



USER MANUAL



BK HDR4x2 HDMI MATRIX WITH AUDIO EXTRACTOR
JTDID - 2930 | JTECH - BK42A

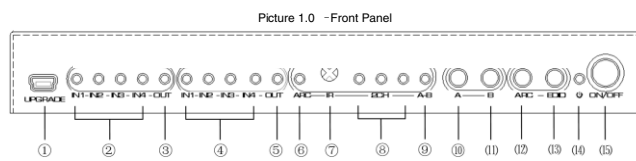


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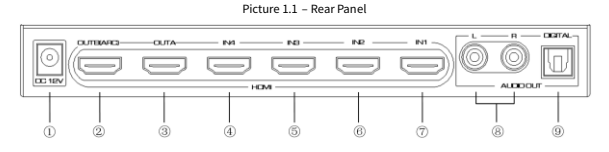
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1. Interface & Features



No.	Description	Introduction
①	Mini USB port	Only for factory upgrade
②	HDMI input indicator for channel A	The selected input channel indicator will light up
③	HDMI output indicator for channel A	Lighting when HDMI OUT A has signal output
④	HDMI input indicator for channel B	The selected input channel indicator will light up
⑤	HDMI output indicator for channel B	Lighting when HDMI OUT B has signal output
⑥	ARC status indicator	Lighting when ARC on
⑦	IR receiving window	Receive the commands sent by the infrared remote control
⑧	EDID mode indicators	Includes three audio EDID modes: PASS, 2CH, S, LCH
⑨	Audio source channel indicator	Lighting when audio output relative to HDMI OUT A. Light off is relative with HDMI OUT B.
⑩	Input selection key of channel A	Loop to select the input channel of HDMI OUT A
⑪	Input selection key of channel B	Loop to select the input channel of HDMI OUT B
⑫	ARC on/off key	HDMI ARC (Audio return channel) function on/off.
⑬	EDID mode selection key	Supports three audio EDID mode switching: PASS, 2CH, S, LCH

④	Power status indicator	Lighting when power on
⑤	Power switch	Power self-lock switch Press to turn on Press again to turn off



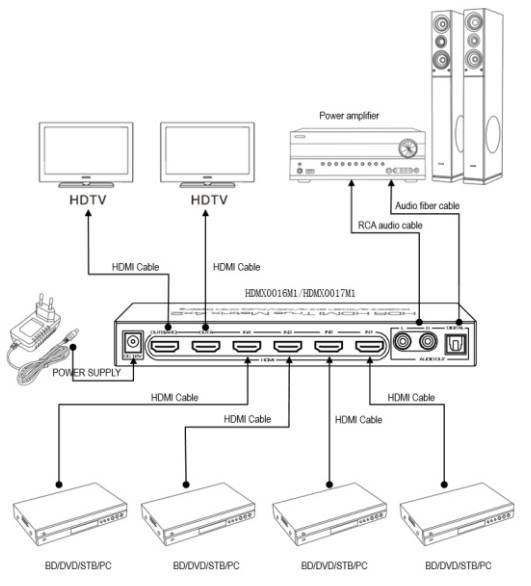
No.	Description	Introduction
①	Power jack	Requires 5-12V power supply
②	HDMI output port B	Connects to monitor with HDMI port. This port also supports ARC
③	HDMI output port A	Connects to your source device by HDMI cable
④	HDMI input port 4	Connects to your source device by HDMI cable
⑤	HDMI input port 3	Connects to your source device by HDMI cable
⑥	HDMI input port 2	Connects to your source device by HDMI cable
⑦	HDMI input port 1	Connects to your source device by HDMI cable
⑧	Analog audio ports	Synchronized output stereo analog audio, contains left and right channels
⑨	Digital audio port	Synchronized output digital audio by fiber optic

Picture 1.4 - Remote Control Function

Remote keys	Panel keys	Functional description
Power	/	Power standby on/off button
A/B	Press AUDIO key more than 3 seconds	Select A/B for the audio output source channel
ARC	Press ARC key	ARC turn on / turn off
PASS	Press AUDIO key	Audio EDID PASS mode The audio output format is determined by the EDID information of the TV.
2CH		Audio EDID 2CH mode Priority output stereo audio in this mode.
S, LCH	Press AUDIO key	Audio EDID S, LCH mode Priority output S channel to stream in this mode. The analog output ports have no output now.
1/2/1/4	Press A/B key	Input source selection of A/B output channel
ON	Press A/B key more than 3 seconds	HDMI e compatibility mode turn on/off Try to turn on this mode when there is a problem using both HDMI e signal source and HDMI d TV. When turned on, the S, LCHs in group A/B will flash 4 times at the same time, and flash twice when turned off
ON/OFF	/	HDMI A/B output port enabled or disabled

Note: Please take out the film at the rear of the remote before use. You may reinsert the film to the rear of the remote if the remote is not going to be used for a long time.

2. Connection & Operation Diagram



3. Important Operation Information

- Please use a standard HDMI cable and connect the cable before powering the equipment
- In Matrix mode (outputs of A and B are different in this mode), output ports A and B cannot output BK signals at the same time. Only one group is allowed to output BK and the other group will output 4K or a lower resolution.
- The product has a power off memory function. The setting state of the output channel is recorded and saved. After the power is turned off, the saved data will be automatically retrieved for configuration
- The "Audio Out" is a set of multiplexed ports that allow you to select HDMI Out A/B sound outputs by using the "A/B" key
- The "Audio EDID" mode selection is also available for multiplexed. When the audio source selects channel A, the audio EDID mode is valid for channel A. Similarly, when the audio source selects channel B, the audio EDID mode is valid for channel B
- Analog audio can only be output when the incoming audio format is LPCM, so it is recommended to choose the EDID mode in 2CH mode when using analog audio output
- If you want to use the ARC or CEC function, you must connect the TV to the "Out A" port of the matrix. Before using ARC, make sure that your TV's HDMI port supports ARC and the ARC function is turned on

4. Unit Specifications

Model No.	JTECH-BK42A
Model name	BK HDR 4x2 HDMI Matrix with Audio Extractor
Input ports	HDMI 4
Output ports	HDMI 2 RCA x2 Optical x1
Video format	480P/720P/1080P/2160P @ 24/25/30/50/60/100/120Hz Up to 4320P @ 50/60Hz. Supports HDR/Dolby Vision
Deep color	8/10/12/16Bit @ 2160P 8/10/12/16/32Bit
Audio format	Dolby HD/DTS HD/Dolby Atmos/Dolby AC3/DTS/LPCM Etc.
Transmitter bandwidth	120MHz Max.
Transmission rate	48Gbps Max.
IR distance	<5m
Input cable length	2160P/AWG 28 <= 5m 1080P/AWG 28 <= 10m
Output cable length	2160P/AWG 28 <= 5m 1080P/AWG 28 <= 12m
Power adapter specification	Input: AC 100-240V Output: DC 12V/1.5A
Max working current	500mA
Working temperature range	-5 ~ +40 °C
Working humidity range	5 to 85%RH (No Condensation)
Storage temperature	-15 to 55 °C
Storage humidity	5-95%RH (No Condensation)
Size	250x75x30 (mm)
Weight	440g
Accessories	Manual, Remote, Power Adapter

5. Maintenance

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

6. Product Service

- Damage repairing service: The unit should be serviced by qualified service personnel if:
 - The DC power supply cord or AC adapter has been damaged;
 - Objects or liquids have gotten into the unit;
 - The unit has been exposed to rain;
 - The unit does not operate normally or exhibits a marked change in performance;
 - The unit has been dropped or the cabinet damaged.
- Service Personnel: Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- Replacement Parts: When parts need replacing, ensure that the service 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.
- Safety check: After repairs or service, ask the service to perform safety checks to confirm that the unit is in proper working condition.

7. 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 (1) 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 or 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 your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

8. 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.

9. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material 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 Service, or damage that is attributed to acts of God.

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

10. Extended Warranty

With the registration of supported J-Tech Digital products, you extend the current warranty by 6 months. This extension is added to the warranty that starts at the purchase date of the device supported. Total product warranty with the extended period will equate to a total of 18 months of warranty from the date of purchase.

For extended warranties to be accepted, all warranty extensions must be claimed within 30 days of purchasing the eligible J-Tech Digital product. Extensions attempted to be claimed outside of the 30-day window will not be accepted. Visit www.jtechdigital.com to register your extended warranty.



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