

gofanco[®]

PRO-CaptureSDI

USB 3.0 3G-SDI Capture Device with Audio in
User's Guide



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1. Introduction

The PRO-CaptureSDI **USB 3.0 3G-SDI Capture Device with Audio in** provides a professional way to capture 3G/HD/SD-SDI signals. It adopts USB 3.0 interface, which can realize high-speed transmission. Users can capture 3G/HD/SD-SDI signals by this capture device. Besides, PRO-CaptureSDI can capture and display original uncompressed 3G/HD/SD-SDI with more realistic color rendition. PRO-CaptureSDI also uses large volume image buffer technology which effectively avoids the video tearing. The high sampling rate and high sampling accuracy assure images with high sharpness, rich details, and less color edges.

2. Features

- SDI video and audio streams over USB 3.0
- Supports UVC1.0
- Supports video resolution up to 1080p 60Hz
- Supports SDI loop through
- Supports stereo line in
- Auto-detection on video format to ensure plug-play operations
- Recording Video Format: H.264 (Software Compression)
- Works on multiple operation system platforms (Windows 7/8.1/10, Mac and Linux OS)
- Compatible with most 3rd party software such as OBS Studio and AMCap

- Supports USB 3.0 (MJPEG/YUY2) and USB 2.0 (MJPEG)
- Low Latency
- System Requirements (Recommended)
 - Windows® 7(SP1) / Windows 8.1 / Windows 10
 - PC: Intel® Core™ i5-4440 3.10GHz + NVIDIA® GeForce® GTX 660 or higher
 - Laptop: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher
 - 4GB RAM or higher

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 1. Video quality is influenced by the system's capability and software settings.
 2. Please use the included USB 3.0 cable to protect the device and avoid compatibility issues.

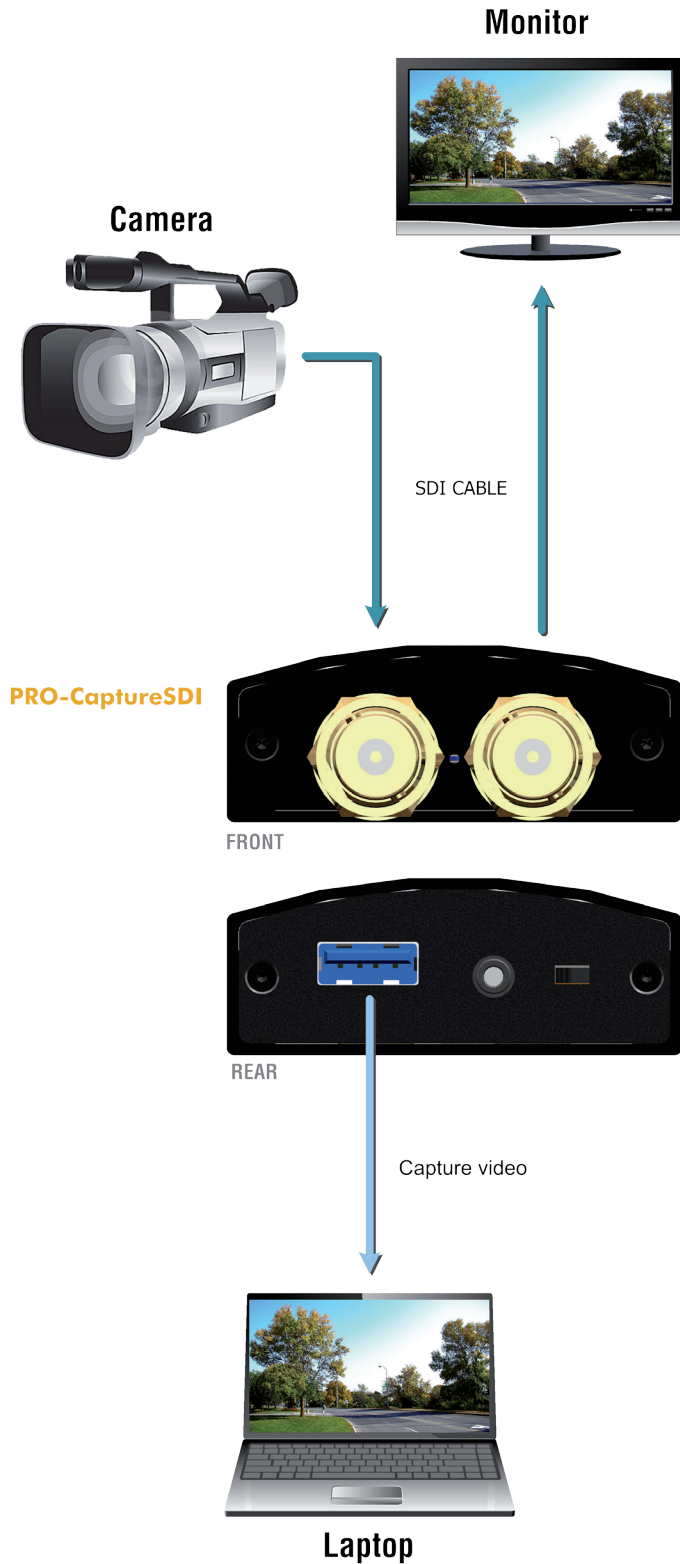
3. Package Contents

- 1x PRO-CaptureSDI
- 1x USB 3.0 A to A Cable (host to device)
- 1x User Manual

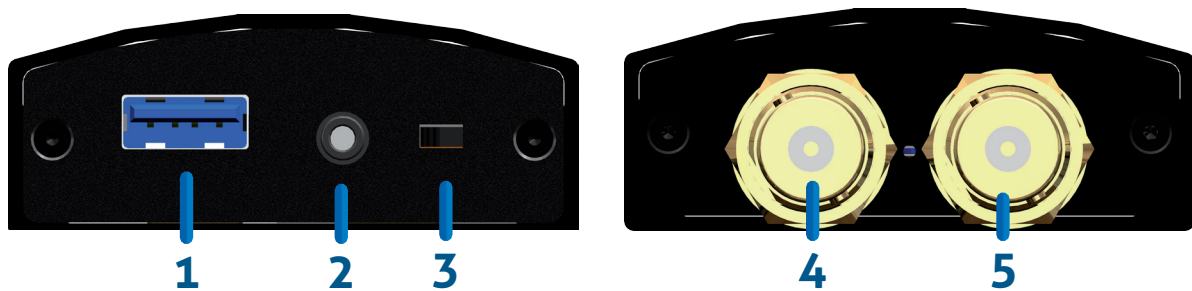
4. Specifications

Item	Description	
Role of usage	Video Capture Device	
SDI standards	SD-SDI, HD-SDI & 3G-SDI	
Input Video bandwidth	2.970 Gbit/s, 2.970/1.001 Gbit/s	
Output Video bandwidth	Up to 350MBps (USB 3.0)	
Video support	Up to 1080p60	
Audio Input	SDI Embedded Audio/ 3.5mm Analog Stereo Audio	
Audio Format	2CH 16bit PCM	
Recording Mode	Software Compression	
Recording Video Format	YUV2 (USB3.0), MJPG (USB2.0/3.0)	
ESD protection	Human body model — $\pm 15\text{kV}$ [air-gap discharge] & $\pm 8\text{kV}$ [contact discharge]	
PCB stack-up	6-layer board [impedance control — differential 100 Ω ; single 50 Ω]	
Firmware update	Feasible via USB port	
Input	1x SDI + 1x 3.5mm stereo	
Output	1x USB + 1xSDI(Loopout)	
BNC connector	3G 75 Ω inter-locked socket	
USB connector	USB 3.0 Type A (SuperSpeed USB)	
Software compatibility (not complete list)	OBS Studio (Windows, Linux), AMCap (Windows), Potplayer (Windows), VLC (OS X, Linux), XSplit Boardcast (Windows), Skype (Windows, OS X), Zoom (Windows), Hangout (Windows), TeamViewer (Windows)	
OS Support	Windows 7 /8.1 /10, Mac and Linux OS	
Mechanical		
Housing	Metal enclosure	
Dimensions [L x D x H]	Model	103 x 58 x 20mm [4" x 2.3" x 0.8"]
	Package	165 x 111 x 42mm [6.4" x 4.4" x 1.7"]
	Carton	490 x 426 x 352mm [1'6" x 1'4" x 13.8"]
Weight	Model	128g [4.5 oz]
	Package	221g [7.8 oz]
Power supply	Via USB	
Power consumption	3.24Watts [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



- 1. USB OUT:** Connect to a USB host (PC, NB, MAC...) and Firmware update
- 2. Line IN:** Connect to analog stereo audio source
- 3. Slide Switch:** Select the audio source from SDI embedded audio or analog stereo audio
[Left] Analog Stereo Audio
[Right] SDI Embedded Audio
- 4. SDI IN:** Connect to a 3G/HD/SD-SDI source
- 5. SDI LOOPOUT:** Connect to a 3G/HD/SD-SDI display

7. USB Pin Definition



	P1		P2
VBUS	1	↔	1
D-	2	↔	2
D+	3	↔	3
GND	4	↔	4
StdA_SSRX-	5	↔	5
StdA_SSRX+	6	↔	6
GND	7	↔	7
StdA_SSTX-	8	↔	8
StdA_SSRX+	9	↔	9
Shield	SHELL	↔	SHELL

8. Limited Warranty

The SELLER warrants the **PRO-CaptureSDI USB 3.0 3G-SDI Capture Device with Audio in** 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-CaptureSDI features and specifications is subject to change without further notice.

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