

EXT-AVIPH264RX USER MANUAL



H.264 HDMI® Decoder over IP w/ POE & RS-232

All Rights Reserved

Version: Ext-AVIPH264TX_2017V1.0

KANEXPRO **Preface**

Read this user manual carefully before using this product. Pictures displayed in this manual are for reference only. Different models and specifications are subject to the actual product.

This manual is only for operational instruction, not for any maintenance usage. The functions described in this version are updated till June 2016. Any changes of functions and parameters since then will be informed separately. Please refer to the dealers for the latest details.

All product function is valid till 2017-6-2.

Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without the prior written consent.

FCC Statement

This equipment can generate, use, and radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

CE





KANEXPRO SAFETY PRECAUTIONS

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

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- 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. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain or moisture. Do not install this product near water.
- Do not place any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheating.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist/pull by force the ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power cord to the device before cleaning.
- Unplug the power cord when left unused for a long period.
- Information on disposal for scrapped devices: Do not burn or mix with general household waste; please treat the devices as normal electrical waste.

EXT-AVIPH264RX

Table of Contents

1. Introduction	5
1.1 Introduction to EXT-AVIPH264RX	5
1.2 Features	5
1.3 Package Content	6
2. Specifications	6
3. Panel Description	8
3.1 TX Panel	8
3.2 RX Panel	8
3.3 Panel Drawing	10
4. Installation and Configuration	11
5. RS232 and Baud Rate	18
6. Firmware Update	18
7. PC Tool Instructions	19
8. After-sales Service Warranty	26
9. How To Use VLC	27
10. Warranty	31

Introduction

1.1 Introduction to EXT-AVIP264RX

The KanexPro EXT-AVIPH264RX is a DHCP enabled AV over IP Decoder with HDMI output to display and Ethernet. This decoder uses advanced H.264 compression algorithm to transmit full HD 1080p from HDMI based displays with less bandwidth over LAN network. It supports PoE (power over Ethernet) with distances over a single CATx up to 394 ft. (120m) delivering one to one, one to many and many to many over the Ethernet switch.

1.2 Features

- Encode and extend pure 1080p resolutions up to 394' / 120 meters
- Features real-time AV coding and decoding to broadcast 1080p
- H.264 Compression technology
- Can be used with DVI connection
- Supports one to many, many to many and point to point broadcasting
- Dual power input: 802.3af compliant w/ POE & DC 5V
- (No need power supply when connecting with POE Switch)
- Can be cascaded to multiple AV over IP Extenders
- Support LPCM audio format
- Smart IP Address Setting: Dynamic Host Configuration Protocol (DHCP)
- Wide-band IR pass through to control the source (38khz to 56khz)
- By pass 2 way UART/RS232 (Up to 115200), use remote controller to select 8 group Baud rate
- Support one to one, one to many, many to one, many to many modes, with large cascading.

1.3. Packing Content

- 1). 1x Transmitter
- 2). 1x Receiver
- 3). 1x IR-TX cable
- 4). 1x IR-RX cable
- 5). 2X IR Ext Cable
- 6). 1x Manual
- 7). 8x screws
- 8). 4x detachable mounting ears
- 9). 2x Phoenix plugs for RS232 cable termination
- 10). 2x Remote controller

EXT-AVIPH264RX

KANEXPRO

11). 2x Power adapter 5V 1A

2. Specifications

Performance	
Protocol	H.264 encoder over TCP/IP
Support Video format	480i/480p/576i/576p/720p/1080i/1080
	p@60HZ
Support Audio format	LPCM, Audio sampling rate 48KHZ
Streaming Bit Rate	15Mbps
HDCP	Compliant
IR Frequency	38 -56 KHZ
RS232 Baud rate	Default 2400bps, total 8 options
IP setting & Group ID setting	
Default IP	TX: 192.168.1.11 ; RX: 192.168.1.12
Group ID	Group 00 ~ group 63
Request for Switch/Router	Support IGMP, support DHCP
Connectors on Transmitter	
Input	1xHDMI Female port
Output	1x RJ45 output, 1x HDMI looping
	output
RS232	Phoenix RS232 port
IR	IR TX port (Support 38K-56KHz)
IR	IR Ext port (Support 38KHz)
Connectors on Receiver	
Input	1xRJ45 input
Output	1x HDMI Female port looping output
RS232	Phoenix RS232 port
IR	IR RX port (Support 38K-56KHz)
	IR Ext port (Support 38KHz)
Environmental & Power Requireme	ents
Operating temperature	-5 to +35 ℃ (+23 to +95 ℉)
Operating Humidity Range	5 to 90%RH (No Condensation)
Power supply	DC 5V 1A
Power consumption	Max 3 watt
Physical	
Dimension	TX:119x79.5x28mm;RX:

	119x79.5x28mm
Net Weight	TX: 0.28KG; RX:0.28KG

Supported input resolution

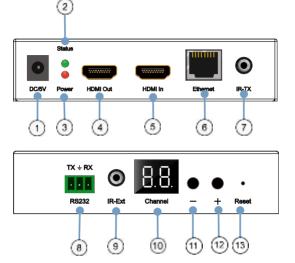
Frequency	Resolution
	576i
	576P
50Hz	720P
	1080P
	1080i
	480i
60Hz/59.94Hz	480P
00H2/59.94H2	720P
	1080P
30Hz/29.97Hz	1080P
24Hz	1080P
25Hz	1080P

VESA Resolution

Frequency	Resolution
	576i
	576P
50Hz	720P
	1080P
	1080i
	480i
	480P
60Hz/59.94Hz	720P
	1080P
30Hz/29.97Hz	1080P
24Hz	1080P
25Hz	1080P

3. Panel description

3.1 TX



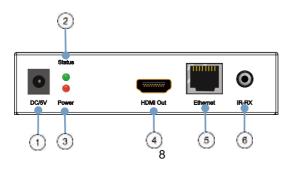
- 1) DC 5V 1A input
- 3) Red indicator of power input 2
- 5) HDMI input
- 7) IR-TX
- 9) IR-Ext

- 2) Green indicator of data status ①
- 4) HDMI output for local display
- 6) CAT5e/6 output
- 8) RS232 port
- 10) LED to show the Group ID
- 11) Press the button for the previous Group ID

12) Press the button for the next Group ID 13) Reset button

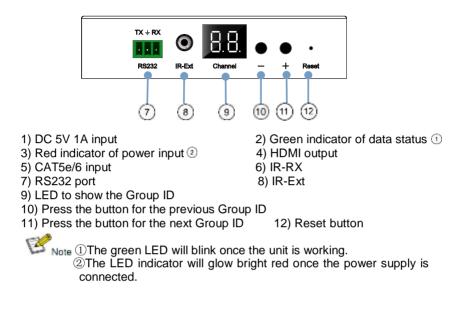
Note ①the green LED will blink once the unit is working.
②The LED indicator will glow bright red once the power supply is connected.

3.2 RX



EXT-AVIPH264RX

KANEXPRO

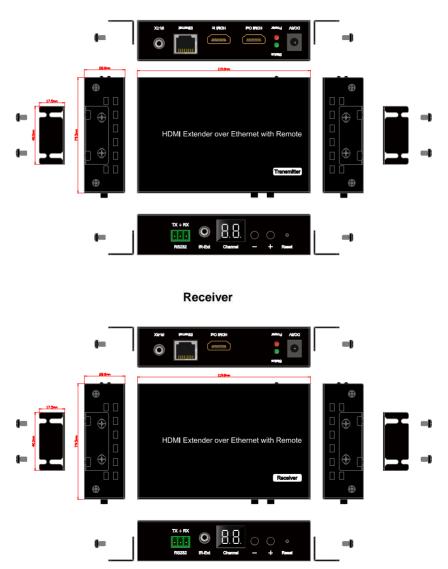


3). How to connect the IR Cable



EXT-AVIPH264RX

3.3 Panel Drawing



Transmitter

4. Installation and Configuration

Setup HDMI TX and RX

When connecting point to point, no need to configure TX and RX, When connecting point to many, many to point and many to many, please make sure every TX and RX has unique IP and MAC address, every TX has unique group ID.

AV over IP Extender has been assigned unique default MAC address for every TX and RX, so you don't have to set the MAC for the units. You just need to set the IP address and Group ID following bellowing steps.

Setting the IP address

A). DHCP (Dynamic host configuration protocol)

If you are using a Switch that supports DHCP, please enable DHCP so that the Switch will assign a unique IP for TX and RX, and you don't need to change the IP for the units manually.

Ethernet							
WUse DHCP							
Defailt IP address: 192	. 18	1	. 11				
Defailt Netrauk: 258	265	255	5 . T				
Default Gatarway: 182	. 190	.1	11				
Submit							
Cart Setting							
Baud Rate 115200 +							
Contraction of the second second							
Submit							
File to Upgrade Encode	- Firm				1 364	Upped	-
the in chilings racons		1				L Magnes	-
-							
R Use DHCP							
Default IP address: 1	92	168	1.1	12			
Default Netmask: 255		255	255	1.8			
Default Gateway: 192		168	. 1	. 1			
Update DHCP							
Multicast Group: Gro	un fitic	336.96	42.43	· Port	5004		
Update	op o i p			Tel Lore	2004		
Contrasto 2							
Uart Band Rate: 1153	100 ·						
Update							
Reboot							
and a state of the							

B). Set the IP via web browser

If you are using a Switch that doesn't support DHCP, please change the default IP for TX (192.168.1.11) and RX (192.168.1.12) manually. A HTTP server is embedded in each TX and RX. You can set up IP address for HDMI Extender via web browser

The default IP address of the **TX is 192.168.1.11, user** name: admin, password: admin

The default IP address of the **RX is 192.168.1.12**

Step 1: Make sure the Transmitter and PC are in the same domain.

Access the Network Setting Control Panel in Windows and locate your Lan connection. Under Windows 7, this can be done by clicking Start > Control Panel >Network Sharing center>Change adapter settings > Properties >Internet Protocol Version4 (TCP/IPv4). Change the IP address fi eld to 192.168.1.1

(0-255). After that press "OK" to save the configuration.

With the PC and TX/RX should be in the same domain. With IP address of PC should be different from the IP address of TX and RX

Step 2: Use an Ethernet Cable to connect the PC (or laptop) and the extender, the power LED for the extender is red and the green status is blinkina.

Step 3: Login in IE: 192.168.1.11 (default IP for TX) or 192.168.1.12(default IP for RX), You can setup IP address for the TX and RX. TX requires user name: admin and password: admin

Please set IP address for each TX and each RX. IP: 192.168.1.XX (XX:1-255. all IP address for TX and RX must be different and can't be same as the PC's address.)

Step 4: After selecting "Use DHCP" or reset the IP Address, click "Submit" (transmitter) or "update DHCP" (Receiver).

Step 5: Click "Reboot".

Use DHCP				-		
Definit IP address: 110				18		
Defailt Netsask: 255	255		56			
Default Goteway: 152	168	1		τ		
Lipdate DHCP						
Mallicart Group: Group	01(239.2)	8.42.4	3) [2	Port	5004	
Lipdate						
and the second distance	inter l'					
Cart Based Rate: 11520	0(#)					
Lipdate						
back to see and						
Reborn						
has a new second second						
Reconcisioner						
Ethernet						
Ethernet II Uw DIRCP	-108	4				
Educant Filles Dillo Defaul IP address: 150	108	4.				
Ethernet						
Etherent EUse DilCP Defait Frederic 10 Defait Neussie 201	265		11			
Ethernet Eller DHCP Detail Paderon: 100 Detail Nonack: Sil Defail Garrage 110 Sutant	265		11			
Ethernet Filler DRCP Detail Peddrus: 10 Detail Senack: 26 Detail Garrige: 10	265		11			
Ethernet EUso DHCP Default Produce: 100 Default General: 100 Salest Cart SetSag:	265		11			
Elkonat Elko DECP Defait Podens 10 Defait Kenadi 36 Defait General 10 Salest Cart Setting:	265		11			
Ethernet ITUs DAICP Deletal Produce: 100 Deletal Connect: 201 Deletal Connect: 100 Deletal Co	265		11			
Ethernet Eller DHCP Detail Paderon: 100 Detail Nonack: Sil Defail Garrage 110 Sutant	265		11			
Ethernet ITUs DAICP Deletal Produce: 100 Deletal Connect: 201 Deletal Connect: 100 Deletal Co	265	845	11		- 36	 L.

Step 6: Restart the extender after resting the IP Address.

Choose the Group ID and Baud Rate by Remote controller

(When the LED shows "00", it's ready to work)

① Press the button, switch to choose the Group ID or Baud rate.

② Factory reset. Press the button for 3 seconds, the LED will flicker then turn to "00", you have successfully finished the factory reset.



Choose Group ID 00-63

Press "+" or "-" to change to the previous or next Group ID.
 Press the No to change Group ID. For example, if you need change to 01, press "0", then press "1".

Choose the Baud Rate

Press the Button, switch to Baud Rate mode, press "+" or "-" to change the Baud Rate.

 $F0 = 2400 \text{ (default)} \\F1 = 4800 \\F2 = 9600 \\F3 = 19200 \\F4 = 28800 \\F5 = 38400 \\F5 = 38400 \\F6 = 57600 \\F7 = 115200$

3). How to choose the source:

For example, when the connection is:

Source (DVD1) - TX (TX1) - Gigabit Switch – RX (RX1) - TV1 Source (DVD2) - TX (TX2) - Gigabit Switch – RX (RX2) - TV2 Source (DVD3) - TX (TX3) - Gigabit Switch – RX (RX3) - TV3

The group ID of transmitters is:

TX1 (01)

TX2 (02)

TX3 (03)

If you need display Source on TV1, then just set Group ID of RX1 same as TX1: 01(see below picture).





TX 1

RX 1

Set the group ID for TX and RX via web browser Step 1: Make sure the Transmitter and PC are in the same domain. (Refer to 5.1.1)

Step 2: Use an Ethernet Cable to connect the PC (or laptop) and the Extender. the power LED for the extender is red and the green status LED is blinking.

Step 3: Power on the TX or RX with 5V 1A power supply.

Step 4: Login in IE: 192.168.1.11 (default IP for TX) or 192.168.1.12(default IP for RX), TX requires user name: admin and password: admin.

Step5: Change the group ID at "Stream setting", "00" means group "00" here which can be chosen from 00 to 63.

Multicast Group: Group 00(239.255.42.42) • Port: 5004

Stream Setting:

Transfer: Multicast Multicast IP: 00(239.255.42.42)
Port: 5004

When you change the group ID on both Web browser and Remote controller, the units will follow the latest one.

%If you change the Group ID on web browser, it can't be shown on the LED.

4.2 Preparing the switch

When doing point to many and many to many, it requires a switch to distribute the sources. We suggest you use the Switch that supports IGMP and DHCP. IGMP feature help to manage the group ID which is related to switch the sources; DHCP allow the switch to assign an IP for TX and RX automatically, please enable DHCP of the switch.

4.3 Connection

[™]Note</sub> × Please don't insert into or pull out HDMI cable when power on. Please connect cable only when power is off.

4.3.1 Point to point

1. Connect the source device and the Transmitter unit with HDMI Cable. 2. Connect the HDMI looping output of the Transmitter to the local HDMI display. 3. Connect another HDMI display and the HDMI Receiver unit with HDMI Cable.

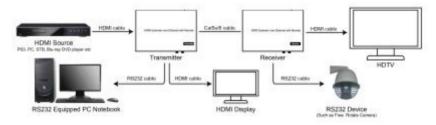
4. Connect the Transmitter and Receiver with Cat5e/6 cable

5. Connect the IR TX cable into "IR TX" port of the transmitter; Connect the IR RX cable into "IR RX" port of the receiver. Then you can control the source at the RX side with IR.

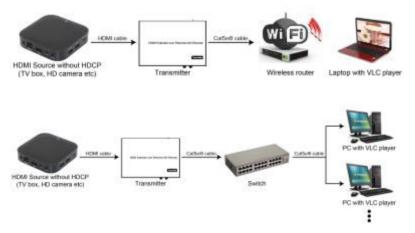
6. Connect one RS-232 Cable from the PC or automation system to the RS-232 port on the Transmitter; Connect one RS-232 cable from the Receiver to the RS-232 device to be controlled.

7. Power on Transmitter and Receiver with adapter 5V 1A.

NOTE: Insert/Extract cables gently.



4.3.2 Compatible with Video Player such as VLC etc



4.3.3 Point to many

1. Setting the IP address for Transmitter & Receiver and preparing the switch following the steps as instructed above (5.1.1&5.2)

2. Connect the source device and the Transmitter unit with HDMI Cable.

3. Connect the HDMI looping output of the Transmitter to the local HDMI Display.

4. Connect the transmitter and the switch/router with cat5e or cat6 cable.

5. Connect all the Receivers and the switch/ router with Cat5e/6 cable.

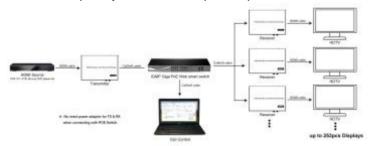
6. Connect the HDMI displays and the HDMI Receiver units with HDMI Cable.

7. Connect the IR TX cable into "IR TX" port of the transmitter; Connect the IR RX cable into "IR RX" port of the receiver. Then you can control the source at the RX side with IR.

8. Connect one RS-232 Cable from the PC or automation system to the RS-232 port on the Transmitter; Connect one RS-232 cable from the Receiver to the RS-232 device to be controlled.

9. Power on Transmitter and Receiver with adapter 5V1A, power on the switch with its adapter.

Note ※Daisy chain the switch if its RJ45 port is not enough. ※The quantity of Receiver is up to 255pcs.



4.3.4 Many to many

1. Setting the IP address for Transmitter & Receiver and preparing the switch following the steps as instructed above (5.1.1&5.2)

2. Connect the source device and the Transmitter unit with HDMI Cable.

3. Connect the HDMI looping output of the Transmitter to the local HDMI Display.

4. Connect the transmitters and the switch/router with cat5e or cat6 cable

5. Connect the Receivers and the switch/ router with Cat5e/6 cable

6. Connect the HDMI displays and the HDMI Receiver units with HDMI Cable.

7. Connect the IR TX cable into "IR TX" port of the transmitter; Connect the IR RX cable into "IR RX" port of the receiver. Then you can control the source at the RX side with IR.

8. Connect one RS-232 Cable from the PC or automation system to the RS-232 port on the Transmitter; Connect one RS-232 cable from the Receiver to the RS-232 device to be controlled.

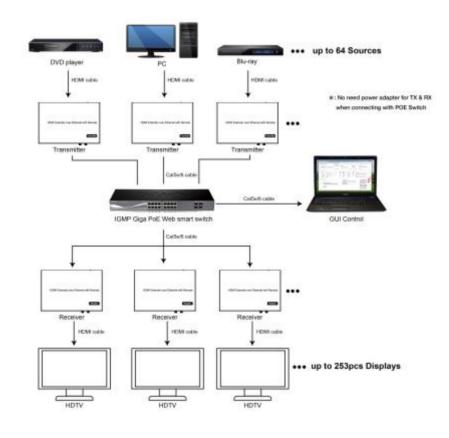
9. Power on Transmitter and Receiver with adapter 5V1A, power on the switch with its adapter.

EXT-AVIPH264RX

10. Choose the source by Remote controller or Web browser as instructed above (5.1.2)



Note ** Daisy chain the switch if its RJ45 port is not enough. *The quantity of Transmitter is no more than 64 pcs. XThe total quantity of Transmitter and Receiver is less than 256 pcs.



Whe withe total qty of TX, RX, Switch is less than 256pcs.

5. RS232 and Baud rate

The unit provides a path to pass through the RS232 signal, RS232 passes

EXT-AVIPH264RX

from TX to RX or from RX to TX, connect to your RS232 devices, such as PC, IP Camera, Creston control panel, Smart Matrix, printer and Scanner and so on. It works when TX, RX and your RS232 devices baud rate is the same. The default baud rate of TX and RX is 2400 which is frequently used for most devices.

5.2 Baud rate setting

5.2.1 Setting the Baud rate via Web Browser

Login TX and RX with their default IP (TX: 192.168.1.11; RX: 192.168.1.12) to modify the Baud Rate which range from default 2400 to 115200.

Uart Setting:

Baud Rate: 115200 *

Note X When you change the Baud rate on both Web browser and Remote controller, the units will follow the latest one.

*Please send the data in the same group ID.

6. Firmware update

We provide the firmware to upgrade the units when it is necessary. Please follow up bellowing steps to update the firmware.

Step1: Connect TX / RX to the PC with a short Cat5e cable

Step2: Power on TX/ RX with power adapter 5V1A.

Step3: Login TX or RX with their default IP (TX: 192.168.1.11; RX:

192.168.1.12) on web browser, TX requires user name: admin and password: admin

Step4: Click "choose File" on the interface and find out the latest version firmware

Step5: Click "Upgrade", the process will takes seconds, please DO NOT interrupt or power off the units during the time.

File to Upgrade Firmware: Choose File No file chosen

Upgrade!

tiny pin to insert

the reset hole and hold about 10 seconds, when the unit is connected.



EXT-AVIPH264RX

7. PC Tool Instructions

Step 1: Make sure the Transmitter and PC are in the same domain. (Refer to 5.1.1)

Step 2: Open the PC Tool.



Step 3: Click "Start Scan".

TV Control Center tool 2.0 - 5	ystem IP(192368163)	100	
Device Scan Page Tx Setup P	age In Setup Page		
Soan Setup			K
Device Scan 5 Time:	Seconds		Start Sea
	_		
Output Vindow			
Tz Bevice, 1 IFTA		Az Device: 0	1

EXT-AVIPH264RX

Step 4: Choose the TX or RX Name.

1972 -	Tx				Berice D	£1.	192, 168, 1, 11
	8-4	6.0	0.0.20160	120	Incoher		7.1.2.0.11.20180627
	Len Status	Link	19	Fider Lede	Unloc	*	NRCP: Off
aramatar Setag							
If Setup		Video Bit			Deventeal	a Setup	
192 188 188 1	- 11	na: 1	5000	15g4	9-61	7-01-10	
Network: 255 . 255 . 255	0.	ML 3	2000	Dpt	80	A sea the	1.50
Gaterary 192 188 1	. 1				10	0	
DHCP: 06		а (3000	Bột		-	
Alac Setup							
Germap ID		1.	ert Daular	at.e		100	Tpinte
0		1 10	2400				
Stream Output Fath			er Address				3shoot
Loopthrough and Seter	rk Outpu 🔹	1 3	0006002000	491			
Device Mate							firmewn Upprale
1141							-

7.1 Firmware Upgrade

Upgrade for TX

Step 1: Click "Firmware Upgrade".

Device Selection	To Device Laf Device Name To Lan Status:	1	275 0.0.0.2019 ink 3p	1627 Video Lock	Derice Encoder Halo		182 388 1 11 7.1.2.0.11 20160627 HDCP: 0.67
ranatar Setup DF Jetup 27: 152 105 1 Retaalk 255 255 255 Gatawy 102 100 1 1002 □0e	0	74D 10	15000 12000 4000	Մերս Մերս Մերս	hall M	ilo Sotay (Pall M NB	•
fine Satup Group ID 0			Vert Baub	ete	8		Rydate .
Stress Output Patk			No: Addres	a -			Belocit
Laspilorengh and Seterci Device Name	Dutpu *		003938296	190			Formerer Tpgrain
1972							Factory Baset

EXT-AVIPH264RX

KANEXPRO

os Som Page To		Providence of the					
x Device Selectio	a.	In Device Info Device Name:	1911	1	Device IF:	192,100.	1.13
IFTE		Τz	4.0.0.0.20160627	()	Encoder	7.1.2.0.	11.20160627
		Las Status:	Link Ny V	ideo Locki	Unlock	KDCP 0	et t
waster Tx Upp	rade					12	1
17 Setu					/		
TE Darrad							
77						ACRO MAD	the second se
D					L ing i	WTsT eb	
D. Setaal					-		
100 m					-	de TarWr Encoder FW	E
Setsadi Gatevaj					-		•
Setaal					-		E
Setand Gateray INCF					-		E
Setand Gateray INCF					-		E
Setnad Gaterag 2007: Biss Se			2400		-		E
Fetnad Gatera INCF Biss Se	Path		19.000		Lipgrade	Encoder PVI	E
Fetnaci Gaterat IHCF Biss Se Orog O Stream Dutput		k Gatys. +	2400 Mar Address conectedation		Lipgrade	Encoder PVI	F
Setural Gateen INCP Bise Se Group Streen Sutput Looptbrung	Fath 6 and Sature	k Ostps +	Was Address		Lipgrade	Drusder FW	about
Fetnaci Gaterat IHCF Biss Se Orog O Stream Dutput		k Datys. •	Was Address		Lipgrade	Drusder FW	F

Step 2: Click "Upgrade Encoder FW" first.

a Javice Selection	To Jevice Info Device Name: IFTI	Devi	ce IF	192, 168, 1, 11
IP1X Tx Upgrade			dae	1 1 8 0 11 00100000
uranatar 1 IP Satup			lippak	TYPW
IF: Notautk			Upgrade 5	scoder PW
Gataway:		Upg	sding	3
DHCP:				
DHCP: Misc Setup	Upgrade Result	22		
			•	Updata
Wise Setup Group ID	i Firmware Upgrade Is Suc		•	Updata Bekoot
Hist Setup Greep ID O Starsan Output Fath	firmware Upgrade Is Suc		•	

EXT-AVIPH264RX

Step 3: After the step 2 is finished, click "Firmware Upgrade" again, then click "Upgrade TX FW".

Device Selection	To Bevice Inf Device Sume	IM	Device IF	192.358.1.11
1911 •	In Las Status	4.0.0.0.20060627 Link Na Video	Enteder Lock: Unlack	7.1.2.0.11.2016062 KBCP: 062
runeter s Tx Upgrade	- Internet	Control Control	partie - Antienen	E
7 Setup			_	
17			Upp	zade Tx PW
Sytnatk:				
Petrala.				
Gatoray:			in live	te Groater PW
Gateway:			and loga	te Greater PW
Catavay:			in loss	te Groader PW
Gatoway				to Groater FW
Gationage DBCP: Name Sorting		2400	in tops	te Double PN
Gatinenge BRCP Nace Setup Group 3 D Storeau Dutput Path		12400 Nac Address		te Drobter Fly
Gaterap: Inc: Group 2	ork Julga. +	district.		Eshiot
Gatinenge BRCP Nace Setup Group 3 D Storeau Dutput Path	erk Outge. •	Noc Address		

Upgrade for RX

Step 1: Click "Firmware Upgrade".

	Device Name:	of* 1792		lavice 32	192.050.1.12
- 181	Sec.	4, 0, 0, 0, 20080	621	Incoder	7, 1, 2, 0, 11, 20160627
IN CONTRACTOR	Lies Status:	Link Up	Video Ledi	n Raleck	NDCE 011
ameter Setup					
7 Solay		Video Bitrate		Doesseale Sets	•
192 166 1	12	FNB 15000	Ibpa	Fall Fall	
Betweek: 255 . 255 . 255	0	10: 12000	Des	"	
Guterray 182 188 1	- 1	57: 4000	Res	x0: [10	
NCP: Co.		4000	naka		<u></u>
Les Sette					
Group II		Fart Bautr	sta		Rpdate
0		2400		+	-
Stress Output Fath		Bur Addres			Rebert
Leopthrough and Netwo	rik Detpo 💌	003930230	193		
Jevice Sute					Firmure Typesdo
1752					

EXT-AVIPH264RX

KANEXPRO

Step 2: Click "Upgrade Rx FW".

ice Scan Pape In Setup Pape In Jevice Selection 1982 +	Ro Device Infe Device Same Re		Device If Encoder Jock Walook	192.168.1.12 7.1.2.0.11.20160827 NDCP: 042
sraester Rx Upgrade				E I
IP Setup				rade Ro PW
Retnask Outeray: DRT Piar Seta Graup 1			in look	te Brooker Fill
Gaterrey: DHCP: Miss: Sets		2400	ing ingen	REBIOINTER FR
Geteney: DBCF Biss Setu Group 1 Stream Ostpet Path	b Outpa +	2400 Fu: Address 005050202003		References Fill
Guterup: DNCP: Wise Seta Group 1	rk Ontyn +	Buc Address		

Rx Upgrade	terms and the	Anna P	12
17952		Upprade R	6FW
harwester		and Degrade free	
IF Sets		Upgrading	-
Betwee Gaterio 192 100	51 4000 Bys	40 HD	
0902°: 004	tool.	E]	
Mar Setup Group II	Firmware Upgrade Is Success!		Iplate
0	•	1000	Reboot.
D Stream Dotput Fath			
0	RE		Fireware Upgrade

7.2 Other settings

Step 1: Change the IP/Netmask/Gateway/DHCP/Uart Baudrate/Group ID/Mac Address/ Device name on the PC tool interface.

Step 2: Click "Update", after "Update" is finished, click "Reboot".

Bevice Sel	legtia	0.		To Device Service Num		IPTX		Jerire II		192, 168, 1, 11
IFTE				Ta		0.0.0.2016	1000	Incoder		7.1.2.0.11.201808
111				Lan Status	- 9	Link ty	Widee Lede	UnLock	8	HIRCE: Off
ranatar Set										
If Setup					Video	Bitrate	10.00	Devoteale	Setup	
19	192	168	- 8	- 11	114	15080	13g4	243	7-01 H	
Netwerk:	258	285	. 295	0.	. HE	12000	Dys	- ser - 1		
Gaterray :	192.	168	- 1	1		4000	Flot	10	10	
067 (0.					4000	1394	eneer Ø		
Lac Setup										а г
Group ID						Text David	rate			Tplate
0						2400				enter of
Streen Or	tests	Tab.				Bac Addre	10			Sebert.
Leept	hrongh	and I	Fatosci	Outpu +		00363228	2063			
Device Me										Firmen Uppro
IPTX										Contractic and Contraction

Berica S	alactia	in .		Ra Device Device Nat	 1982		beier	117	192, 160, 1, 12
LPRAT 10 Mar			•	Re Las Status	1. 8. 0. 8. 2008 Link Vp	10627 Video Lock	Incoder Rale		7. 1. 2. 0. 11. 20160627 KDCP: 044
ræster S	iatup -								
IF Sotap IF: Noteusk: Guterap:	255	255	1 255	0	1: trate 15000 12000	Espa Espa	Posses Fall M	Le Setup Fall Hi 10	•
3067	E De.				- Sec.				
Gross 1					Fert Lod	1.67.			Rodata
recet 1					2400	1914		÷	agosta a
Dress			Fatwork	Datpu +	War Addre			-1	Rebert
Jerice									Firmure Typesde
IFN									

EXT-AVIPH264RX

KANEXPRO

a Device Selection	To Device Int	64				
	Device Mann:	1971		Device IP:	192.166.1.11	
1Pf1 -	Ťe	4.0.0.0.2	0160622	Enceder	7.1.2.0.11.20080622	
	Lan Status:	Link Wp	Video Loci	uhlark (MDCP: Off	
furumeter Setup						
IP Setup		ideo Sitrate		Issued + Satu	,	
IF: 190 198 1	- 11	FN3 15800	Res	Fall Fall		
Fetwask: 255 . 295 . 298	. 0	ND 12000	Bps	HE ITAL	* 5	
Gateway: 192 . 109 . 1	- 1	53: arms		10 10		
18C2 0n		53 4000	li pa	1000		
Mins Setup					-	
Greep ID		Dart B	isadrata.		Update	
0		2900				
Stream Output Path		Res Ad	dress		Robert	
Loopthrough and Nation	ik Datya 🕶	00293	0000093		1	
Device Same					Firmers Typeda	
1973					_	

7.2 Click "Factory Reset" on TX or RX.

a Device S	alecto	•		Ba Device Device Has		792		Device	ir:	182 166 1 12
IPHI		- 2	٠	Re Las Statu		1 D. O. O. 2014 Jack Th		Enceder UnL		7.1.2.0.11.20160622 HDCP: 011
www.eter S	etap -									
IP Setup IP	198	158	1	12		litrate 15800	Rips	Fel1	ile Setup	S
Fetwark:	255	295	. 295	. 0	HB	12000	They	HE-	I SALE I	
Gaturay: DEF	192 0n	. 169	1	1	9	4000	- Bys	10	12	•]
Mine Setu										
Greep I	0					Vert Bead	trata			Npdate .
Stream						Bas Addre				Robert
Device		h end i	Betrock	Outpu •		000933069	CINO .			Firmers Typeda
1910										Pactary Baset

8. After-sales Service and Warranty.

If problems arise when operating the device, please refer to this user manual.

Any transport costs are borne by the users during the warranty.

 Product Limited Warranty: We warrant that products will be free from defects in materials and workmanship for two years, which starts from the first day the product exits warehouse. (Make note of the serial number on the product)

Proof of purchase in the form of a bill of sale or receipted invoice MUST be presented to obtain warranty service.

2) 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.

1) 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
- Any other causes which does not relate to a product defect
- Delivery, installation or labor charges for installation or setup of the product
- 3) Technical Support: Email or call our after-sales department if there are any problems or any unanswered questions. 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 or contact kanexpro.com or call us at 888-975-1368 for further support.

EXT-AVIPH264RX

KANEXPRO

9. How to use VLC

Step1: Make sure the Transmitter and PC are in the same domain. (Refer to 5.1.1)

Step2: Connect the HDMI Source without HDCP with the transmitter and power on the device.

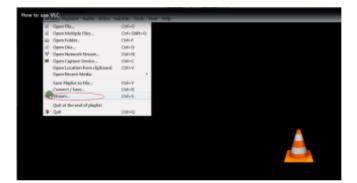
Step3: Connect the transmitter to the PC.

Step4: Check the Multicast Group on the web (refer to 5.1.3).

Step5: Open the VLC media Player, click "Stream"> "Network",

Input "UDP: //@ 239.255.42.42 :5004"

Wote ※239.255.42.42 (Multicast Group) 5004 (Port)



File	Ø Disc	🚏 Network	S Capture Device	
Network 1	Protocol			
Please en	nter a net	work URL:		
udp://02	39. 255. 42.	42:5004		
		ple.org:8080/tes .com/watch?v=gg		

EXT-AVIPH264RX

Step 6: Click "Next".

<pre>rrce Set up media sources to stream This wizard will allow you to stream or convert your media for use locally, on your private network, or on the Internet. You should start by checking that source matches what you want your input to be and then press the "Next" button to continue. Source: udp://239.255.42.42:5004 Type: udp</pre>	tream O	utput	8
your private network, or on the Internet. You should start by checking that source matches what you want your input to be and then press the "Next" button to continue. Source: udp://239.255.42.42:5004		edia sources to stream	
	your pri You shou	ivate network, or on the Internet. uld start by checking that source matches what you want your ing	

Step 7: Choose "RTP / MPEC Transport Stream" or "UDP".

tination Setup	
elect destinations to strea	n to
*	
Add destinations following	the streaming methods you need. Be sure to check
	the streaming methods you need. Be sure to check format is compatible with the method used.
with transcoding that the f	format is compatible with the method used.
	format is compatible with the method used.
with transcoding that the s	Format is compatible with the method used.
with transcoding that the f	File Add
with transcoding that the s	File Add File Add HTTP WS-WNSP (MMSH)
with transcoding that the s	File Add File Add RTIP MS-WMSP (MMSH) RTSP RTP / MFEC Vansport Stream
with transcoding that the s	File HTTP RSSP (MMSH)

EXT-AVIPH264RX

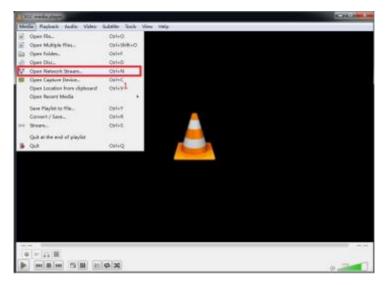
Step 8: Click "Next".

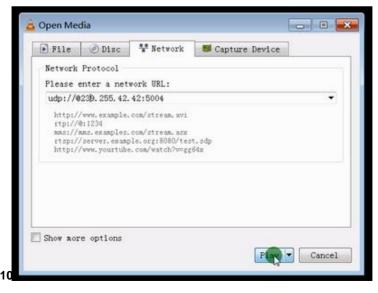
🚊 Stream Output	-2
Transcoding Options Select and choose transcoding	g options
Activate Transcoding	
Profile	Video - H. 264 + MP3 (MP4) 🔹 🐹 🔳
	Back Cancel
	Back Cancel

Step 9: Click "Stream".

A Stream Output	? <mark>×</mark>
Set up any additional options for streaming	
Miscellaneous Options	
Stream all elementary streams	
Generated stream output string	
:sout=#transcode[vcodec=h/ 解基杂世专家 未注册 8, channels=2, samplerate=44100] :sout-keep	
Back Ca	incel

Step 10: Click "Open Network Stream", then you can click "Play" to view the video.





EXT-AVIPH264RX

KanexPro [™] warrants that (a) its products (the "Product") will perform greatly in agreement with the accompanying written materials for a period of 36 months (3 full years) from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years.

B. CUSTOMER REMEDIES

KanexPro's entire liability and Customer's exclusive remedy shall be, at KanexPro option, either return of the price paid for the product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to KanexPro with a copy of customers' receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period of 3 years, whichever is longer.

C. NO OTHER WARRANTIES

To the maximum extent permitted by applicable law, KanexPro disclaims all other warranties, either express or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This limited warranty gives customers specific legal rights. Customers may have other rights depending on the jurisdiction.

D. NO LIABILITY FOR DAMAGES

To the maximum extent permitted by applicable law, in no event shall KanexPro be liable for any damages whatsoever (including without limitation, special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or

31

EXT-AVIPH264RX

any other pecuniary loss) arising out of the use of or inability to use this product, even if KanexPro has been advised of the possibility of such damages.

Kanex Pro

1405 Pioneer Street Brea, CA 92821