



RGLink TAO 1pro Broadcasting Streaming Decoder User Guide

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Quick Start

- 5.5 inch HD touch screen for operation
- Network HD streaming,H.264 encoding
- Asynchronous rotation of main screen and HDMI output
- 2*UVC inputs,2*HDMI 1.3 input and 1* HDMI 2.0 output
- Bluetooth 5.0
- NDI 5.0 encoder
- Monitor with waveform, vector and histogram analyse

- Network HD streaming,H.264 encoding
- Recorder to USB 2.0 SSD hard disk, range up to 2TB
- Multistream up to 4 Live Streaming platform simultaneously
- Optional external battery up to two batteries

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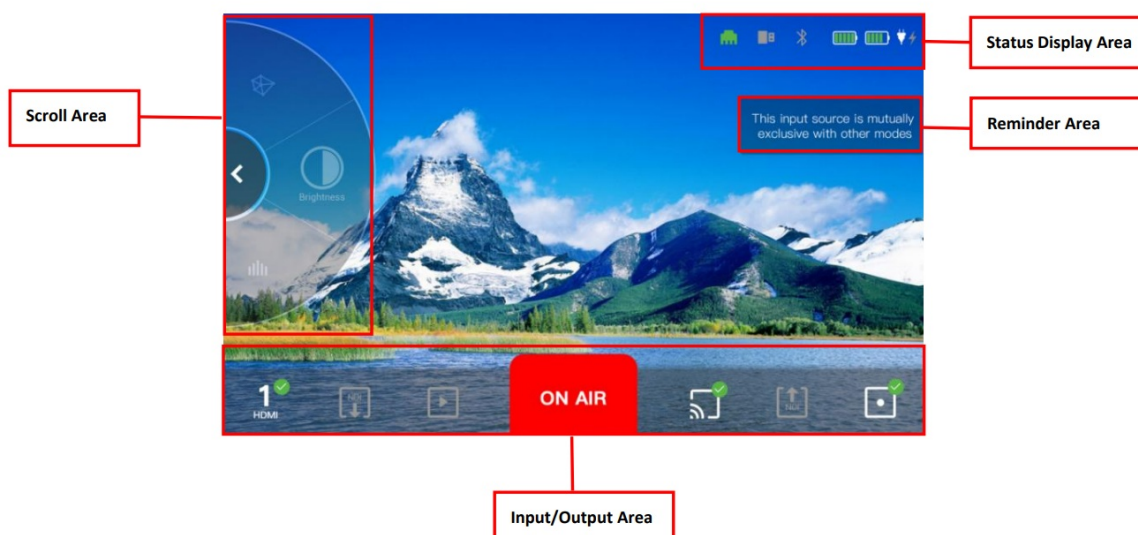
Overview

TAO 1pro is a Broadcasting streaming decoder with a 5.5 inch FHD preview display, but also a 4 channels seamless video switcher for 2 USB 3.0 and 2 HDMI 1.3 inputs, and supports streaming directly by Ethernet output which is ready to connect to external cloud based router and streaming from Anywhere to Everywhere.

TAO 1pro is compatible with standard USB 2.0 and USB 3.0 cameras by UVC protocol, and brings itself as a much affordable and user friendly streaming tools for anybody, the talents who is willing to be Anchor Online.

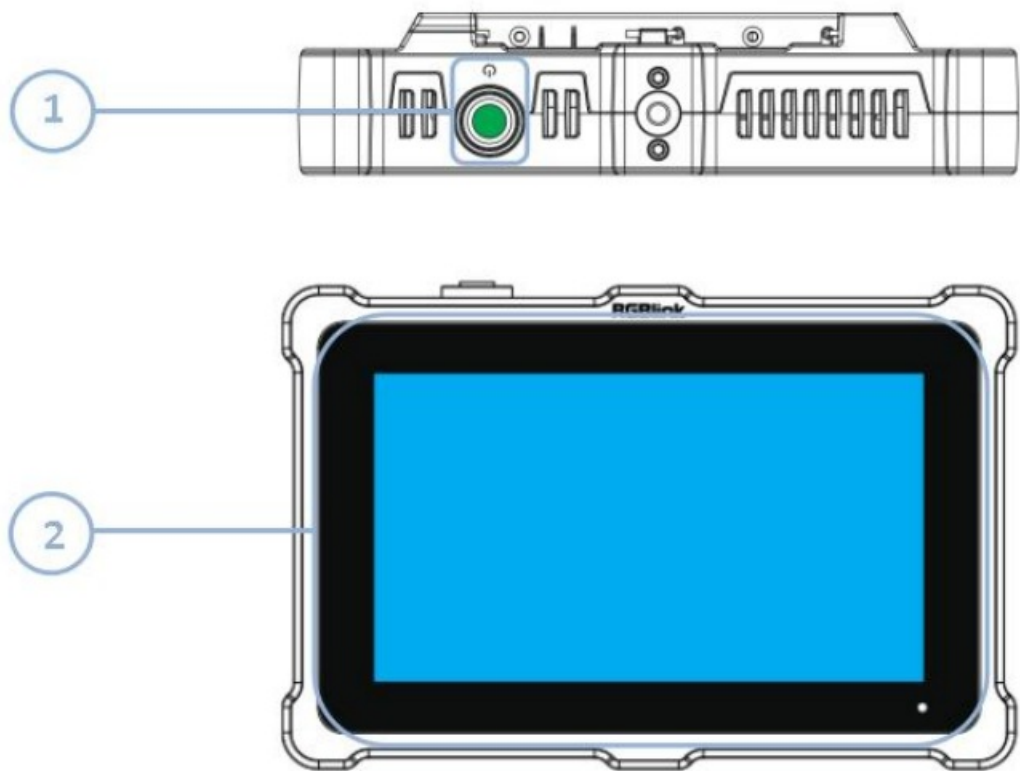
TAO 1pro is also with touch panel for finger configuration, and with optional 2 chargeable battery extending its capacity for outdoor application.

TAO 1pro can be divided into four parts: Input/Output Area, Scroll Area, Reminder Area and Status Display Area.



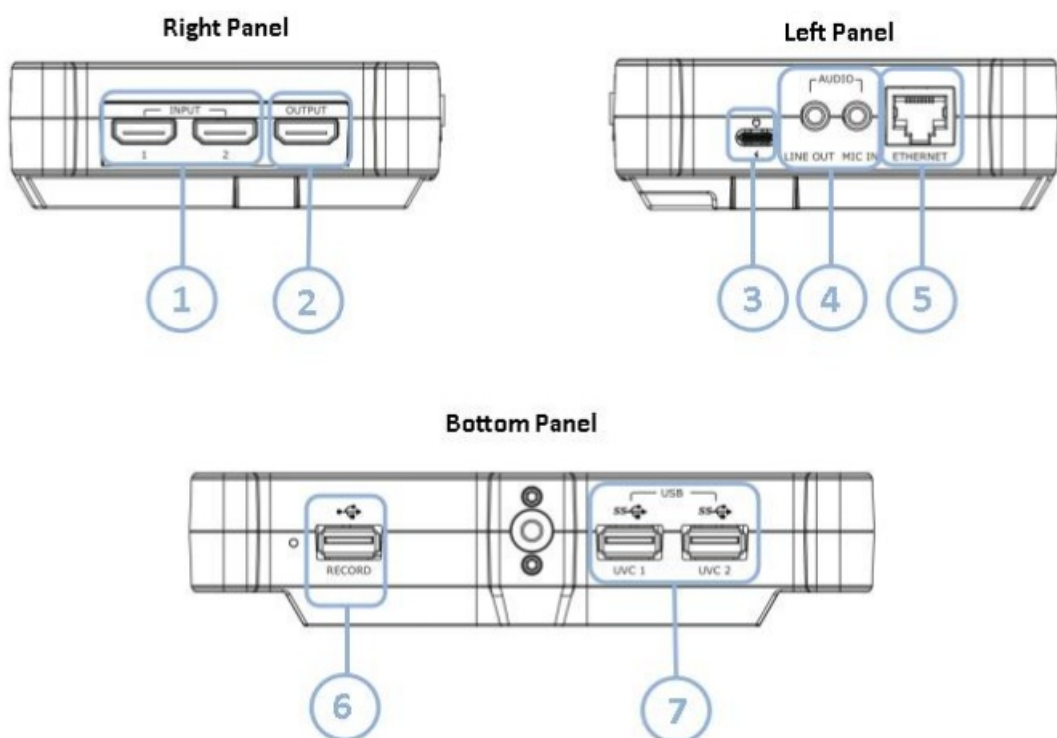
Hardware Orientation

Front Panel



| No. | Item | Description |
|-----|--------------|---|
| 1 | Power Button | Gently press to turn on, long press 3 seconds to turn off |
| 2 | Touch Screen | 5.5 inch touch screen for menu control |

Interface Panel



| No. | Connectors | Number | Description |
|-----|------------|--------------------|--|
| 1 | HDMI IN | 2xHDMI IN | Connect to camera and computer |
| 2 | HDMI OUT | 1xHDMI OUT | Connect to external monitor |
| 3 | Type C | 1xPD Type C | Connect to the power supply |
| 4 | Audio | 1x MIC IN/LINE OUT | Connect to microphone and earphone |
| 5 | LAN | 1x RJ45 | Gigabit network port |
| 6 | USB 2.0 | 1x USB Type A | Connect to harddisk for recording,and storage up to 2T |
| 7 | USB 3.0 | 2x USB Type A | Connect to USB camera for UVC capture |

Product Installation

1. Power on TAO 1pro via USB-C power cord.



2. Connect the input source to TAO 1pro HDMI IN connector.



3. Connect monitor to HDMI OUT interface to preview the input and output.



4. Connect microphone to Audio IN interface, speaker or earphones to Audio OUT interface.



5. Connect TAO 1pro to the router via CAT6 and stream to the live platform.

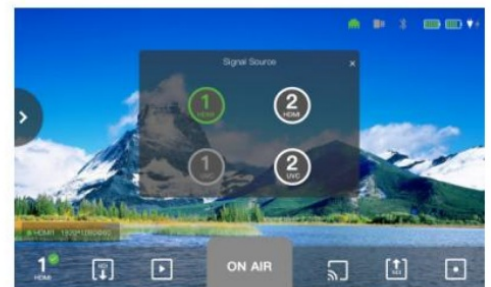


6. After connection, press the power switch on the top panel to open the device.



Use Your Product

Signal Switch



1. Gently touch HDMI 1 in the bottom menu bar.
2. Select the signal you want to choose/switch.

1. Source Status:

—No Source;

—Ready;

—Selected.

2. Only by switching to the UVC signal can the control be achieved. Grey status of UVC signal indicates unavailable status.

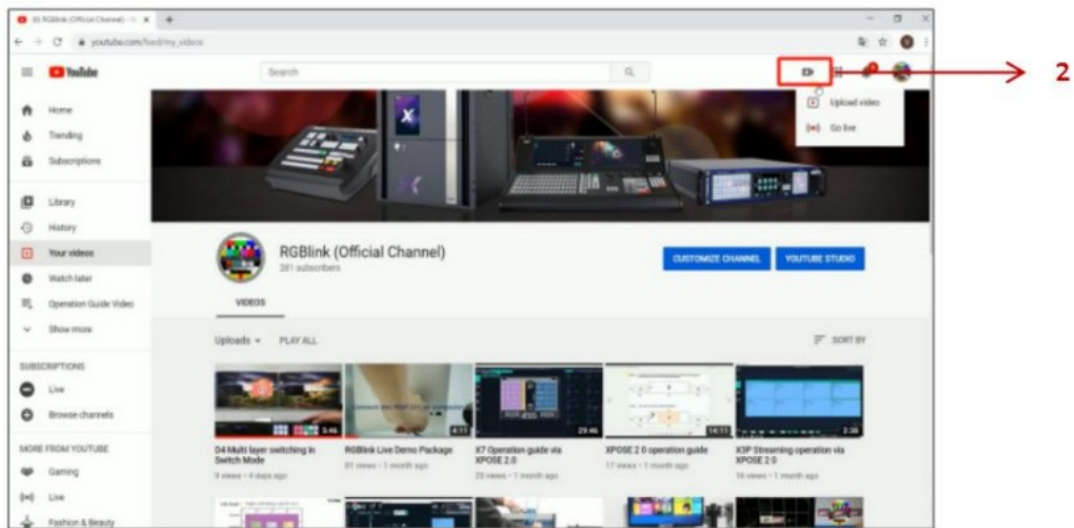
Streaming

Following steps take YouTube stream as example:

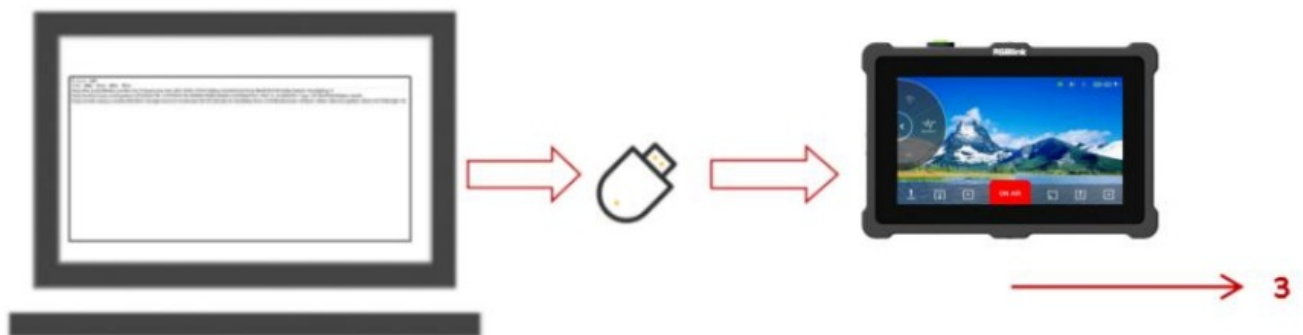
1. Make sure TAO 1pro connect to the network.



2. Open YouTube Studio on your computer, select Go Live – Stream, Copy Stream URL and Stream Key.



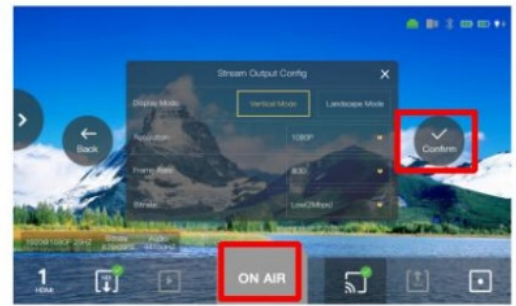
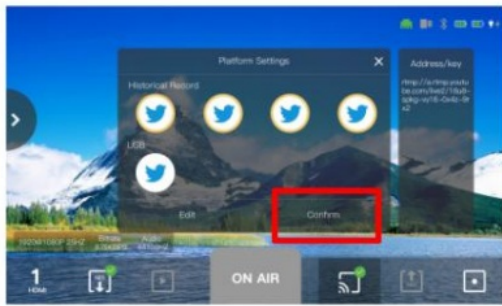
3. Create a new TXT file first, and paste the Streaming URL and Stream Key (the format must be : rtmp://:YOUR STREAM URL/YOUR STREAM KEY), and save the TXT file to USB as rtmp.ini. (Newline is required to add multiple streaming addresses) and connect the USB disk to TAO 1pro's RECORD USB port.



4. Click [Stream Output] icon to enter the following interface.



5. Click [Confirm] to enter the [Stream Output Config] interface.



6. Click [ON AIR] to stream (support up to 4 live streaming platforms at the same time).



Source Status: –Available but Failed in Streaming; –Streaming.

Player



1. Insert a USB flash drive into the USB 2.0 port and then play the video in the USB.
2. Press the icon to enter the [Player] interface and select the video you want to play.

Note: If there is no USB flash drive inserted, the icon displays gray status.

NDI Decoder

1. Set the IP address (same as the network of camera), subnet mask and gateway in [Network Settings] of [Scroll Area].
2. Press the icon to turn on the switch to start NDI decoding function.



NDI Encoder

Press the NDI decoding icon to enter the interface to set relative parameters.



Recorder

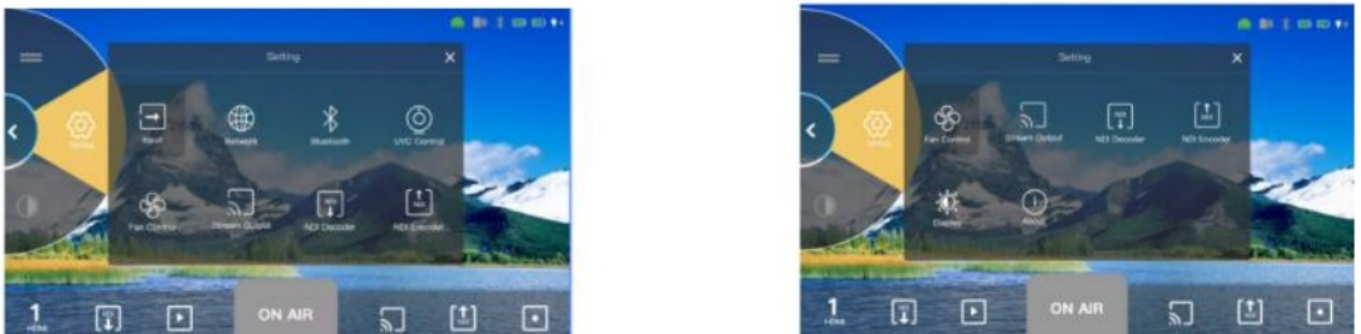
1. Plug USB hard drive to TAO 1pro USB 2.0 port.
2. Click record icon to start recording.



Note: If there is no USB flash drive inserted, the recording icon displays gray status.

Settings

Click [Setting] in Scroll Area to enter following interface to set Input Settings, Network, Bluetooth, UVC Control, Fan Control, Stream Output, NDI Decoder, NDI Encoder, Display and About.



Input Settings: Input Signal, Input Format, Audio Sampling Rate, Signal Name, Brightness, Contrast, Saturation, Hue and Sharpness.

Network: Set IP Address, Netmask and Gateway.

Bluetooth: ON/OFF. Turn ON Bluetooth and choose the device to be connected to achieve control of PTZ camera.

UVC Control: Adjust parameters of PTZ cameras connected to TAO 1pro.

Fan Control: Set fan speed and fan mode.

Stream Output: Set display mode, resolution, frame rate, bitrate.

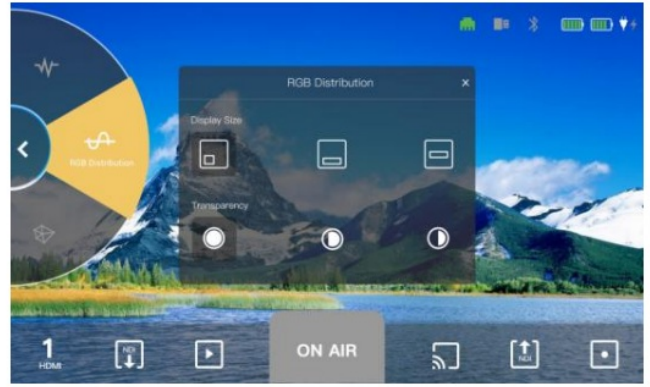
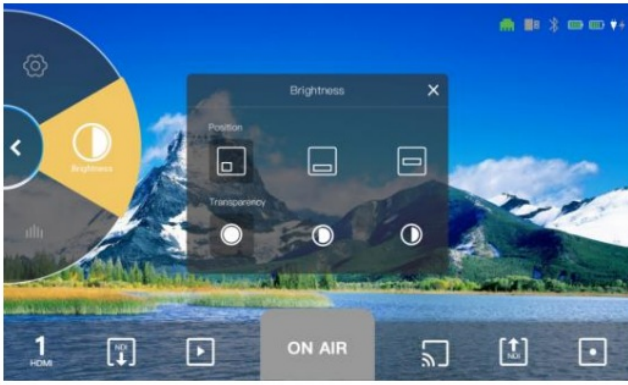
NDI Decoder/Encoder: Same settings as previous parts shown.

Display: Set the brightness of the output, HDMI output resolution and display rotation.

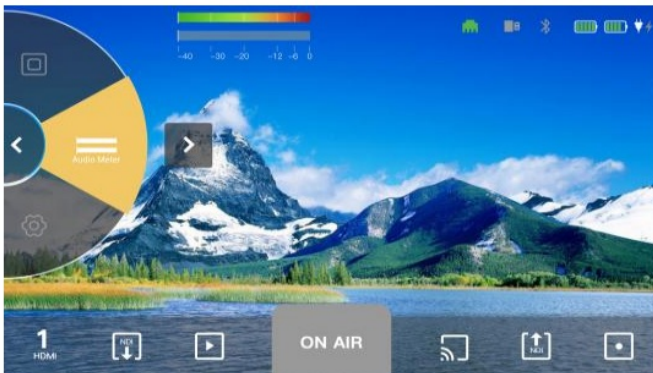
About: Include device info, language setting, update setting and factory reset.

Brightness/RGB Waveform/Vector/Histogram

Click Brightness/RGB Waveform/Vector/Histogram to select position and transparency.

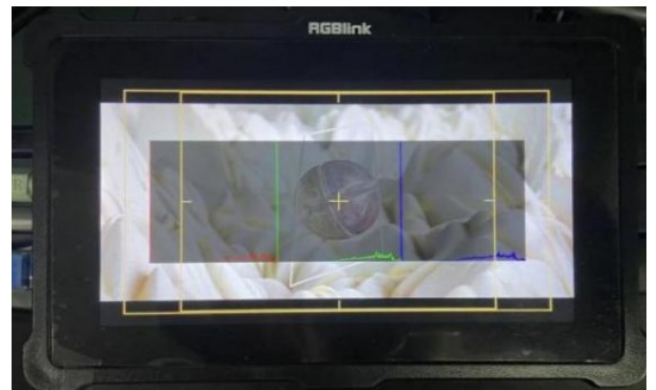
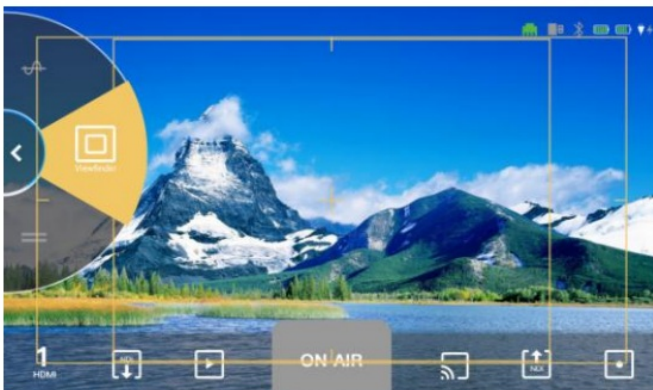


Audio Meter



Click Audio Meter to adjust settings of input and output audio.

Viewfinder



Specification

| | | |
|----------------------------------|--------------------------|---|
| Connectors | Input | HDMI 1.3 2xHDMI-A USB 3.0 2xUSB-A |
| | Output | HDMI 2.0 1xHDMI-A |
| | Record | USB 2.0 1xUSB-A |
| | Audio | In 1×3.5mm Audio Jack Out 1×3.5mm Audio Jack |
| | Communication/ Stream | LAN 1xR.145 |
| | Power | 1xUSB-C |
| Performance Screen Feature | Input Resolutions | HDMI SMPTE 720p@50/60 11080p@23/24/60 VESA 1024×768@60 1280×720@60 1280×800@60 1280×1024@60 1360×768@60 1600×1200@60 1680×1050@60 11920×1080@60 |
| | Output Resolutions | HDMI SMPTE 720p@50/60 11080p@24/25/50/60 12160p@60 VESA 1024×768@60 1280×720@50/60 1280×800@60 1280×1024@60 1360×768@60 11920×1080@50/60 3840×2160@60 |
| | Supported Standard | HDMI 1.3(Input) 12.0(Output) USB 3.0 |
| | Screen Dimension | 5.5 "TFT |
| | Resolution | 1080×1920 pixels |
| | Dot Pitch | 0.063(1-)x0.021(W)(mm) |
| | Aspect Ratio | 16:09 |
| | Brightness | 450cd/m2 |
| | Contrast | 1000:1 |
| | Backlight | LED |
| | View Angle | 80°/80°(L/R)80°/80°(U/D) |

| | | |
|-------------|---------------|--|
| Power | Input Voltage | 9V/2A |
| | Max Power | 18W |
| Environment | Temperature | 0°C-55°C |
| | Humidity | 5%-85% |
| Physical | Weight | Net 350g(without battery);882g(with battery) Package 770g |
| | Dimension | Net 161mmx106mmx36mm Package 255mmx145mmx85mm |

Contact Information

Warranty:

All video products are designed and tested to the highest quality standard and backed by full 1 year parts and labor warranty. Warranties are effective upon delivery date to customer and are non-transferable.

GBlink warranties are only valid to the original purchase/owner. Warranty related repairs include parts and labor, but do not include faults resulting from user negligence, special modification, lighting strikes, abuse(drop/crush), and/or other unusual damages.

The customer shall pay shipping charges when unit is returned for repair.


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Documents / Resources

| | |
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|  <p>TAO 1pro Quick Start</p> <ul style="list-style-type: none">1. Introduction2. Getting Started3. Basic Operation4. Advanced Operation5. Troubleshooting6. Appendix <p>© Xiamen RGBlink Science & Technology Co., Ltd. All rights reserved. 2017.01</p> | <p>RGBlink TAO 1pro Broadcasting Streaming Decoder [pdf] User Guide</p> <p>TAO 1pro, Live Video Streaming Encoder Decoder Video Switcher, TAO 1pro Live Video Streaming Encoder Decoder Video Switcher, TAO 1pro Broadcasting Streaming Decoder, Broadcasting Streaming Decoder, Streaming Decoder</p> |
|--|---|

References

-  [RGBlink](#)
-  [RGBlink](#)
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Manuals+.