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PRO-SDIHD2

12G/6G/3G/HD-SDI to HDMI 2.0 Converter
with Audio Extractor

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.

If you need more information about our products, please visit
www.gofanco.com.

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-SDIHD2 12G/6G/3G/HD-SDI to HDMI 2.0 Converter with Audio Extractor provides a cost effective way to convert 12G/6G/3G/HD-SDI signal to HDMI 2.0 compliant format. The conversion between SDI and HDMI is pure digital and guarantees no loss transformation for both audio and video. Plus, with up to 8 channels audio support, 7.1 channel or 5.1 channel audio becomes available. The PRO-SDIHD2 also provides one low jitter SDI local loop-out and high quality analog stereo output to provide the flexibility to users. With the use of PRO-SDIHD2, the most popular uncompressed video interface in the consumer world is readily available for professional SDI equipment!

2. Features

- Supported high-definition (HD) formats :
  720p@50,720p@59.94, 720p@60, 1080i@50, 1080i@59.94, 1080i@60, 1080p@23.97, 1080p@24, 1080p@25, 1080p@29.97, 1080p@30, 1080p@50, 1080p@59.94, 1080p@60, 4K2K@23.98, 4K2K@24, 4K2K@25, 4K2K@29.97, 4K2K@30, 4K2K@50, 4K2K@59.94, 4K2K@60,

  Bit Rate: 11.88 Gbps, 11.88/1.001 Gbps, 5.94 Gbps, 5.94/1.001 Gbps, 2.97 Gbps, 2.97/1.001 Gbps, 1.485 Gbps, 1.485/1.001 Gbps, 270 Mbps

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- Auto 12G/6G/3G/HD-SDI detection
- Support HDMI 2.0 & below
- Supports stereo audio output
- One SDI compliant input; one HDMI compliant output & one SDI loopout

!

1. ONLY supports format conversion. Does NOT support scaling or frame rate conversion.
2. ONLY supports two-sample interleave sampling scheme. Does NOT support Square Division method.
3. Does NOT support SD-SDI.
4. Does NOT support 3G-SDI level B.
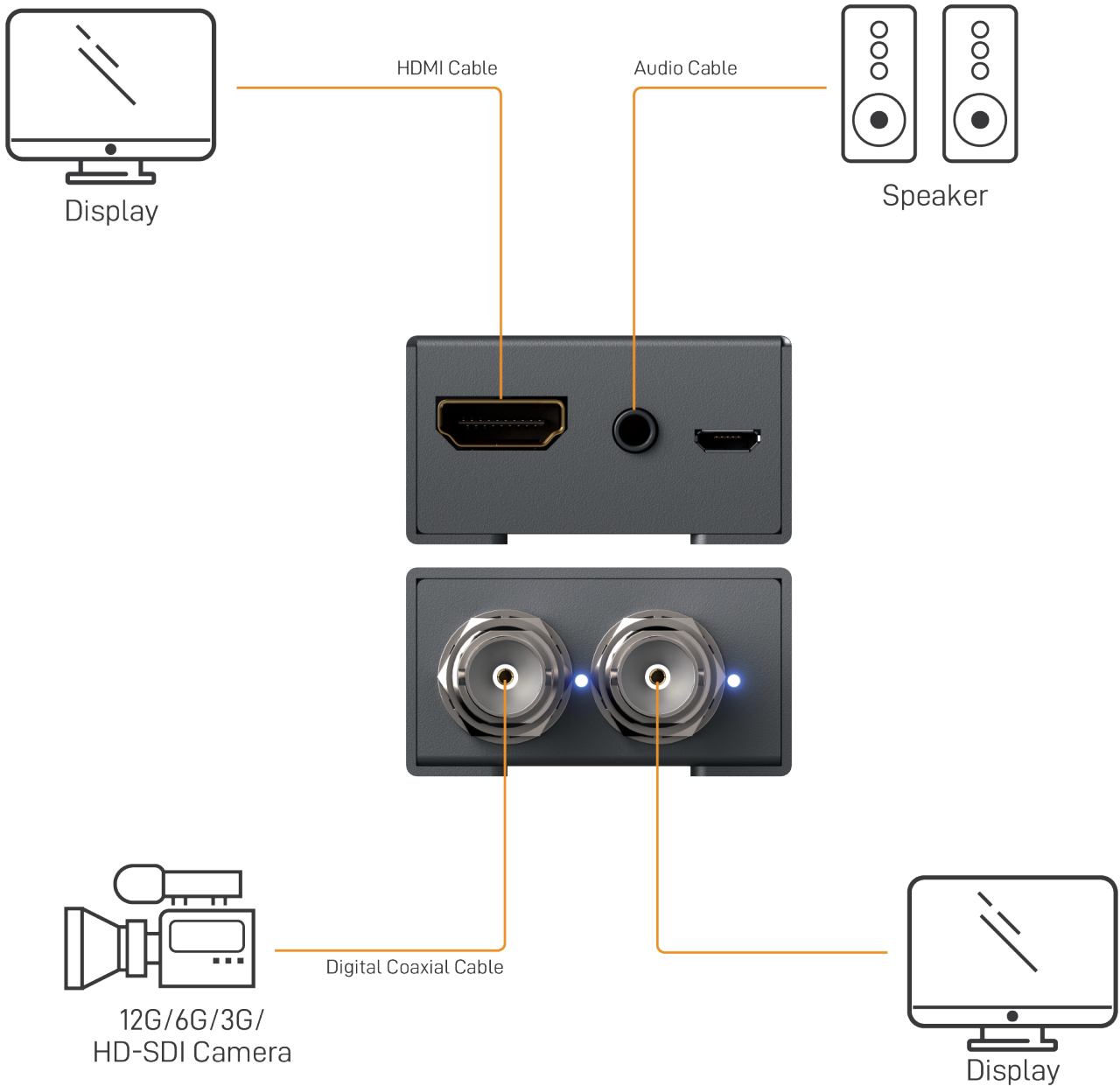
3. Package Contents

- 1x PRO-SDIHD2
- 1x 5V power adapter
- 1x Rack-mounting ears set
- 1x User Manual

4. Specifications

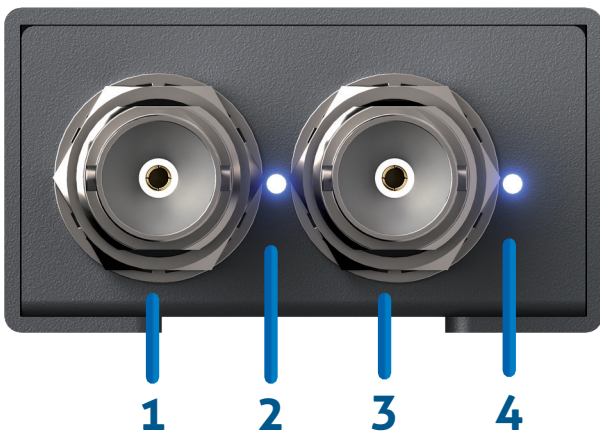| Item	Description
SDI standards	12G/6G/3G/HD-SDI
HDMI standards	HDMI 2.0
Auto 12G/6G/3G/ HD-SDI detection	Yes
Video bandwidth	[SDI][11.88 Gbps, 11.88/1.001 Gbps] [HDMI] [up to 18Gbps]
Video support	[12G] 4K2K @50/59.94/60Hz [6G] 4K2K @23.98/24, 25, 29.97, 30Hz [3G] 1080p50/59.94/60 [HD] – 720p @50/59.94/60Hz,1080i @50/59.94/60Hz, 1080p @23.98/24/25/29.97/30Hz [HDMI] up to 4K2K@60
Input signal	1x SDI
Output signal	1x HDMI + 1x SDI +1x 3.5mm(Audio)
Output impedance(SDI)	75Ω
Synchronization mode	Internal synchronization or external synchronization
Eye pattern characteristics	[12G-SDI] Timing jitter: 0.29 UI, Alignment jitter: 0.13 UI [6G-SDI] Timing jitter: 0.18 UI, Alignment jitter: 0.06 UI [3G-SDI] Timing jitter: 0.09 UI, Alignment jitter: 0.03 UI
Cable equalization	[12G-SDI] up to 80m [6G-SDI] up to 100m [3G-SDI] up to 190m [HD-SDI] up to 300m
Audio	[Analog] Supports 2ch [SDI] Surround sound (up to 8ch)
PCB stack-up	6-layer board [impedance control — differential 100Ω; single 50Ω]
Input	1x BNC [SDI]
Output	1x HDMI + 1x BNC [SDI] + 1 x 3.5mm
BNC connector	75Ω inter-locked socket
HDMI connector	Type A [19-pin female]

Mechanical		
Housing		Metal enclosure
Dimensions [L x D x H]	Model	92 x 84 x 23mm[3.7" x 3.3" 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	175g[6.2 oz]
	Package	390g[13.8 oz]
Power supply		5V DC
Power consumption		4 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

HDMI Cable

Audio Cable

Display

Speaker

Digital Coaxial Cable
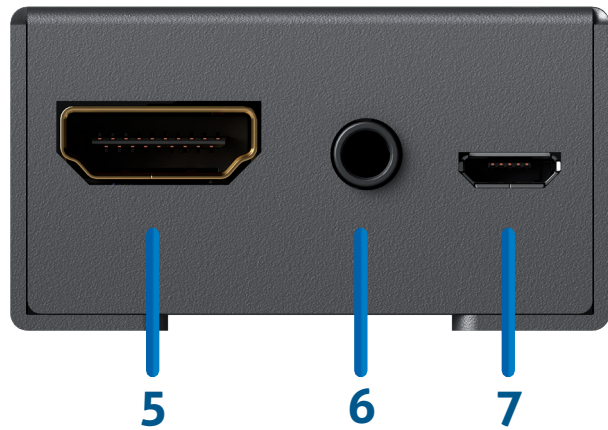
12G/6G/3G/
HD-SDI Camera

Display

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6. Panel Description

Front Panel

Rear Panel

1. SDI IN: 12G/6G/3G/HD/SD-SDI Input

2. Power LED indicator

3. SDI OUT: 12G/6G/3G/HD/SD-SDI loopout

4. Signal LED indicator

5. HDMI OUT: Connect to a HDMI display with a HDMI male-male cable here

6. Stereo Audio Output

7. +5V DC: Connect to a 5V DC power supply

7. Supported Resolutions

12G-SDI Output	
4K2K @50/59.94/60Hz	SMPTE ST-2082
6G-SDI Output	
4K2K @23.98/24, 25, 29.97, 30Hz	SMPTE ST-2081
3G-SDI Output	
1080p @ 50/ 59.94 / 60Hz	SMPTE 424M, SMPTE 425M
HD-SDI Output	
720p @ 50Hz	SMPTE 296M -3
720p @ 60 / 59.94Hz	SMPTE 296M -1, -2
1080i @ 50Hz	SMPTE 274M -6
1080i @ 60 / 59.94Hz	SMPTE 274M -4, -5
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11
1080p @ 25Hz	SMPTE 274M -9
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8

8. Limited Warranty

The SELLER warrants the PRO-SDIHD2 **12G/6G/3G/HD-SDI to HDMI 2.0 Converter with Audio Extractor** 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 surges.

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-SDIHD2 features and specifications is subject to change without further notice**.**

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We reserve the rights to make changes without prior notice to a product or system described herein to improve reliability, function, or design.

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