



# RGBlink TAO 1mini All In One Live Streaming Codec Video Switcher User Guide

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**RGBlink TAO 1mini All In One Live Streaming Codec Video Switcher**



## Product Information

This product is called TAO 1mini-HN. It is a versatile device that supports HDMI&UVC and FULL NDI gigabit Ethernet videostream codecs for encoding and decoding. It has a round appearance, simple and elegant design, and is easy to carry. The device comes with standard camera screw holes for easy installation on camera brackets. It features a 2.1-inch TFT touch screen for real-time signal monitoring and menu operations. It also supports tally lights, U disk recording, and Power over Ethernet (PoE) functionality.

The TAO 1mini-HN offers low latency live previews and recording with support for RTMP and RTMPS protocols. It can be powered via PoE or USB-C PD, and it allows streaming to at least 4 platforms using the TAO APP. The device has LED TALLY indicators and supports up to 2K FHD video resolution. It is compatible with MJPEG/YUV and H.264 codecs for high-quality video transmission.

## Product Usage Instructions

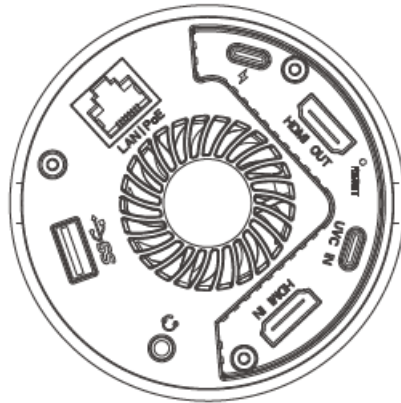
To use the TAO 1mini-HN, follow these steps:

1. Connect your phone or other devices to the UVC IN port to receive video signals.
2. Use the Reset button to recharge the device if needed.
3. Connect your AI tracking camera to the HDMI IN port to receive video signals.
4. Use the LAN|PoE port for up streaming.
5. Connect an external display or recording device to the HDMI OUT port for video signal transmission.
6. Use the MIC port for audio signal transmission.
7. Connect your webcam to the USB 3.0 port for video signal transmission.
8. Make use of the 2.1-inch TFT touch screen for real-time signal monitoring and menu operations.
9. Utilize the tally lights feature for visual indication.
10. Take advantage of the U disk recording capability if desired.
11. If using PoE, connect the device to a PoE-enabled network for power supply and network transmission.

12. Install the device using the double-rack screw holes according to your specific installation scenario.

For more information and support, visit the [rgblink website](https://www.rgblink.com) or contact [sales@rgblink.com](mailto:sales@rgblink.com) or +86 592 5771197.

## Specification



## Interface

- **Input**

HDMI 1.3  
1×HDMI-A  
UVC  
1×USB-C

- **Output**

HDMI 1.3  
1×HDMI-A

- **Audio**

Input  
1×3.5mm audio socket

- **Communication**

LAN(PoE)  
1×RJ45  
USB 3.0  
1×USB-A

- **Power**

Type-C  
1×PD Type-C  
LAN(PoE)  
1×RJ45

## Power

- Mode PoE, PD
- Input voltage 5~12V
- Maximum power 10W

## Working Environment

- Temperature 0°C~55°C
- Humidity 5%~85%

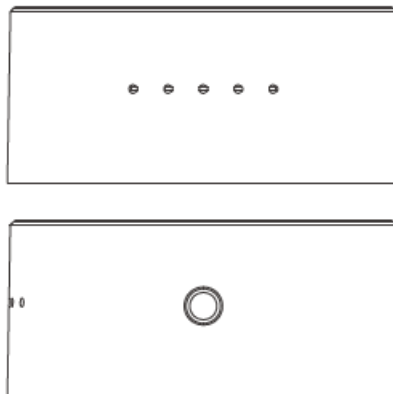
## Physical

- Product Weight 180g
- Package Weight 780g
- Product Dimension 91mm(diameter)×40.8mm(height)
- Package Dimension 215mm x 145mm x 80mm

## In the Box

- TAO 1mini-HN
- Welcome Card
- USB-C Cable
- International Socket Adapters

## Performance



### HDMI 1.3 input

- Input resolution 720p@50/60, 1080i@50/60, 1080p@30/50/60, 1280×720@50/60, 1280×768@60, 1280×1024@60, 1360×768@60, 1366×768@60 , 1600×900@60, 1920×1080@50/60
- Format RGB/YUV 4:2:0/4:2:2
- Bit depth 8 bit/10 bit
- Pixel format BT.601 | BT.709
- Image delay 3 frames

### UVC/Type C input

- Input resolution 1024×768@60, 1280×720@50/60, 1280×768@60, 1280×1024@60, 1360×768@60, 1920×1080@24/25/30/50/60
- Decoding performance MJPEG/YUV | H.264 | H.265

## **Audio Input**

- Audio delay setting 0~160ms
- Analog audio input MIC/LINE
- Maximum input level +6dBV

## **LAN**

- Coding performance Support MJPEG\YUV,H.264,H.265
- Speed mode CBR,VBR,FIXQP,AVBR,QPMAP
- NDI coding FULL NDI, 2K@60
- NDI decoding FULL NDI, 2K@60
- RTMP/SRT coding Support streaming software
- Maximum output speed 125Mbps

## **HDMI 1.3 output**

- Output resolution 720×480@30, 1280×720@30, 1920×1080@30/60
- Audio Embedded audio output

## **Order Codes**










- 410-5513-05-3 TAO 1mini-HN

## Device interface



## Feature

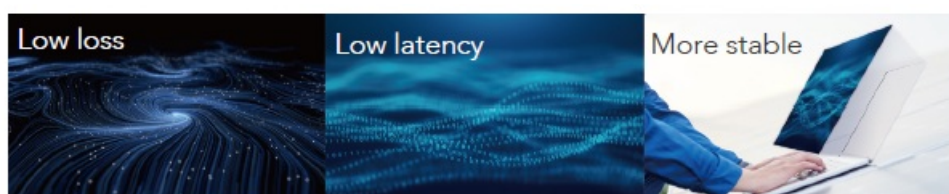
NDI is the abbreviation of Network Device Interface, which is a broadcast-quality, low-latency open IP network interface protocol launched by NewTek. As the world's leading network audio and video codec technology, NDI is favored by more and more professional audio and video technicians. TAO 1mini-HN supports HDMI&UVC and FULL NDI gigabit Ethernet video stream codecs for encoding and decoding. Round appearance, simple and elegant, easy to carry, with standard camera screw holes, can be easily installed to the camera bracket. The device has a 2.1-inch TFT touch screen for real-time monitoring of signals and menu operations. Support tally lights, support U disk recording, support PoE and other functions.

 Compact in form	 low latency	 power via PoE	 LED TALLY indicators
<b>NDI®</b> NDI® codec support	 live previews & recording	 power from USB-C PD	<b>FHD</b> Up to 2K FHD
 Dual 1/4in inputs	 RTMP/RTMPS protocols	 Stream to at least 4 platforms via TAO APP	

## Usage Instruction

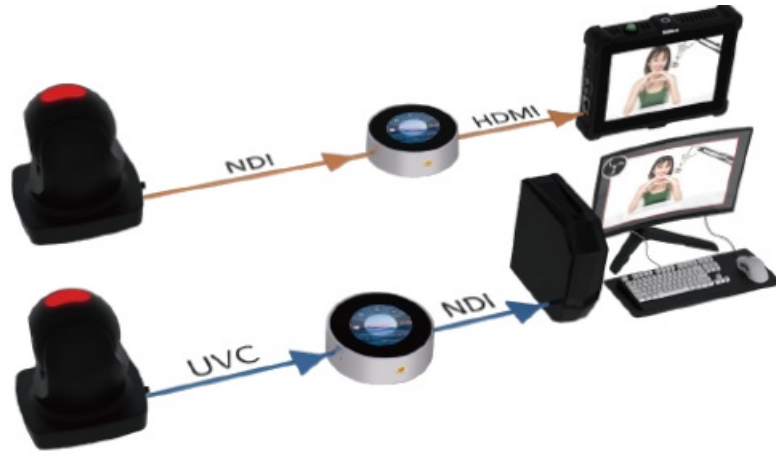
### Why choose NDI?

NDI is a broadcast-quality, low-latency video streaming protocol over Gigabit networks. With low loss, low latency, more stable



## NDI & NDI HX Codec integration

TAO 1mini-HN not only supports 2K Full NDI but also NDIHX, it is an all-in-one codec machine



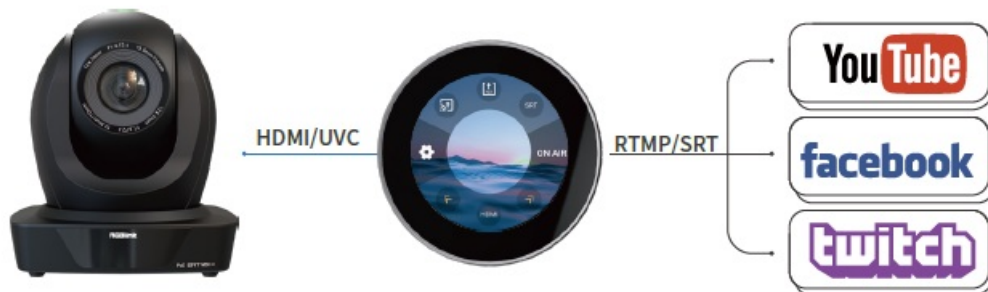
### Professional IP production equipment

Both encoding and decoding support up to 2K (FHD) video resolution, and are backward compatible with resolutions such as HD/SD. Adopt MJPEG\YUV, H.264 to ensure high quality video transmission



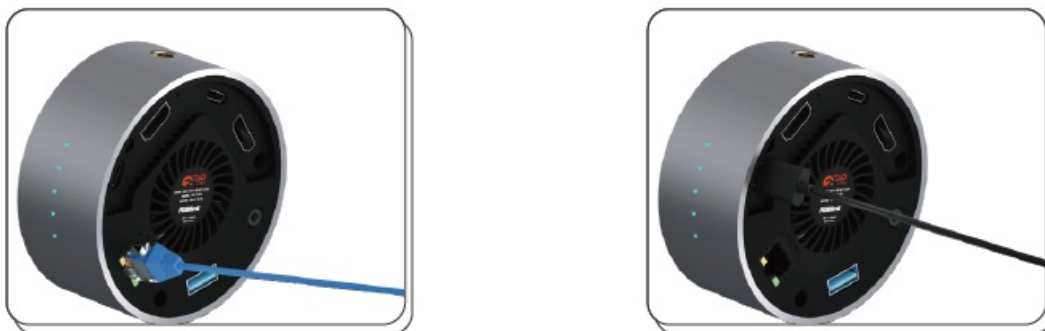
### Multi-platform live streaming

TAO 1mini-HN can not only convert 2K HDMI\UVC signals into NDI\RTMP\SRT, but also a network push streaming device that can realize simultaneous live broadcast of 4 platforms.



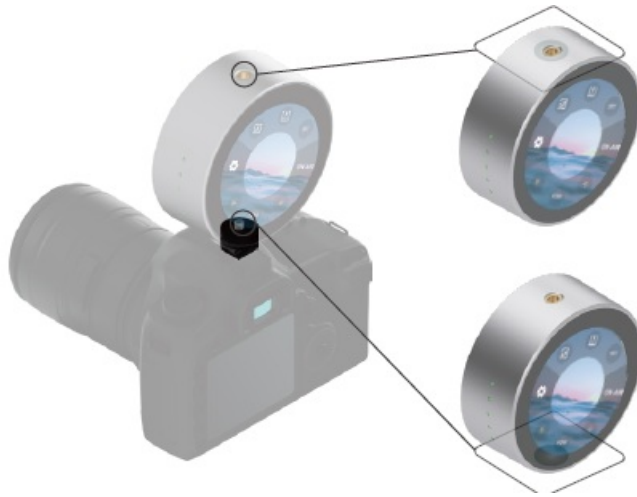
### Power via PoE Ethernet

At the same time, it supports Power over Ethernet (PoE), PD input, and can use a mobile power supply to power the device. Only one network cable can realize power supply and network transmission.



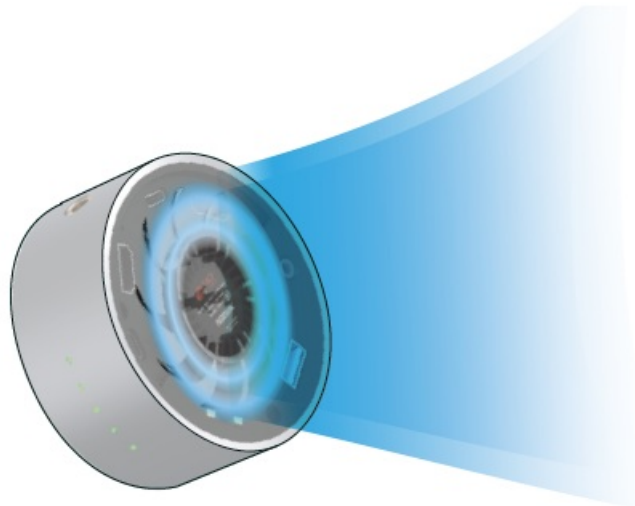
### Easy to install

TAO 1mini-HN has double-rack screw holes, allowing you to enjoy a variety of installation experiences according to different scenarios.



### **Portable and stable**

Exquisite and portable, it has a built-in ultra-thin large-diameter cooling fan to help cool the device.



### **One-click recording**

The USB 3.0 interface supports up to 64G U disk or 2T SSD solid state drive, and realizes high-quality audio and video recording function with one key.



### **Monitor and touch**


The 2.1-inch full-color touch monitoring screen can not only monitor the signal in real time, but also control it



quickly.



Documents / Resources

	<p><b><a href="#">RGBlink TAO 1mini All In One Live Streaming Codec Video Switcher</a></b> [pdf] User Guide TAO 1mini-HN, TAO 1mini, All In One Live Streaming Codec Video Switcher, TAO 1mini All In One Live Streaming Codec Video Switcher, Live Streaming Codec Video Switcher, Streaming Codec Video Switcher, Codec Video Switcher, Video Switcher, Switcher</p>
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References

-  [RGBlink](#)