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ALFATRON ELECTRONICS GmbH GERMANY

ALF-B20K HDMI Booster



Statement

Thanks for purchasing this product, please read this user manual carefully before use. We reserve the right to make function or parameters changes without notice or obligation.

Safety Precaution

- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit.
- Always unplug the power to the device before cleaning.
- Unplug the power when not used for a long period of time.
- Refer all servicing to qualified service personnel.

Introduction

The B20K is an HDMI 2.0 booster designed to extend 4k×2k@60Hz 4:4:4 signal up to 20m, and 4k×2k@30Hz signal up to 35m over HDMI2.0 cables, being powered by HDMI source, and the HDMI cables should support 18Gbps.

Feature

- Supports HDMI2.0, HDCP2.2 compliant.
- The total transmission distance of 4k@60Hz 4:4:4 signal is up to 20m, and the maximum distance from HDMI output to display supports 10m.
- The total transmission distance of 4k@30Hz signal is up to 35m, and the maximum distance from HDMI output to display supports 15m.
- The total transmission distance of 1080p signal is up to 50m, and the maximum distance from HDMI output to display supports 30m.
- No need of any external power supply, simplifying the installation and operation.

Package Content

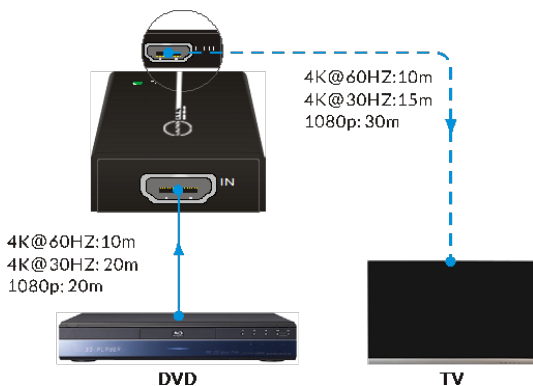
- 1 x B20K
- 1 x Velcro Tape
- 1 x User Manual

Panel Description



- ① INPUT: Connect with HDMI source
- ② Power LED: GREEN when powered on
- ③ OUTPUT: Connect with HDMI display

System Diagram



Specifications

Input & Output	
Input	(1) HDMI
Input Connector	(1) 19-pin type-A female HDMI
Output	(1) HDMI
Output Connector	(1) 19-pin type-A female HDMI
General	
Transmission Distance	4Kx2K@60Hz 4:4:4≤ 20m; 4Kx2K@30Hz 4:4:4≤ 35m; 1080p≤ 50m
HDMI Standard	HDMI2.0
HDCP Standard	Input supports HDCP2.2
Bandwidth	18Gbps
Work Temperature	0~40°C
Storage Temperature	-10~55°C
Relative Humidity	10%-90%
Dimensions (W*H*D)	35.5mm x 12 mm x 49 mm
Net Weight	52g

Product Limited Warranty: We warrants that our products will be free from defects in materials and workmanship for **seven years**, which starts from the first day the product leaves warehouse (check the SN mark on the product).Proof of purchase in the form of a bill of sale or receipted invoice must be presented to obtain warranty service.

1) What the warranty does not cover:

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
 - ✓ Normal wear and tear
 - ✓ Use of supplies or parts not meeting our specifications
 - ✓ No certificate or invoice as the proof of warranty.
 - ✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - ✓ Damage caused by force majeure.
 - ✓ Servicing not authorized
 - ✓ Other causes which does not relate to a product defect
- Delivery, installation or labor charges for installation or setup of the product

2) Technical Support: Email to our after-sales department or make a call, please inform us the following information about your cases.

- Product version and name.
- Detailed failure situations.
- The formation of the cases.

Remarks: For any questions or problems, please try to get help from your local distributor.

Limited warranty in respect of Alfatron

Products Only

1.1 This limited warranty covers defects in materials and workmanship in this product.

1.2 Should warranty service be required, proof of purchase must be presented to the Company. The serial number on the product must be clearly visible and not have been tampered with in any way whatsoever.

1.3 This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by the Company to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover equipment enclosures, cables or accessories used in conjunction with this product.

This limited warranty does not cover the cost of normal maintenance. Failure of the product due to insufficient or improper maintenance is not covered.

1.4 The Company does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

1.5 Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

1.6 Unless otherwise specified, the goods are warranted in accordance with the manufacturer's product specific warranties against any defect attributable to faulty workmanship or materials, fair wear and tear being excluded.

1.7 This limited warranty only covers the cost of faulty goods and does not include the cost of labor and travel to return the goods to the Company's premises.

1.8 In the event of any improper maintenance, repair or service being carried out by any third persons during the warranty period without the Company's written authorization, the limited warranty shall be void.

1.9 A 7 (seven) year limited warranty is given on the aforesaid product where used correctly according to the Company's instructions, and only with the use of the Company's components.

1.10 The Company will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1.10.1 Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition.; or

1.10.2 Replace this product with a direct replacement or with a similar product deemed by the Company to perform substantially the same function as the original product; or

1.10.3 Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

1.11 The Company is not obligated to provide the Customer with a substitute unit during the limited warranty period or at any time thereafter.

1.12 If this product is returned to the Company this product must be insured during shipment, with the insurance and shipping charges prepaid by the Customer. If this product is returned uninsured, the Customer assumes all risks of loss or damage during shipment. The Company will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. The Company will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

1.13 Please be aware that the Company's products and components have not been tested with competitor's products and therefore the Company cannot warrant products and/or components used in conjunction with competitor's products.

1.14 The appropriateness of the goods for the purpose intended is only warranted to the extent that the goods are used in accordance with the Company's installation, classification and usage instructions.

1.15 Any claim by the Customer which is based on any defect in the quality or condition of the goods or their failure to correspond with specification shall be notified in writing to the Company within 7 days of deliver or (where the defect or failure was not apparent on reasonable inspection by the Customer) within a reasonable time after discovery of the defect or failure, but, in any event, within 6 months of delivery.

1.16 If delivery is not refused, and the Customer does not notify the Company accordingly, the Customer may not reject the goods and the Company shall have no liability and the Customer shall pay the price as if the goods had been delivered in accordance with the Agreement.

1.17 THE MAXIMUM LIABILITY OF THE COMPANY UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT