

## **BRIGHTLINK 1x2 HDMI Splitter Over Single Cat5e/6 Cable**

**Up to 50M with IR**

**Model: BL-SPL1X2-CAT**

**Operating Instructions**



**BRIGHTLINKAV.COM**



### **Notice**

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied.

**Features**

- Distribute 1 HDMI signal to 2 identical UTP outputs synchronously, with 1xlooping HDMI output.
- Transmit over 50m single Cat5e/6 cable.
- Can be cascaded for 4 layers.
- With wide-band Bi-Direction IR control (38 ~ 56 kHz).  
(IR extension from Sender to Receiver or from Receiver to Sender)
- Support Full HD 1080p, VESA resolution: 1920x1200.
- Supports Dolby<sup>®</sup> TrueHD, DTS-HD<sup>®</sup> Master Audio.<sup>™</sup>
- Support 3D.

**Package Contents**

- 1 x HDMI Splitter
- 1 x 5V DC Adapter
- 1 x User Manual

**LIMITED WARRANTY LIMITS AND EXCLUSIONS**

1) This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

2) THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)

3) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

## MAINTENANCE

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

## PRODUCT SERVICE

### 1) Damage requiring service:

The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;
- (e) The unit has been dropped or the cabinet damaged.

2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

## WARRANTY

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor" ) will, for the length of the period indicated as below, **(Parts(2)Year, Labor(90) Days)** which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new of a refurbished product. The decision to repair or replace will be made by the warrantor. During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

## MAIL-IN SERVICE

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

## SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Operating Temperature Range | -5 to +35°C(+23 to +95°F)   |
| Operating Humidity Range    | 5 to 90%RH (No Condensation)  |
| Video Amplifier Bandwidth   | 140MHz  |
| Input Video Signal          | 0.5-1.0 Volts P-P   |
| Input DDC Signal            | 5 volts p-p(TTL)  |
| Data transfer speed rate    | 6.75 Gbps(Maximum)  |
| Input port                  | 1xHDMI  |
| Output ports                | 2xCat5e/6, 1xHDMI   |
| Video Format Supported      | DTV/HD TV: 720P/1080i/1080P<br>VESA resolution:1920x1200 <sup>①</sup><br>3D video support |
| Vertical Frequency range    | 60Hz  |
| Support Audio Format        | DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, stereo etc <sup>②</sup>            |
| Transmission Distance       | 1080P 8-bit 50m<br>Over single cat5e or cat6 cable/24AWG/Solid <sup>③</sup>               |
| Power consumption           | 6W(Max)   |
| Dimension (L×W×H)           | L149xW 79xH28mm   |
| Net Weight                  | 317.7g  |

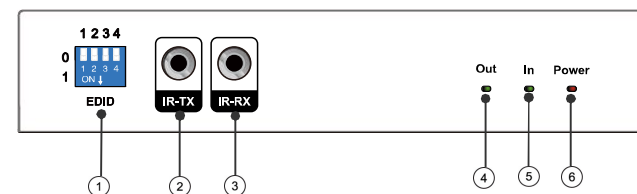
Note: ① The transmission distance is Max 40m under 1920x1200 resolution.

② The distance is 40m under 5.1CH or 7.1CH.

③ Under perfect transmission conditions including straight cable runs with no electrical interference, bends, kinks, patch panels or wall outlets.

## PANEL DESCRIPTIONS

### Front Panel



1. DIP switch for EDID setting

3. IR-RX port

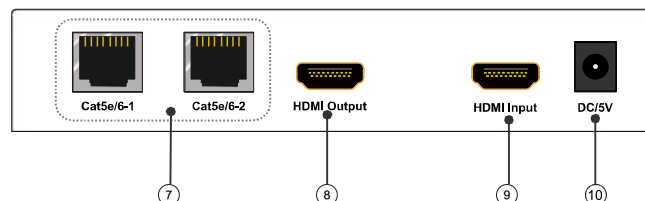
5. Indicator of HDMI input

2. IR-TX port

4. Indicator of HDMI output

6. Power input indicator

## Rear Panel



7. CAT-5E/6 out ports  
9. HDMI input

8. HDMI output  
10. Power input

## DIP Switch for EDID Setting

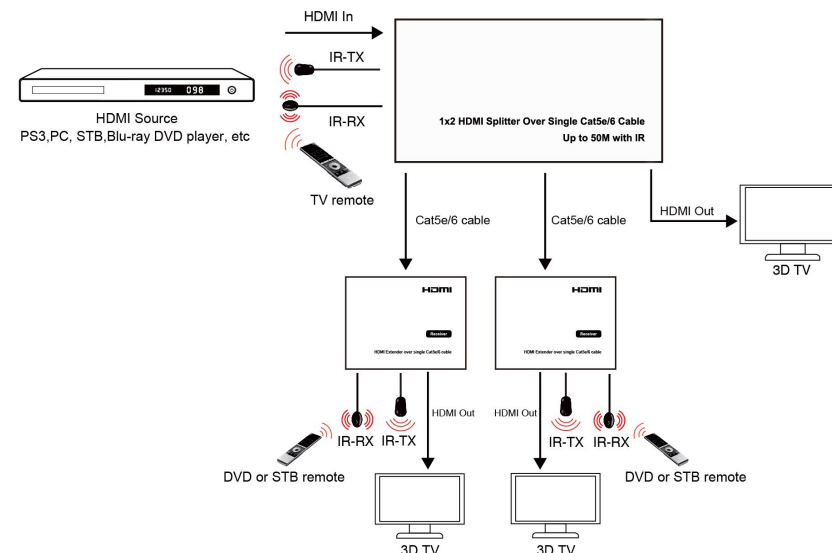
| DIP Switch | EDID                  |
|------------|-----------------------|
| 0000       | Default (1080P2D 2ch) |
| 0001       | Copy from HDMI output |
| 0010       | 1080P2D 2CH           |
| 0011       | 1080P2D 6CH           |
| 0100       | 1080P2D 8CH           |
| 0101       | Reserved              |
| 0110       | 1080P3D 2CH           |
| 0111       | 1080P3D 6CH           |
| 1111       | 1080P3D 8CH           |

## Connecting and operating

- 1) Connect the HDMI input source into HDMI splitter.
- 2) Connect HDMI splitter and receiver by single cat5e/6 cable (The cable termination must follow the standard of EIA/TIA 568B).
- 3) Connect the HDMI display (such as HD-LCD/HD-DLP) into the HDMI output of receiver.
- 4) Connect the Loop HDMI output port of HDMI Splitter with the HDMI Display (such as HD-LCD/HD-DLP) by HDMI cable.
- 5) Plug IR TX cable and IR RX cable to IR port of the Splitter.
- 6) Plug IR TX cable and IR RX cable to IR port of the Receiver.
- 7) Insert the DC 5V power supply into HDMI splitter and receiver.

## Connection Diagram

## Application 1:



## Application 2: Cascade for 4 layers

