

gofanco[®]

PRO-HDRextract

HDMI 2.0a Audio Extractor & Embedder

User's Guide



Congratulations for owning a gofanco product. Our products aim to meet all your connectivity needs wherever you go.

Have fun with our products!

Please read this manual carefully before first use.

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For technical support, please email us at support@gofanco.com.

For drivers/manuals download, please go to <http://www.gofanco.com/download>.

1. Introduction

The PRO-HDRextract **HDMI 2.0a Audio Extractor & Embedder** offers the highest compatibility to HDMI 2.0a in the market. This unique device supports the separation of high quality stereo analog audio and digital S/PDIF(Toslink) audio from the incoming HDMI signal without losing any active audio channels from audio bit-stream and makes HDMI audio more friendly to your audio systems with only stereo sound support, such as TV and stereo speakers. Besides, PRO-HDRextract also can embed external stereo analog audio or digital S/PDIF(Toslink) audio to the outgoing HDMI signal.

PRO-HDRextract is also designed to co-work with any HDMI matrix in the market to make different audio capacity HDMI equipped devices can work with multi-channel HDMI embedded audio at the same time!

2. Features

- HDMI2.0a compliant
- Supports 4K2K@60 4:4:4 8bits
- Supports HDR*, which is 4K2K@60 4:2:0 10bits**
- HDCP 2.2 compliant
- Supports CEC bypass
- Supports audio extraction via stereo & Toslink
- Supports audio embedded via stereo & Toslink
- Supports ARC audio extraction via Toslink

* HDR = High Dynamic Range.

** The video bandwidth of 4K2K@60 4:2:0 10bits (HDR) is 384 MHz, and the 4K2K@60 4:4:4 8bits is 594MHz.

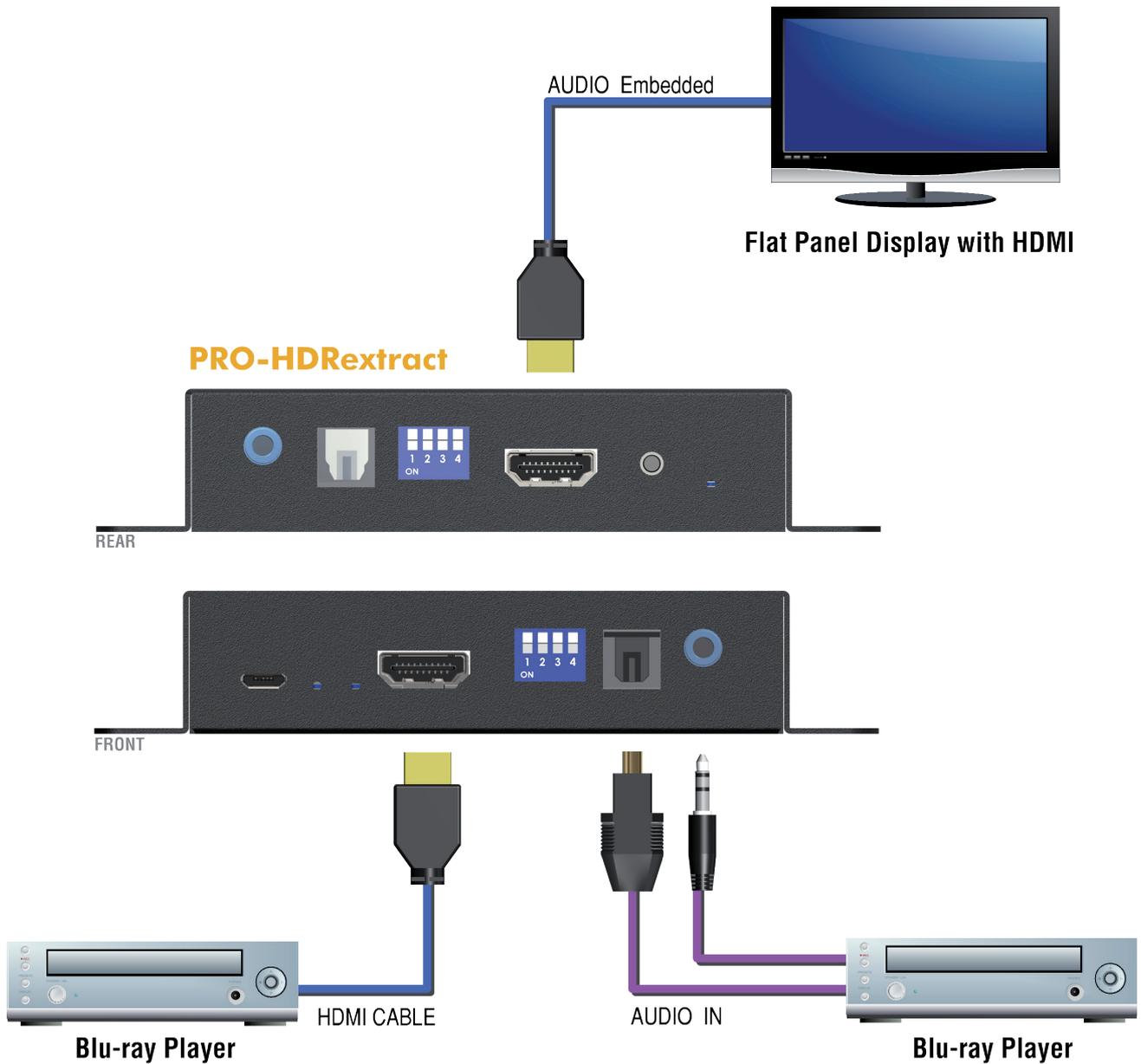
3. Package Contents

- 1x PRO-HDRextract
- 1x 5V/2A power supply unit
- 1x User Manual

4. Specifications

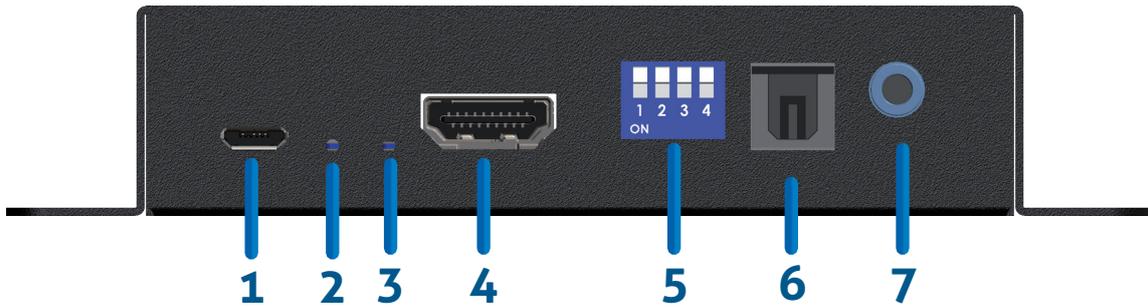
Item	Description	
Role of usage	HDMI 2.0a Audio Extractor & Embedder	
HDMI compliance	HDMI 2.0a	
HDCP compliance	Yes	
Video bandwidth	Single-link 594MHz [18Gbps]	
Video support	HDR 4K2K@60 (4:2:0 10bits) / 4K2K@60 (4:4:4 8bits)	
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]	
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]	
CEC Channel	Bypass	
Input	1x HDMI + 1x 3.5mm phone jack + 1x Toslink	
Output	1x HDMI + 1x 3.5mm phone jack + 1x Toslink	
HDMI connector	Type A [19-pin female]	
3.5mm connector	Stereo	
Optical audio connector	Toslink	
Mechanical		
Housing	Metal enclosure	
Dimensions [L x D x H]	Model	102 x 67 x 24mm [4" x 2.6" x 0.9"]
	Package	198 x 137 x 74mm [7.8" x 5.4" x 2.9"]
	Carton	420 x 400 x 300mm [1'4"x 1'3" x 11.8"]
Weight	Model	220g [7.8 oz]
	Package	470g [1 lbs]
Fixedness	Wall-mounting case with screws	
Power supply	5V 2A DC	
Power consumption	3 Watts [max]	
Operation temperature	0~40°C [32~104°F]	
Storage temperature	-20~60°C [-4~140°F]	
Relative humidity	20~90% RH [no condensation]	

5. Connection Diagram



6. Panel Description

Front Panel

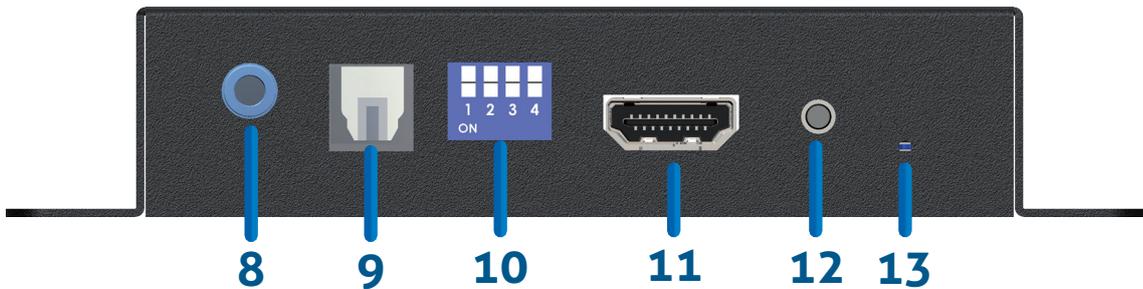


1. DC 5V micro USB power
2. Power LED indicator
3. Signal LED indicator
4. HDMI input
5. MODE 1:

Position		If setting		
PIN#1	PIN#2	OFF[↑]	OFF[↑]	EDID-TV
		OFF[↑]	ON[↓]	EDID-2CH
		ON[↓]	OFF[↑]	EDID-5.1CH
		ON[↓]	ON[↓]	EDID-LEARN
PIN#3	OFF[↑]	Audio Embedder	Disable	
	ON[↓]		Enable	
PIN#4	OFF[↑]		From stereo	
	ON[↓]		From Toslink	

6. S/PDIF input (TOSLINK)
7. Stereo input (3.5mm)

Rear Panel



- 8. Stereo output (3.5mm)
- 9. S/PDIF output (TOSLINK)
- 10. MODE 2:

MODE 2			
Position	OFF[↑]	ON[↓]	
PIN#1	OFF	Audio Extractor	
PIN#2	OFF	ARC	
PIN#3	Reserved		
PIN#4	Normal	FW	

- 11. HDMI output
- 12. Push button: factory reset
- 13. Link LED indicator

** ARC audio extraction is always via Toslink output
 *** Once enable ARC function, the audio extraction will be valid only via stereo(3.5mm)

7. Limited Warranty

The SELLER warrants the **PRO-HDRextract HDMI 2.0a Audio Extractor & Embedder** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the PRO-HDRextract features and specifications is subject to change without further notice.

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