

Binary 360 Series 4K HDR Economy  
Extender with IR  
**B-360-1CAT-30**

**BINARY**

## INSTALLATION MANUAL





## IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of fire or electric shock, read and follow all instructions and warnings in this manual. Keep this manual for future reference.

1. Do not expose this apparatus to rain or moisture. Do not expose this equipment to dripping or splashing, and ensure that no objects filled with liquids, such as vases, are placed on the equipment. Do not use this apparatus near water.
2. Do not remove cover. No user serviceable parts inside.
3. Clean only with a dry cloth.
4. Do not block any ventilation openings. Install according to manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
6. Do not override the safety purpose of the polarized or grounding plug. A polarized plug has two blades, one of which is wider than the other. A grounding plug has two matching blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched, particularly at the plug end and where the power cord is attached to the apparatus.
8. Only use attachments and accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled on or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, the apparatus does not operate normally, or it has been dropped.
10. To completely disconnect this equipment from power, disconnect the power supply cord from the power outlet.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



## FCC WARNINGS

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. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## 1. PRODUCT OVERVIEW

Thank you for purchasing this product. For proper installation and optimum performance, please read the instructions in this manual carefully.

B-360-1CAT-30 is a slim transmitter receiver set with HDCP 2.2 compatibility. It supports resolutions up to 4K@60Hz 4:4:4 8bit, and transmits UHD video, HD audio up to 30m/98ft over a Cat 6 or above cable. It also supports bi-directional PoC and one-way IR pass-through.

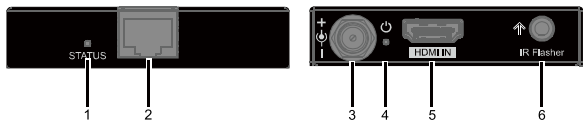
## 2. FEATURES

- Supports video resolutions up to 4K@60Hz 4:4:4 8bit and HDCP 2.2.
- Over a Cat 6/6a/7 cable, transmits 4K@60Hz 4:4:4 8bit up to 30m/98ft.
- Over a Cat 5e/6/7 cable, transmits 1080P@60Hz up to 50m/164ft.
- Supports multichannel audio up to PCM 7.1, Dolby TrueHD and DTS-HD Master Audio.
- Supports one-way IR pass-through from receiver to transmitter.
- Supports bi-directional PoC, one power adapter at either transmitter or receiver side can power both units.
- Slim profile for easy installation.

## 3. PACKAGE CONTENT

- 1 x B-360-1CAT-30 Extender Set
- 1 x DC 12V Power Adapter with US Pins
- 4 x Mounting Brackets (with Screws)
- 4 x Drywall Screws
- 8 x Rubber Feet
- 2 x Power Cord Labels
- 1 x Installation Manual

### 4.1. B-360-1CAT-30 Transmitter



#### 1. STATUS LED

Lights when there's HDMI input.

#### 2. UTP OUT

Connect transmitter to receiver via a Cat 5e/6/7 cable.

#### 3. DC 12V

Connect to the power adapter provided.

#### 4. Power LED

Lights when the device has power.

#### 5. HDMI IN

Connect to an HDMI source device.

#### 6. IR Flasher

Connect to an IR emitter.

## 4.2. B-360-1CAT-30 Receiver



### 1. STATUS LED

Lights when there's HDMI output.

### 2. UTP IN

Connect receiver to transmitter via a Cat 5e/6/7 cable.

### 3. DC 12V

Connect to the power adapter provided.

### 4. Power LED

Lights when the device has power.

### 5. HDMI OUT

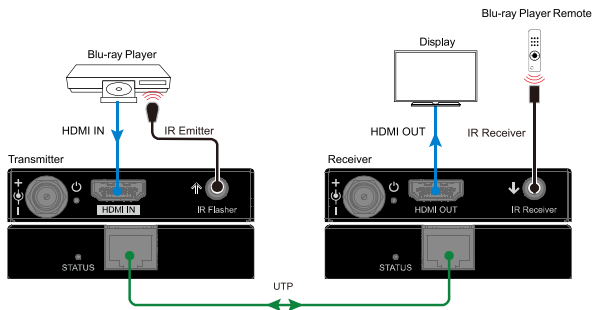
Connect to an HDMI display device.

### 6. IR Receiver

Connect to an IR receiver.



## 5. APPLICATION DIAGRAM



**Note:** Connect a broadband IR receiver to IR Receiver and an IR emitter to IR Flasher.

## 6. SPECIFICATIONS

Video	
Input/Output Signal Type	HDMI 2.0b, HDCP 2.2, 3D
Input/Output Resolution Supported	Up to 4096x2160@60Hz, including 4K@60Hz/4K@30Hz/1080P/1080i/720P
Deep color	4K: 8/10/12 bit 1080P: up to 12 bit
Maximum Data Rate	18 Gbps
Maximum Pixel Clock	600MHz

Audio	
Audio Format Supported	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X

General	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±15kV (Air-gap discharge)
Power Supply	DC 12V 2A
Power Consumption (Max)	6.48W (Pair, PoC)
Device Dimension (W x H x D)	70mm x 15.2 mm x 90mm/ 2.76" x 0.60" x 3.54" each for TX/RX
Product Weight	0.15kg/0.33lb each for TX/RX

### 6.1. Transmission Distance

**Note:** T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 5e	50m/164ft	1080P@60Hz
Cat 6/6a/7	30m/98ft 50m/164ft	4K@60Hz 1080P@60Hz
HDMI	recommended max length of 3m/10ft	all supported resolutions

## 7. WARRANTY

### 2-Year Limited Warranty

This Binary product has a 2-Year limited warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products that have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

## 8. SUPPORT

### Need Help? Contact Tech Support!

If you need further clarification, please call tech support at **800.838.5052**, or email **support@snapav.com**. For other information, instructional videos, support documentation, or ideas, visit our website and view your item's product page at **www.snapav.com**.

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