The window in the center displays the captured picture: click on Play/Pause button on the right to play the signal (with a refresh frequency rate of 5Hz) and to freeze the signal; click on the download button to download the captured picture on the PC.

The screenshot shows the LINDY Encoder web interface. The top header is red with the LINDY logo and the word "Encoder". A sidebar on the left contains icons for various functions. The main content area is divided into three sections: Main Encoding Setting, Second Encoding Setting, and Audio Setting. Each section contains several configuration options with dropdown menus and input fields.

Main Encoding Setting	
Encoding Type:	H264
Encoding Resolution:	Same as Input
Frame Rate(Hz):	60 [5-60]
GOP:	60 [5-300]
Bitrate Control:	VBR
Bitrate(kbit):	20000 [32-82000]
Level:	Baseline

Second Encoding Setting	
Encoding Resolution:	1920x1080
Frame Rate(Hz):	30 [5-30]
GOP:	60 [5-300]
Bitrate Control:	VBR
Bitrate(kbit):	10000 [32-32000]
H264 Level:	High

Audio Setting	
Audio Encoding:	PCM
Audio Source:	HDMI
Sample Frequency(kHz):	0

Main Encoding Setting

- Encoding Type: select the main stream encoding type, 264 or H265.
- Encoding Resolution: select between Same as input, 3840×2160, 1920×1080, 1280×720, 640×480 (Same as input and 3840×2160 are referred only to mainstream).
- Frame Rate (Hz): Select the encoding frame rate.
- GOP: group of pictures, select the interval between two I-frames.
- Bitrate Control: select the bitrate control type, including VBR (Variable Bit Rate) and CBR (Constant Bit Rate).
- Bitrate (kbit): select the bitrate value.
- Level: mainstream supports Baseline only.

Second Encoding Setting

- Encoding Resolution: select the encoding resolution between 1920×1080, 1280×720, and 640×480.
- Frame Rate (Hz): Select the encoding frame rate.
- GOP: group of pictures, select the interval between two I-frames.
- Bitrate Control: select the bitrate control type, including VBR (Variable Bit Rate) and CBR (Constant Bit Rate).
- Bitrate (kbit): select the bitrate value.
- H264 Level: The second stream supports three levels: Baseline, Main and High.

Audio Setting

- Audio Encoding: select the audio encoding type (read-only status).
- Sample Frequency (kHz): select the audio sample frequency (read-only status).
- Audio Source: select the audio source, HDMI or Analog.

The screenshot displays the LINDY Encoder web interface. The top header is red with the LINDY logo and the word "Encoder". A sidebar on the left contains navigation icons. The main content area is divided into three sections:

- Stream Multicast Setting:** Includes a "Channel Number" field set to 0 with an "Available" status indicator. Below are four read-only fields for multicast IP addresses: Main Stream RTSP Multicast IP (224.1.100.0), Main Stream TS Multicast IP (224.3.100.0), Audio Only Multicast IP (224.5.100.0), and Second Stream RTSP Multicast IP (224.2.100.0). The Second Stream TS Multicast IP (224.4.100.0) is also listed.
- RTSP Unicast Stream Setting:** Features a dropdown menu for "RTSP Unicast Stream" set to "Enable". Below are two read-only fields for unicast URLs: "Main Stream RTSP Unicast URL" and "Second Stream RTSP Unicast URL", each with a red "Copy" button.
- RTSP Multicast Stream Setting:** Includes a dropdown menu for "RTSP Multicast Stream" set to "Disable". Below are three read-only fields for multicast URLs: "RTSP Multicast Port" (5004, with a range [2-65532]), "Main Stream RTSP Multicast URL", and "Second Stream RTSP Multicast URL", each with a red "Copy" button.

Stream Multicast Setting

- Channel Number: select the broadcast channel number of the stream; green/red status indicates if the channel is available or not.
- Multicast IP addresses: The multicast addresses are automatically assigned by the device according to the channel number (read-only status).

RTSP Unicast Stream Setting

- RTSP Unicast Stream: enable/disable the RTSP unicast stream.
- Main Stream RTSP Unicast URL: when RTSP unicast stream is enabled, the main stream RTSP unicast URL will appear, click on Copy, then paste it into the media player for playback.
- Second Stream RTSP Unicast URL: when RTSP unicast stream is enabled, the second stream RTSP unicast URL, will appear. Click on Copy then paste it into the media player for playback.

RTSP Multicast Stream Setting

- RTSP Multicast Stream: enable/disable the RTSP multicast stream.
- RTSP Multicast Port: select the RTSP multicast stream port number, it takes effect for both main and the second stream.
- Main Stream RTSP Multicast URL: when the RTSP multicast stream is enabled, the main stream RTSP multicast URL will appear, click on Copy, then paste it into the media player for playback.
- Second Stream RTSP Multicast URL: When the RTSP multicast stream is enabled, the second stream RTSP multicast URL will appear. click on Copy then paste it into the media player for playback.

LINDY
CONNECTION PROTECTION

Encoder

Main Stream TS Multicast URL:

rtp://224.3.100.0:5002

Copy

Second Stream TS Multicast URL:

rtp://224.4.100.0:5002

Copy

Audio Only Multicast Stream Setting

Audio Only Multicast Stream:

Enable

Audio Only Multicast Port:

5006

[2-65532]

Audio Only Multicast URL:

rtp://224.5.100.0:5006

Copy

RTMP/RTMPS Push Stream Setting

Main RTMP/RTMPS Stream:

Disable

Main RTMP/RTMPS Push URL:

rtmp://192.168.1.100/live/livestream

Not Connected

Second RTMP/RTMPS Stream:

Disable

Second RTMP/RTMPS Push URL:

rtmp://192.168.1.100/live/livestream

Not Connected

SRT Push Stream Setting

Main SRT Stream:

Enable

Main SRT Push URL:

srt://192.168.1.100:10080?streamid=#::r=live/livestream1,m=publish

Not Connected

Second SRT Stream:

Enable

Second SRT Push URL:

srt://192.168.1.100:10080?streamid=#::r=live/livestream1,m=publish

Not Connected

Apply

TS Multicast Stream Setting

- TS Multicast Stream: enable/disable the TS multicast stream.
- TS Multicast Port: select the TS multicast stream port number; it takes effect for both the main and the second stream.
- Main Stream TS Multicast URL: when the TS multicast stream is enabled, the main stream TS multicast URL will appear, click on Copy, then paste it into the media player for playback.
- Second Stream TS Multicast URL: When the TS multicast stream is enabled, the second stream TS multicast URL will appear. Click on Copy, then paste it into the media player for playback.
- Audio Only Multicast Stream Setting
- Audio Only Multicast Stream: enable/disable the audio-only multicast stream.
- Audio Only Multicast Port: Select the audio-only multicast stream port number.
- Audio Only Multicast URL: when the audio only multicast stream is enabled, the audio only multicast URL will appear. click on Copy and paste in a software such as VLC media player to play the audio only multicast stream.

RTMP/RTMPS Push Stream Setting

- Main RTMP/RTMPS Stream: enable/disable the main RTMP/RTMPS stream.
- Main RTMP/RTMPS Push URL: When the main RTMP/RTMPS stream is enabled, the main RTMP/RTMPS push stream URL will appear. If there is no push stream or the push stream fails, the status light will show as red, if it's active will show as green.
- Second RTMP/RTMPS Stream: enable/disable the second RTMP/RTMPS stream.
- Second RTMP/RTMPS Push URL: When the second RTMP/RTMPS stream is enabled, the RTMP/RTMPS push stream URL will appear. If there is no push stream or the push stream fails, the status light will show as red, if it's active will show as green.
- After setting the encoder attributes, click on Apply to take effect.
- SRT Push Stream Setting
- Main SRT Stream: enable/disable the main SRT stream.
- Main SRT Push URL: When the main SRT stream is enabled, the main SRT push stream URL will appear. If there is no push stream or the push stream fails, the status light will show as red, if it's active will show as green.
- Second SRT Stream: enable/disable the second SRT stream.

- Second SRT Push URL: When the second SRT stream is enabled, the SRT push stream URL will appear. If there is no push stream or the push stream fails, the status light will show as red, if it's active will show as green.
- After setting the encoder attributes, click on Apply to take effect.

LINDY Network

Network

Lan Setting

IP Mode: DHCP

IP Address: 192.168.3.50 Subnet Mask: 255.255.255.0

Gateway: 192.168.3.1 MAC Address: 6C:DF:FB:00:86:24

DNS Setting

Preferred DNS: 192.168.3.1 Alternate DNS: 0.0.0.0

HTTPS Setting

HTTPS: Off

NTP Server Setting

NTP Server: pool.ntp.org NTP Port: 123

NTP Status: ● Reachable

802.1x Setting

802.1x: Off

802.1x User: 802.1x Password:

Set Network Defaults Apply

LAN Setting

- Select to set the IP Mode (DHCP/Static). In Static mode, enter the IP address, Subnet Mask and Gateway, then click Apply. In DHCP mode, the LAN settings will be assigned by the router or other DHCP server automatically.

DNS Setting

- It displays the preferred DNS and alternate NDS (read-only status).

HTTPS Setting

- The system uses HTTP to log in by default. Select ON to enable the HTTPS function. The system will reboot after switching between HTTP and HTTPS.

NTP Server Settings

- NTP Server: shows the address of the NTP server.

- NTP Port: shows the access port of the NTP server.
- NTP Status: shows the access status of the NTP server; if it's green, there can be normal access to the NTP server, if it's red there is no access to the NTP server.

802.1x Setting

- 802.1x: Click the drop-down menu to select On/Off to enable/disable the 802.1x function.
- 802.1x User: select the login username.
- 802.1x Password: Select the password.
- Set Network Defaults: Click this button to restore the network settings back to the default state.
- Apply: click this button to save the configured settings; otherwise, the configured properties will not take effect.

System

LINDY CONNECTION PERFECTION

System

System

Device Name Setting

Device Name: Apply

OSD Setting

X:

Y:

OSD Text: Apply Clear OSD

Fan Speed Setting

Fan Speed:

Front Panel Menu Button Lock

Menu Button Lock:

Device Name Setting: write the desired name of the device and click on Apply.

OSD Setting

- X: the horizontal coordinate of the OSD display originating from the top left of the screen, from left to right.
- Y: the vertical coordinate of the OSD display originating from the top left of the screen, from top to bottom.
- OSD Text: Write the content of the OSD and click on Apply. Click on Clear OSD to

remove the OSD.

Fan Speed Setting

- Fan Speed: Click on the drop-down menu to select the fan speed (Silent/LowSpeed/Standard Speed/High Speed).

Front Panel Menu Button Lock

- Menu Button Lock: click on the drop-down menu to enable/Disable the MENU button on the front panel.

The screenshot displays the LINDY System configuration web interface. The top header is red with the LINDY logo and the word 'System'. A dark sidebar on the left contains navigation icons. The main content area is divided into several sections:

- Front Panel Menu Button Lock:** Features a 'Menu Button Lock' dropdown menu currently set to 'Enable'.
- Configuration:** Includes a 'Configuration:' label, a file selection button 'Select File...', a text field containing 'No file', and 'Load' and 'Save' buttons.
- Splashscreen:** Shows 'Splash Screen Active' with a green status indicator, 'Splash Screen Update' with a file selection button, a text field with 'No file', and an 'Update' button.
- EDID Setting:** Includes 'Select EDID' with a dropdown menu showing '2160P EDID', 'Upload Edid to User' with a file selection button, a text field with 'No file', and a 'Load' button.
- Firmware:** Shows 'Firmware Version' as 'V1.00.11' and 'Firmware Update' with a file selection button, a text field with 'No file', and an 'Update' button.

At the bottom of the interface, there are 'Reboot' and 'Reset' buttons.

Configuration

- Download configuration: click on Save button to export the current device configuration file.
- Upload configuration: click on Select File to select a configuration file to be imported, then click Load to upload the file.

Splashscreen

- Splash Screen Active: shows the image upload status, if it's gray means that the image displayed by Splash Screen has not been uploaded, if it's green the image

displayed by Splash Screen has been uploaded.

- Splash Screen Update: click on Select File to select a picture file, then click Update to upload the picture.

EDID Setting

- Select EDID: click the drop-down menu to select the desired EDID setting. Upload EDID to User: click Select File to select an EDID file (a binary file containing 256 bytes of EDID data), then click Load to start the upload.
- **Note:** For user-defined EDID uploading, first click Select File to import the EDID file, then select User EDID.

Firmware

- Firmware Version: shows the version of the current firmware.
- Firmware Update: click Select File to select the firmware file to be updated, then click Update to run the update.
- Reboot: Click Reboot to reboot the device.
- Reset: click Reset to restore the device to factory settings.

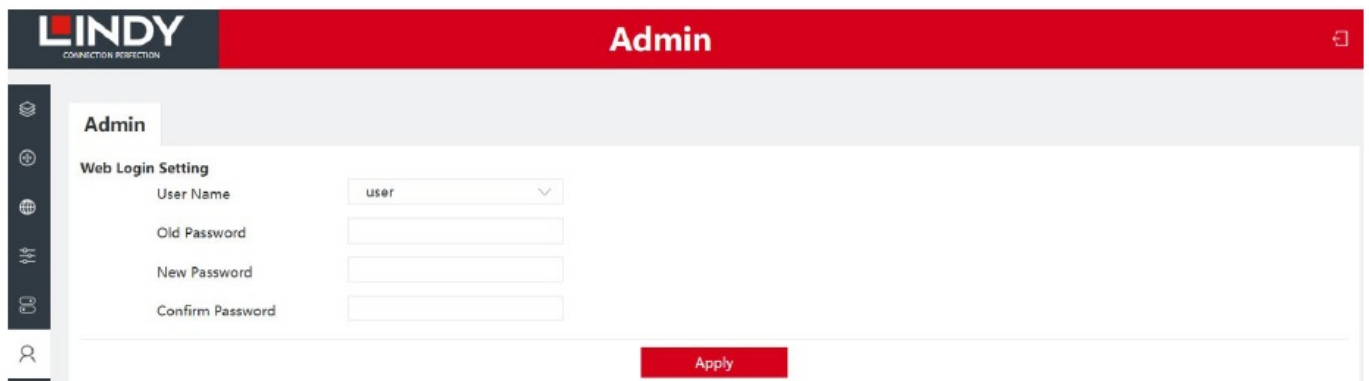
Device List



LINDY Device List						
Device List						
Item	IP Address	Location	Channel Number	Device Name	MAC Address	Product
1	192.168.3.50	Local	CH 000	user label	6C:DF:FB:00:86:24	4K60 STREAMER

- This page displays information about all devices that can be searched for on the network, showing IP Address, Location, Channel Number (please note that if the channel number is in conflict between two devices, both of them will be displayed in red), Device Name, MAC Address and Product.

Admin



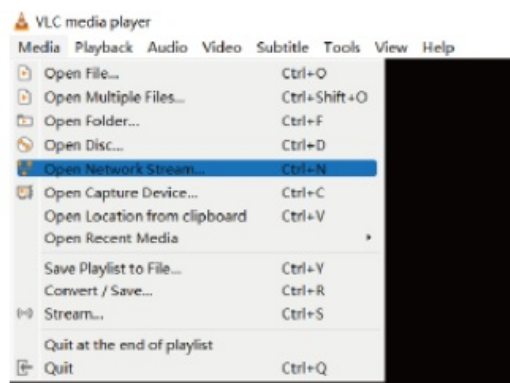
The screenshot shows the LINDY Admin interface. At the top, there is a red header bar with the LINDY logo on the left and the word "Admin" in the center. Below the header, there is a sidebar on the left with various icons. The main content area is titled "Admin" and contains a "Web Login Setting" section. This section has four input fields: "User Name" (with a dropdown menu showing "user"), "Old Password", "New Password", and "Confirm Password". Below these fields is a red "Apply" button.

- Change the admin/user password and click on Apply to take effect.

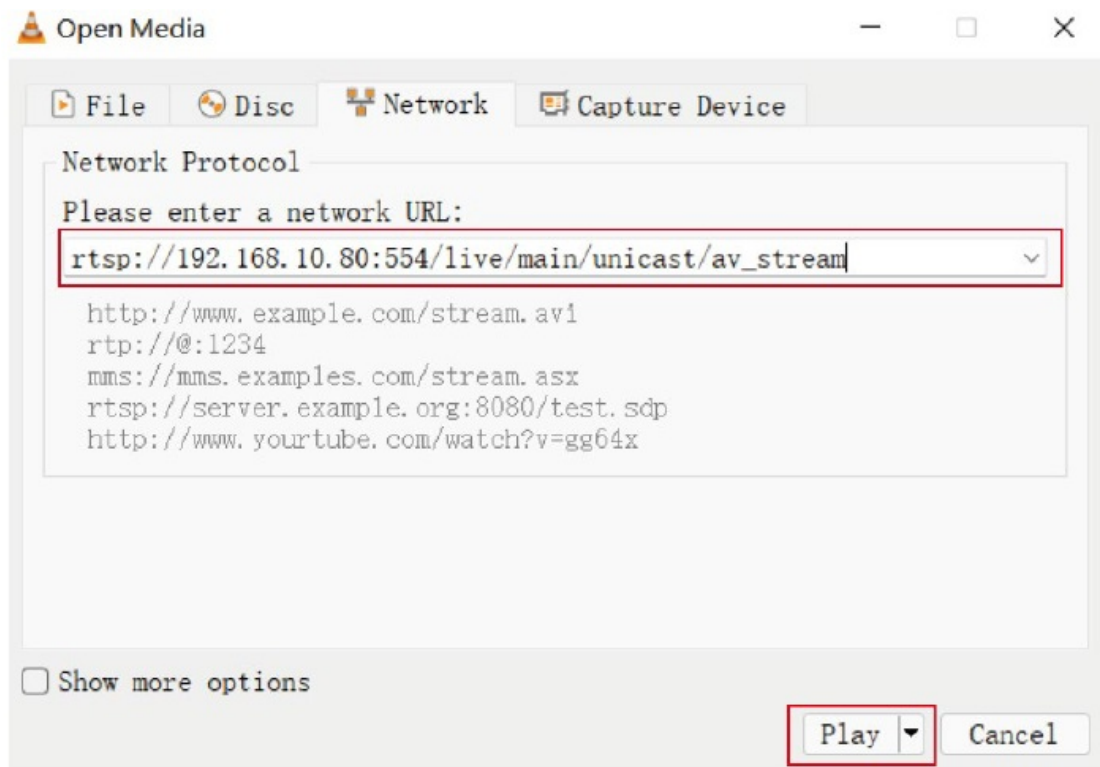
RTSP/TS Stream Operation

This AV Streamer supports playing RTSP/TS stream on a computer through the corresponding software such as VLC media player, and simultaneously set up the Web GUI accordingly following the steps below:

1. Enable the RTSP/TS stream on the Encoder page of the Web GUI.
2. Copy the stream URL.
3. Open VLC and click on Open Network Stream



4. Paste the RTSP/TS stream URL into the URL input box, then click the Play button to start playing the stream.

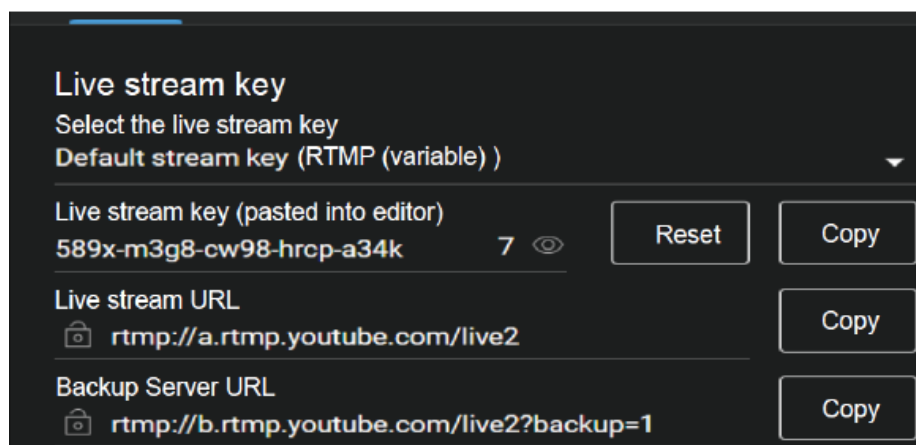



Select Tools > Codec Information to display the stream information.

RTMP/RTMPS Push Stream (YouTube) Operation

This AV Streamer supports RTMP/RTMPS push stream through the corresponding platform, such as YouTube. Simultaneously, set up the Web GUI accordingly following the steps below:

1. Log in to the YouTube website and click on the create icon, obtain the URL of the RTMP/RTMPS push stream. The RTMP push stream URL is <rtmp://a.rtmp.youtube.com/live2/589x-m3g8-cw98-hrcp-a34k>.



2. Click on the  icon to obtain the URL of the RTMPS push stream. The RTMPS push stream URL is <rtmps://a.rtmps.youtube.com/live2/589x-m3g8-cw98-hrcp-a34k>.

Live stream key
Select the live stream key
Default stream key (RTMP (variable))

Live stream key (pasted into editor)
.....

Live stream URL
rtmps://a.rtmps.youtube.com/live2

Backup Server URL
rtmps://b.rtmps.youtube.com/live2?backup=1

Reset Copy Copy Copy

3. Start the push stream by entering the Main RTMP/RTMPS PUSH URL in the web GUI and select Enable.
4. Click on Apply and wait for the green status showing the push stream is successful.

Audio Only Stream Operation

This AV Streamer supports playing audio-only multicast streams on a computer through the corresponding software, such as VLC media player. Simultaneously set up the Web GUI accordingly following the steps below:

1. Enable the Audio Only Multicast Stream on the Encoder page of the Web GUI.
2. Open a serial command tool on PC, input the Module IP (192.168.10.80) of the device, the Port (8000), then click Connect.

Hercules SETUP utility by HW-group.com

UDP Setup | Serial | TCP Client | TCP Server | UDP | Test Mode | About

Received/Sent data

TCP

Module IP: 192.168.10.80 Port: 8000

Ping Connect

TEA authorization

TEA key

1: 01020304 3: 090A0B0C

2: 05060708 4: 0D0E0F10

Authorization code

PortStore test

☐ NVT disable

Received test data

☐ Redirect to UDP

Send

STMR GETSDP! ☐ HEX Send

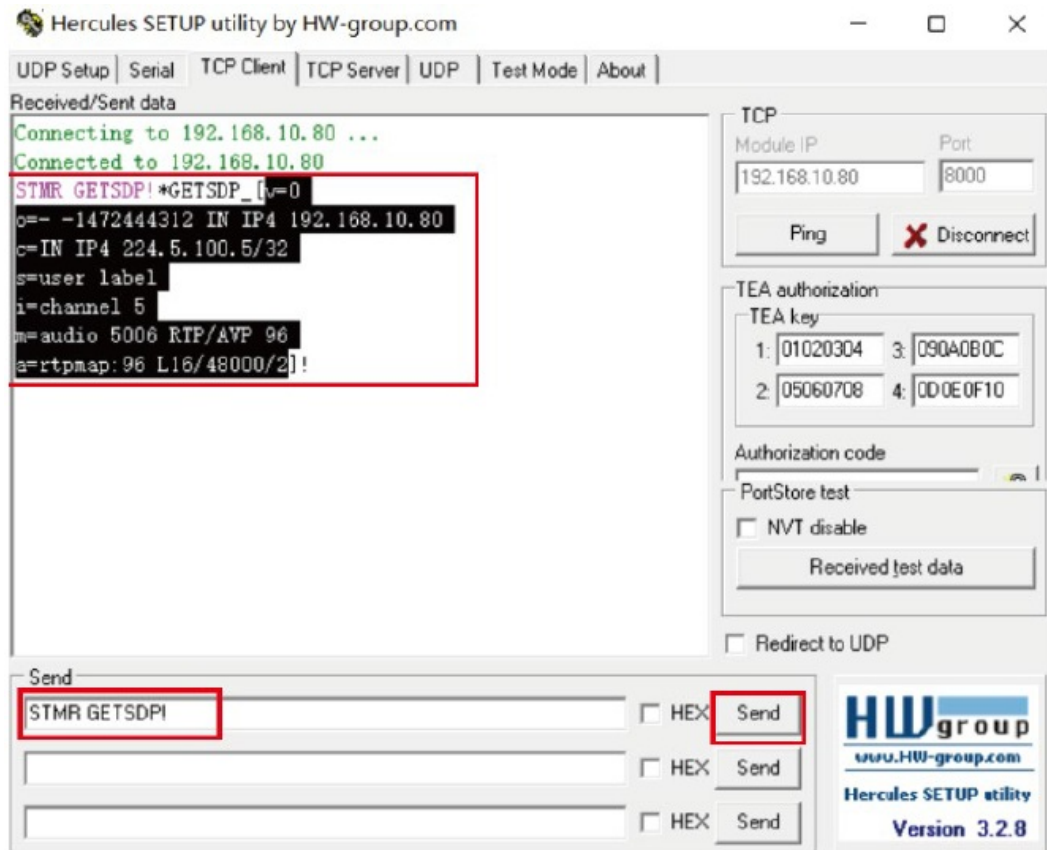
☐ HEX Send

☐ HEX Send

HWgroup
www.HW-group.com
Hercules SETUP utility
Version 3.2.8

3. Write the command "STMR GETSDP!" and click Send, then the following feedback

should appear.



4. Copy the obtained text (the selected part in the figure above), then paste it in the newly created notepad (or directly overwrite the content of the provided RTP_AUDIO-STREAM-PCM.sdp file). Finally, save the file with the name of "RTP_AUDIO-STREAM-PCM.sdp".



5. Open VLC media player, click Media > Open File to import the sdp file, then the audio-only multicast stream will start to play.

API Commands

- STMR GETIPADDRESS! Get device IP address
- STMR GETSUBNET! Get device subnet
- STMR GETGATEWAY! Get device gateway

- STMR GETIPMETHOD! Get device ip method
- STMR GETMACADDRESS! Get device's mac address
- STMR GETPREFERREDDNS! Get device's preferred dns server
- STMR GETALTERNATEDNS! Get device alternate dns server
- STMR GETNTPSERVER! Get NTP Server
- STMR GETNTPPORT! Get NTP port
- STMR GETACTIVESIGNAL! Get input signal active status
- STMR GETINPUTDATA! Get input signal information
- STMR GETOSDON! Get osd text string
- STMR GETOSDONSTATE! Get osd on/off status
- STMR GETDEVICES! Get online devices
- STMR GETMENULOCKSTATE! Get front panel menu button lock on/off status
- STMR GETFIRMWARE! Get device firmware version
- STMR GETMAINSTREAMSTATE! Get mainstream status
- STMR GETSECONDSTREAMSTATE! Get second-stream status
- STMR GETAUDIOSTREAMSTATE! Get audio stream status
- STMR GETAUDIOSOURCE! Get audio source
- STMR GETCHANNEL! Get the channel number
- STMR GETMAINMULTICAST! Get main TS and RTSP multicast and port number
- STMR GETSECONDMULTICAST! Get the second TS and RTSP multicast and port number
- STMR GETAUDIOMULTICAST! Get audio-only multicast and port number
- STMR GETUSERLABEL! Get userlabel
- STMR GETEDID! Get current edid data
- STMR GETRUNHOURS! Get device run time
- STMR GETSERIALNUMBER! Get serial number
- STMR GETSDP! Get the session description protocol file
- STMR GETMAINENCODERTYPE! Get main encoder type
- STMR GETMAINENCODERBITRATE! Get main encoder bitrate
- STMR GETMAINENCODERBITRATECONTROL! Get main encoder bitrate control
- STMR GETMAINENCODERFRAMERATE! Get main encoder frame rate
- STMR GETMAINENCODERRESOLUTION! Get main encoder resolution
- STMR GETMAINENCODERLEVEL! Get main encoder level
- STMR GETMAINENCODERGOP! Get main encoder gop

- STMR GETSECONDENCODERBITRATE! Get second encoder bitrate
- STMR GETSECONDENCODERBITRATECONTROL! Get the second encoder bitrate control
- STMR GETSECONDENCODERFRAMERATE! Get the second encoder frame rate
- STMR GETSECONDENCODERRESOLUTION! Get the second encoder resolution
- STMR GETSECONDENCODERH264LEVEL! Get the second encoder h264 level
- STMR GETSECONDENCODERGOP! Get the second encoder gop
- STMR GETCPU_USAGE! Reports CPU load
- STMR GETMEMORY_USAGE! Reports memory load
- STMR GETMAINRTMPURL! Get main RTMP URL
- STMR GETMAINRTMPENABLE! Get main RTMP enable status
- STMR GETMAINRTMPSTATUS! Get main rtmp stream push status
- STMR GETSECONDRTMPURL! Get the second RTMP URL
- STMR GETSECONDRTMPENABLE! Get the second rtmp enable status
- STMR GETSECONDRTMPSTATUS! Get the second rtmp stream push status
- STMR GETHTTPSENABLE! Get https enable status
- STMR GET8021XENABLE! Get the 802.1x enable status
- STMR GETFANSPEED! Get fan speed
- STMR GETCLOSESYSTEMMODE! Get close to system mode
- STMR GETMAINSRTURL! Get main SRT URL
- STMR GETMAINSRTENABLE! Get the main srt enable status
- STMR GETMAINSRTSTATUS! Get main srt stream push status
- STMR GETSECONDSRTURL! Get the second SRT URL
- STMR GETSECONDSRTENABLE! Get the second srt status enable
- STMR GETSECONDSRTSTATUS! Get the second srt stream push status
- STMR SETMAINENCODERTYPE_[xxx]! Set main encoder type xxx=H265 xxx=H264
- STMR SETMAINENCODERBITRATE_[nnnn]! Set main encoder bitrate nnnn= 32 ~ 82000
- STMR SETMAINENCODERBITRATECONTROL_[xxx]! Set main encoder bitrate control xxx=VBR xxx=CBR
- STMR SETMAINENCODERFRAMERATE_[nn]! Set main encoder frame rate nn= 5 ~ 60
- STMR SETMAINENCODERRESOLUTION_[xxx]! Set main encoder resolution xxx=SAME xxx=2160 xxx=1080 xxx = 720

- STMR SETMAINENCODERLEVEL_[xxx]! Set main encoder level xxx=BASELINE
- STMR SETMAINENCODERGOP_[nnn]! Set main encoder gop nnn 5 ~ 300
- STMR SETSECONDENCODERBITRATE_[nnnn]! Set second encoder bitrate nnnn 32 ~ 32000
- STMR SETSECONDENCODERBITRATECONTROL_[xxx]! Set second encoder bitrate control xxx=VBR xxx=CBR
- STMR SETSECONDENCODERFRAMERATE_[nn]! Set second encoder frame rate nn= 5 ~ 30
- STMR SETSECONDENCODERRESOLUTION_[xxx]! Set second encoder resolution xxx=1080 xxx = 720 xxx = 480
- STMR SETSECONDENCODERH264LEVEL_[xxx]! Set second encoder h264 level xxx=BASELINE xxx=MAIN xxx=HIGH
- STMR SETSECONDENCODERGOP_[nnn]! Set second encoder gop nnn= 5 ~ 300
- STMR SETCHANNEL_[xxx]! Set channel number xxx= 0 ~ 999
- STMR SETAUDIOSOURCE_[xxx]! Set audio source xxx=HDMI xxx=AUDIOIN
- STMR SETIPADDRESS_[nnn.nnn.nnn.nnn]! Set a static network ip
- STMR SETSUBNET_[nnn.nnn.nnn.nnn]! Set the static network netmask
- STMR SETGATEWAY_[nnn.nnn.nnn.nnn]! Set a static network gateway
- STMR SETIPMETHOD_[xxx]! Set ip method xxx=STATIC xxx=DHCP
- STMR SETPREFERREDDNS_[nnn.nnn.nnn.nnn]! Set static preferred dns server
- STMR SETALTERNATEDNS_[nnn.nnn.nnn.nnn]! Set a static alternate dns server
- STMR SETNTPSERVER_[xxx]! Set NTP Server
- STMR SETNTPPORT_[nnnnn]! Set NTP port nnn= 1 ~ 65535
- STMR SETEDID_[xxx]! Set edid mode xxx=2160 xxx=1080 xxx=720 xxx=CUSTOM
- STMR SETOSDON_[x,y]_[sss]! Set OSD on and OSD text on[x,y]
- STMR SETOSDOFF! Set OSD off
- STMR SETUSERLABEL_[xxx]! Set user label
- STMR SETALLSTREAMSTATE_[xxx]! Set stream status xxx=START, xxx=PAUSE, xxx=STOP
- STMR SETMAINSTREAMSTATE_[xxx]! Set main stream status xxx=START, xxx=PAUSE, xxx=STOP
- STMR SETSECONDSTREAMSTATE_[xxx]! Set second stream status xxx=STAR,T xxx=PAUSE xxx=STOP, xxx=DISABLE
- STMR SETAUDIOSTREAMSTATE_[xxx]! Set audio stream status xxx=START,

xxx=PAUSE, xxx=STOP

- STMR SETTSMULTICAST_[xxx]! Set TS Multicast Enable on/off xxx=ENABLE
xxx=DISABLE
- STMR SETRTSPMULTICAST_[xxx]! Set RTSP Multicast Enable on/off xxx=ENABLE
xxx=DISABLE
- STMR SETRTSPUNICAST_[xxx]! Set RTSP Unicast Enable on/off xxx=ENABLE
xxx=DISABLE
- STMR SETAUDIOMULTICAST_[xxx]! Set Audio only Multicast Enable on/off
xxx=ENABLE xxx=DISABLE
- STMR SETTSMULTICASTPORT_[xxx]! Set TS Multicast Port nnn 1 ~ 65535
- STMR SETRTSPMULTICASTPORT_[xxx]! Set RTSP Multicast Port nnn= even
number (2 ~ 65532)
- STMR SETAUDIOMULTICASTPORT_[xxx]! Set Audio only Multicast Port nnn= even
number (2 ~ 65532)
- STMR SETMENULOCKSTATE_[xxx]! Set front pane menu button lock on/off xxx=ON
xxx=OFF
- STMR SETMAINRTMPURL_[ssss]! Set main rtmp url ssss=url must start with rtmp://
- STMR SETMAINRTMPENABLE_[xxx]! Set main rtmp enable xxx = ON xxx = OFF
- STMR SETSECONDRTMPURL_[ssss]! Set the second RTMP URL ssss=url must
start with rtmp://
- STMR SETSECONDRTMPENABLE_[xxx]! Set second rtmp enable xxx = ON xxx =
OFF
- STMR SETHTTPSENABLE_[xxx]! Set https enable xxx = ON xxx = OFF
- STMR SET8021XOFF! Set 802.1x off
- STMR SET8021XON_[user]_[pwd]! Set 802.1x on user=802.1x username,
pwd=802.1x password
- STMR SETFANSPEDD_[nnn]! Set fan speed. 1:Silent 2:Low Speed 3:Standard Speed
4:High Speed
- STMR SETCLOSESYSTEMMODE_[xxx]! Set close system mode xxx = ON xxx = OFF
- STMR SETMAINSRTURL_[ssss]! Set main srt url ssss=url
- STMR SETMAINSRTENABLE_[xxx]! Set main srt enable xxx = ON xxx = OFF
- STMR SETSECONDSRTURL_[ssss]! Set second srt url ssss=url
- STMR SETSECONDSRTENABLE_[xxx]! Set second srt enable xxx = ON xxx = OFF
- STMR REBOOT! Set the device to reboot

- STMR SETFACTORYDEFAULT! Set the reset device

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Recycling Information

WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products Europe, United Kingdom

In 2006, the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process. Each individual EU member state, as well as the UK, has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.



FCC STATEMENT

CE Certification

- LINDY declares that this equipment complies with relevant European CE requirements.

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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.

The enclosed power supply has passed the Safety test requirements, conforming to the US American versions of the international Standard IEC 62368-1.

Statement of PSTI Compliance

This product has been designed in conformance with the applicable security requirements of the following UK Legislation: Product Security and Telecommunications Infrastructure Act 2022 and Schedule 1 of The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023.

The product is in conformity with the following Security requirements:

1. The password is unique per device or defined by the user of the device, and the password, which is unique per device, is generated by using a security mechanism that reduces the risk of automated attacks against a class or type of device.
2. Users can report vulnerabilities to LINDY via productsecurity@lindy.co.uk.
Furthermore, users will receive acknowledgment of the receipt of a security issues report and status updates until the resolution of the reported security issues.
3. We will provide security updates and patches to address any security vulnerabilities that may be identified in the product during the support period. The defined support period will end on April 2035 after the product's last end-of-life date.

CONTACT

Hersteller / Manufacturer (EU):

- LINDY-Elektronik GmbH
- Markircher Str. 20
- 68229 Mannheim Germany
- Email: info@lindy.com, T: +49 (0)621 470050


Manufacturer (UK):

- LINDY Electronics Ltd
- Sadler Forster Way
- Stockton-on-Tees, TS17 9JY England
- sales@lindy.co.uk, T: +44 (0)1642 754000

FAQ

- **Q: What video resolutions are supported by the Encoder?**
 - **A:** The Encoder supports compressed video resolutions up to 3840×2160@60Hz 4:4:4.
- **Q: How can I change the password for web access?**
 - **A:** To change the password, access the web GUI and follow the steps provided in the user manual.

Documents / Resources

	LINDY 38519 4K60 HDMI Over IP Streaming Encoder [pdf] User Manual 38519, 38519 4K60 HDMI Over IP Streaming Encoder, 38519, 4K60 HDM I Over IP Streaming Encoder, HDMI Over IP Streaming Encoder, Over IP Streaming Encoder, IP Streaming Encoder, Streaming Encoder
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References

- [User Manual](#)

LINDY

38519, 38519 4K60 HDMI Over IP Streaming Encoder, 4K60 HDMI Over IP Streaming Encoder, HDMI Over IP Streaming Encoder, IP Streaming Encoder, LINDY, Over IP Streaming Encoder, Streaming Encoder

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