

ALFATRON
ALF-IPK1HE 4K
HDMI over IP
Encoder and
Decoder



ALFATRON ALF-IPK1HE 4K HDMI over IP Encoder and Decoder Instruction Manual

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ALFATRON ALF-IPK1HE 4K HDMI over IP Encoder and Decoder



Specifications

- **Resolution:** Supports up to 4K@30Hz
- **Compression Technology:** H.265
- **Control App:** VDirector App (IOS version)
- **Applications:** Sports bars, conference rooms, digital signage, etc.

Product Overview

The ALF-IPK1HE and ALF-IPK1HD are networked AV encoder/decoder devices that utilize the latest H.265 compression technology. They support resolutions up to 4K@30Hz and can be controlled using the VDirector App on IOS devices. These devices are ideal for creating IP matrices or video walls with fast switching capabilities, making them suitable for various applications such as sports bars, conference rooms, and digital signage.

Introduction

Overview

ALF-IPK1 / ALF-IPK1HD is a networked AV encoder/decoder adopting the latest H.265 compression technology. The encoder/decoder supports resolution up to 4K@30Hz and supports using the VDirector App (IOS version) to control, users can easily build an IP matrix or a video wall on iPad. Fast and seamless switching, easy-to-use and plug-n-play features, the encoder and decoder can be widely used in sports bars, conference rooms, digital signages, etc.

Package Contents

Before you start the installation of the product, please check the package contents:

Encoder: ALF-IPK1HE

- ALF-IPK1HE Encoder x 1
- Power Adapter (DC 12V 1A) x 1
- Exchangeable US Plug x 1
- Exchangeable EU Plug x 1
- Phoenix Male Connectors (3.5 mm, 3 Pins) x 2
- Mounting Ears (with Screws) x 2
- User Manual x 1

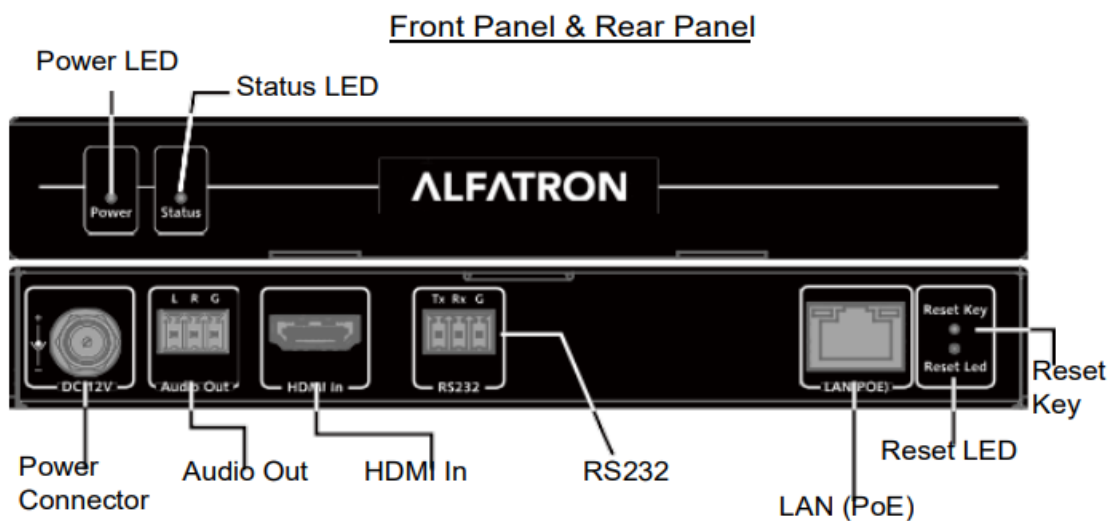
Decoder: ALF-IPK1HD

- ALF-IPK1HD Decoder x 1
- Power Adapter (DC 12V 1A) x 1
- Exchangeable US Plug x 1
- Exchangeable EU Plug x 1
- Phoenix Male Connectors (3.5 mm, 3 Pins) x 2
- Mounting Ears (with Screws) x 2
- User Manual x 1

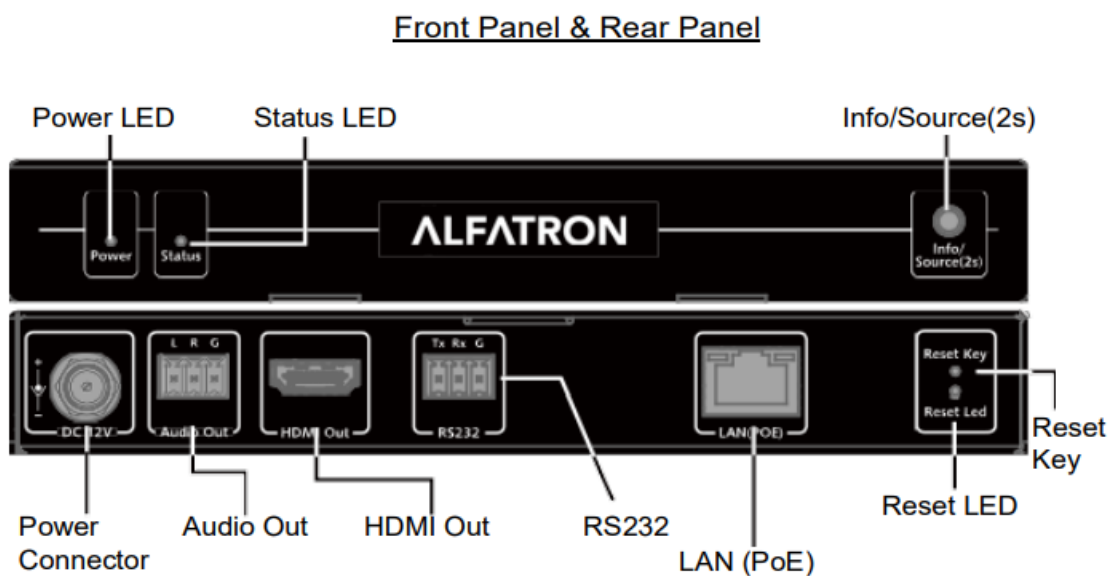
Panel

Encoder

Encoder



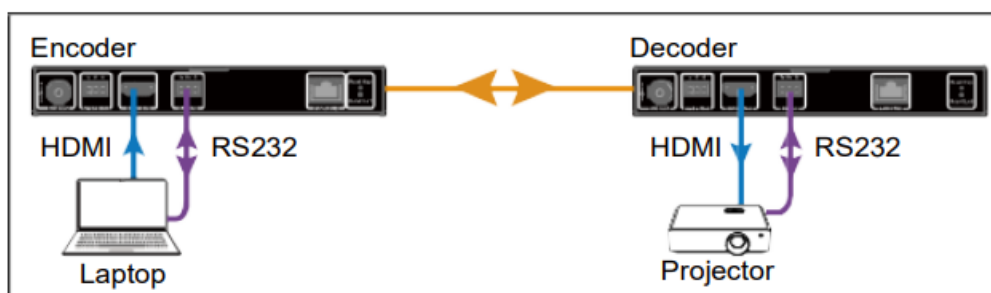
Decoder



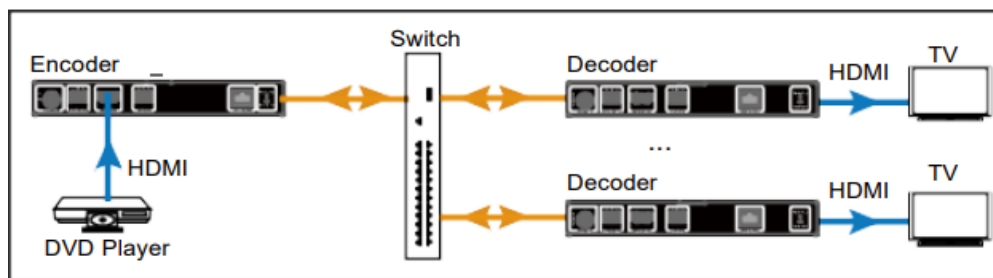
Info/Source (2s) Key: Short press to display/remove on screen information display of decoder; Press and hold for 2 seconds to change the current paired encoder.

Application

a. 1 – 1: Extender



b. 1 – n: Splitter

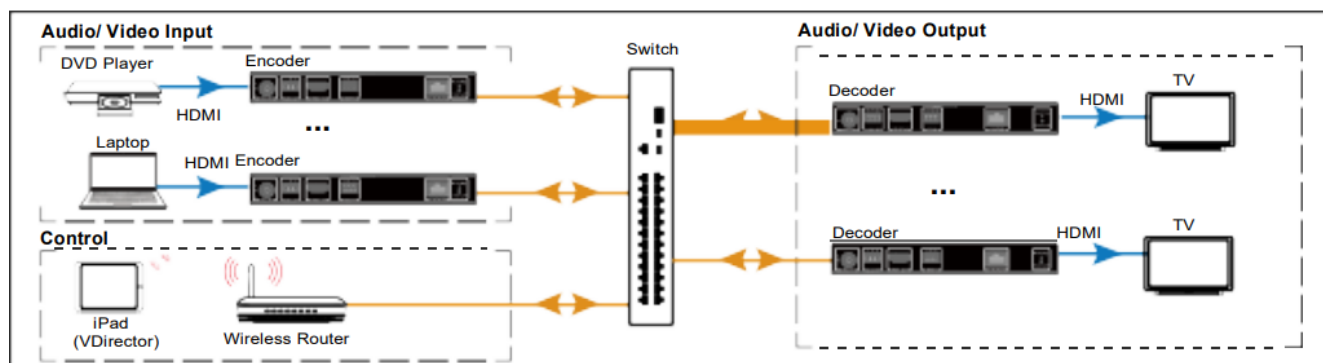


c. m – n: Matrix/Video Wall

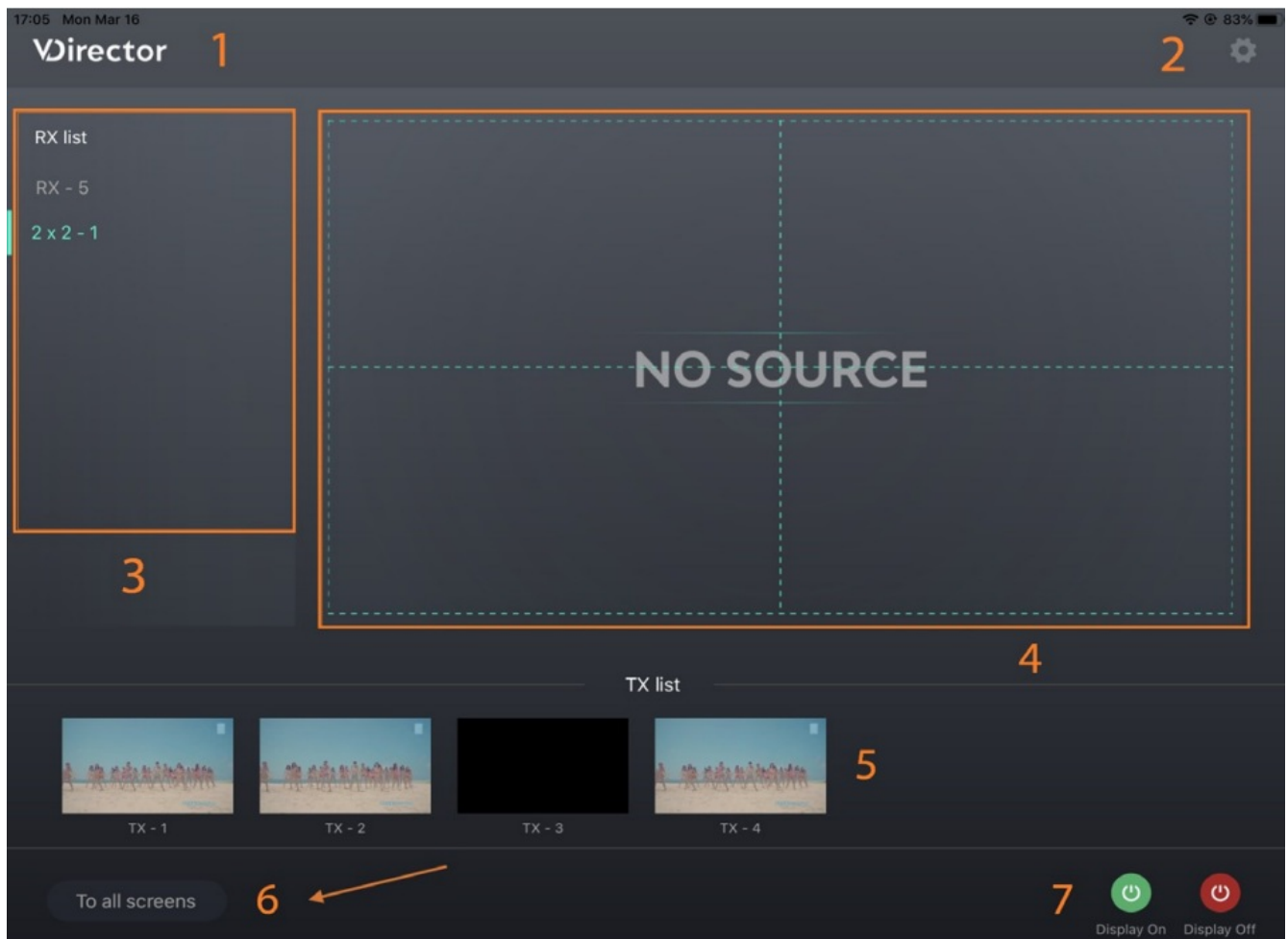
To configure the matrix and video wall, perform the following:



1. Scan the QR code or search “VDirector” in the Apple App Store with your iPad to install the VDirector.
2. Connect all encoders, decoders, and the wireless router to the network switch according to the following diagram:



3. Configure the wireless router accordingly, and then connect your iPad to the Wi-Fi network. Launch the VDirector on iPad,
4. the VDirector will start searching for online devices, and the following main screen will appear:



No.	Name	Description
1	Logo	This logo can be changed to a new one.
2	System Configuration Button	Click this button to enter system configuration page for the functions: 1) Naming and Sequencing; 2) Video Wall Settings; 3) Advanced Settings; 4) System Information;
3	RX List	Shows the list of online RX devices, including single devices and devices for video walls.
4	RX Preview	Shows the live preview of current RX assignments.
5	TX List	Shows the IP stream's live preview from TX device.
6	To All Screens	Drag a TX from TX list over this button means the switching of this TX to all RX devices in RX list, including video walls.
7	Display On/Off	<ul style="list-style-type: none"> Display On: Turn on all RXs' displays. Display Off: Set all RXs' displays to standby state.

Specification

Video	Encoder	Decoder
Input Port	1 x HDMI	1 x LAN
Input Resolutions	up to 4K@30Hz	up to 4K@30Hz
Output Port	1 x LAN	1 x HDMI
Output Resolutions	up to 4K@30Hz	up to 4K@30Hz
Video Protocol	H.265 Video Compression	

Audio	Encoder	Decoder
Input Port	1 x HDMI	1 x LAN
Output Port	1 x LAN, 1 x Line Out	1 x HDMI, 1 x Line Out
Audio Format	MPEG4-AAC Stereo	

Control	
Control Method	VDirector App(iOS/Android/Windows Version)

General	
Operating Temperature	+32°F ~ +113°F (0°C ~ +45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing
Power Supply	DC12V 1A /PoE
Power Consumption	Encoder: 5W (Max) Decoder: 6W (Max)
ESD Protection	Human body model: • ±8kV (air-gap discharge) • ±4kV (contact discharge)
Product Dimension (W x H x D)	175mm x 25mm x 100.2mm/ 6.9" x 0.98" x 3.9" each for encoder and decoder
Net Weight	0.60kg/1.32lbs each for TX and RX

Trouble Shooting

1. Do the network switch and the wireless router require specific settings?

The network switch does not require specific settings. If the wireless router enables DHCP function, ensure the DHCP IP address assignments does not start with "169.254".

2. Why can't the director find online devices?

Ensure the network switch's broadcasting function is not disabled intentionally.

3. Do the encoder and decoder support RS232 routing?

Yes. RS232 and audio routing will always follow video routing.

4. Is it also possible to configure the video wall to the 1-n application?

Yes.

5. What is the limitation of Video over IP devices on a network? Limitless except that one encoder cannot be assigned to more than 50 decoders simultaneously.

Note: As the number of the assigned decoders increases, the end-to-end latency increases accordingly.

6. May I change the matched encoder for a decoder without using the VDirector app?

Yes. The matched encoder will change by simply holding on to the ID key (labeled 'Info/Source (2s)') in the front panel of a decoder for 2 seconds.

Warranty

Limited warranty in respect of Alfatron Products Only

1. This limited warranty covers defects in materials and workmanship on this product.
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.
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 courier), 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.

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.
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.
6. Unless otherwise specified, the goods are warranted by the manufacturer's product-specific warranties against any defect attributable to faulty workmanship or materials, fair wear and tear being excluded.
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.
8. In the event of any improper maintenance, repair or service being carried out by any third person during the warranty period without the Company's written authorization, the limited warranty shall be void.
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.
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:
11. Elect to repair or facilitate the repair of any defective parts within a reasonable period, 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
12. 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.
13. The Company is not obligated to provide the Customer with a substitute unit during the limited warranty period or at any time thereafter.
14. 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 of this product, any adjustment of user controls or any programming required


for a specific installation of this product.

15. 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.
16. The appropriateness of the goods for the purpose intended is only warranted to the extent that the goods are used by the Company's installation, classification and usage instructions.
17. 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.
18. 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 by the Agreement.
19. THE MAXIMUM LIABILITY OF THE COMPANY UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT.

Frequently Asked Questions

- **Q: Can I use the encoder and decoder in a conference room setup?**
 - **A:** Yes, the ALF-IPK1HE and ALF-IPK1HD are suitable for conference room applications due to their high-resolution support and easy setup features.
- **Q: How do I clean the device?**
 - **A:** Clean the device only with a dry cloth to avoid damage from moisture. Do not use any liquid cleaners on the device.

Documents / Resources

 <p>www.alfatronelectronics.com ALFATRON ELECTRONICS GmbH & Co. KG ALF-IPK1HE and ALF-IPK1HD 4K HDMI over IP Encoder and Decoder</p>	<p>ALFATRON ALF-IPK1HE 4K HDMI over IP Encoder and Decoder [pdf] Instruction Manual ALF-IPK1HE, ALF-IPK1HD, ALF-IPK1HE 4K HDMI over IP Encoder and Decoder, ALF-IPK1HE , 4K HDMI over IP Encoder and Decoder, IP Encoder and Decoder, Encoder and Decoder, and Decoder, Decoder</p>
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References

- [User Manual](#)

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