



ALF-CHKA2

18G HDMI Audio De-embedder

User Manual



Statement

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only, different model and specifications are subject to real product. This manual is only for operation instruction only, not for any maintenance usage. In the constant effort to improve our product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies or parts not meeting the product's' 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 cord when left unused for a long period of time.
- Refer all servicing to qualified service personnel.

After-sales Service

We provide limited warranty for the product within **three years** counting from the first day you buy this product (The purchase invoice shall prevail).

Introduction

The ALF-CHKA2 is a small-size HDMI 2.0 audio de-embedder with 1 HDMI input, 1 HDMI output, and three kinds of audio outputs. It is designed to extract audio from 4K HDMI signal via stereo balanced L/R audio, analog RCA, and coaxial digital audio output ports.

It supports 4K@60Hz/4:4:4 HDR, EDID & CEC pass-through, and the transmission rate is up to 18Gbps. Moreover, there are three audio modes can be chosen in order to be compatible with various audio processing device.

Features

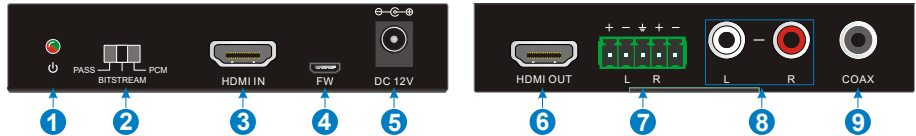
- Supports stereo balanced L/R audio, analog RCA, and coaxial digital audio output ports.
- Supports three audio modes PASS, BITSTREAM, and PCM.
- HDMI input supports HDCP2.2, and the output supports HDCP1.4.
- Supports HDMI2.0 4K@60Hz/4:4:4 HDR, EDID & CEC pass-through.
- The transmission rate is up to 18Gbps.

Package List

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact your distributor for a replacement.

- 1 x ALF-CHKA2
- 1 x 5-pin Phoenix Connector
- 1 x User Manual
- 1 x Power Adaptor (12VDC,1A)
- 4 x Plastic Cushions

Panel Description

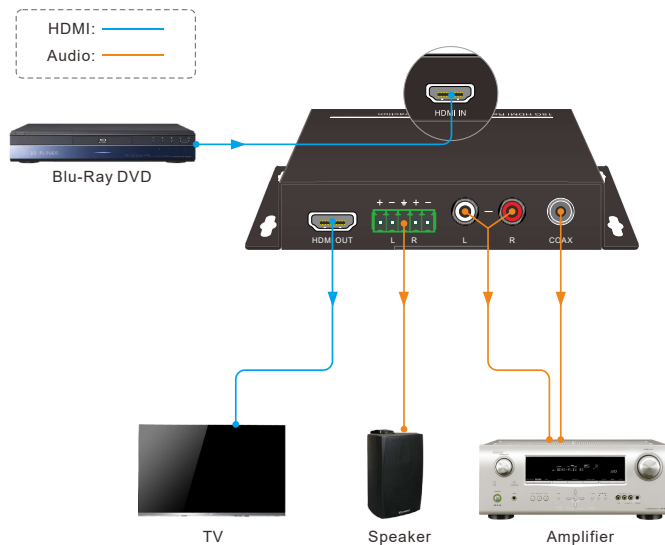


- ① Bicolor LED: RED when powered on, GREEN when HDMI signal input.
- ② Audio Modes Switcher:
 - PASS (default): The source device obtains its EDID from display.
 - BITSTREAM: If the display only supports PCM, and the format of audio source is DTS/Dolby, the switcher should be turned to BITSTREAM to ensure the DTS/Dolby audio can be output via HDMI and coaxial digital audio ports (⑥&⑨), there will be no audio output on analog audio ports(⑦&⑧).
 - PCM: If the digital audio need to be output via analog audio ports (⑦&⑧), the switcher should be turned to PCM, and the coaxial audio port (⑨) will also output PCM audio.
- ③ HDMI IN: Connect with HDMI source.
- ④ FW: Firmware upgrade.
- ⑤ DC 12V: Connect with the included power adaptor.
- ⑥ HDMI OUT: Connect with HDMI display.
- ⑦ L/R: Stereo balanced L/R audio output.
- ⑧ L/R: analog RCA audio output.
- ⑨ COAX: Coaxial digital audio output.

Specification

| Video | |
|--------------------|--|
| Input | (1) HDMI |
| Input Connector | (1) 19-pin type-A female HDMI 2.0, HDCP2.2 |
| Output | (1) HDMI |
| Output Connector | (1) 19-pin type-A female HDMI 2.0, HDCP1.4 |
| Audio | |
| Output | (1) Stereo balanced audio L/R; (1) Analog audio L+R ; (1) COAX |
| Output Connector | (1) 5-Pin phoenix connector; (1) RCA ; (1) Coaxial audio connector |
| Audio Format | Support Dolby D (True HD)/ DTS (HD-Master Audio)/ PCM |
| General | |
| Max data rate | 18Gbit/s |
| Max Resolution | 4Kx2K@60Hz 4:4:4 |
| Temperature | -10~ 55℃ |
| Reference Humidity | 10% ~ 90% |
| Power Consumption | 3 W (Max) |
| Power Supply | Input: 100VAC~240VAC, 50/60Hz; Output: 12VDC 1A |
| Dimension (W*H*D) | 129mm x 21.5 mm x77 mm |
| Net Weight | 244g |

System Diagram



Note: This picture is for reference only, the specific scheme is subject to real devices.

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 reinstallation 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 delivery 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.