

EX-G065

Component to HD/SD-SDI Converter

User Manual





Safety and Notice

The **EX-G065 Component to HD/SD-SDI Converter** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, EX-G065 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

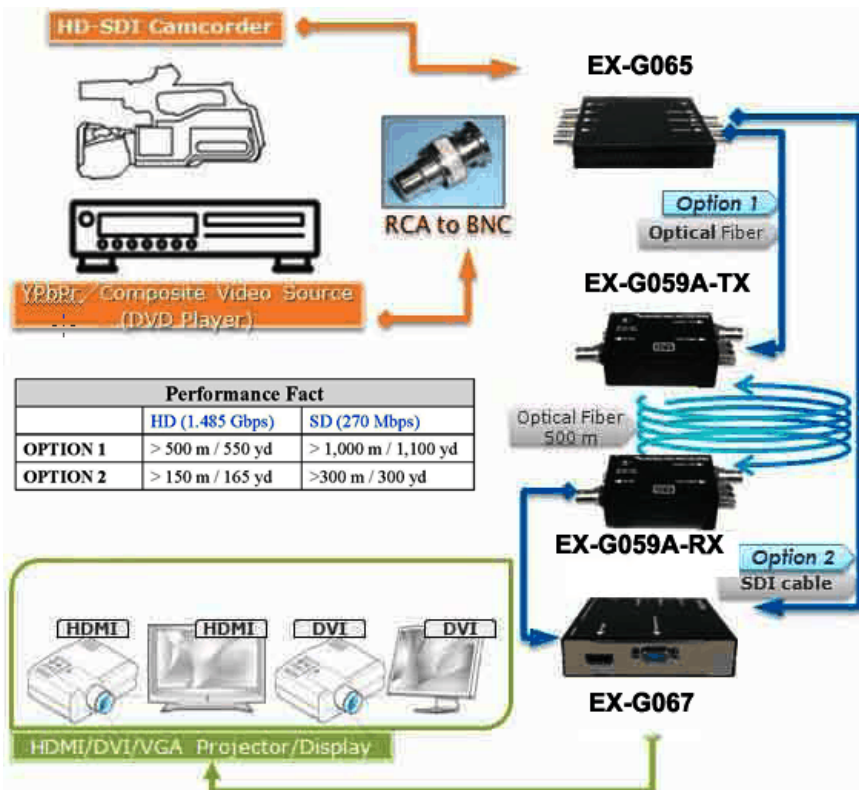
- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

Introduction

The EX-G065 provides high quality 12-bit conversion between analog component and composite inputs and SDI video digital output. The EX-G065 supports both SD-SDI and HD-SDI formats (SMPTE 259M, SMPTE 292M, and SMPTE 296M), and also features 3 SMPTE compliant HD/SD-SDI outputs.

Features

- Supported HD formats: 1080i @50/59.94/60Hz; 1035i @50/59.94/60Hz; 720p@50/59.94/60Hz; 1080p@24/30Hz
- Supported SD formats: NTSC @59.94Hz; PAL @50Hz
- Excellent quality 12-bit A/D conversion
- Three HD/SD-SDI outputs
- Auto HD/SD-SDI detection
- Equipped with two extra equalized loop-outs
- Easy installation
- External DIP switch configuration

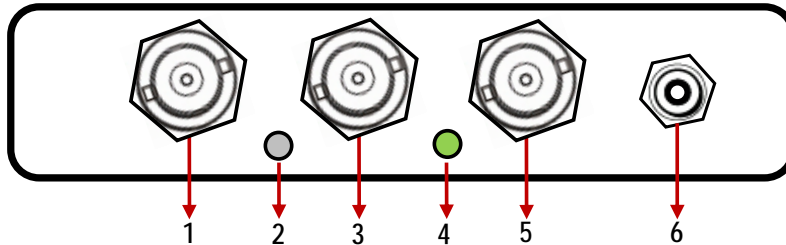


Specifications & Package Contents

Model Name		EX-G065
Technical		
SDI standards	SD-SDI & HD-SDI	
Auto HD/SD-SDI detection	Yes	
Video bandwidth	[1.485Gpbs & 1.485/1.001Gpbs]	
Video support	[HD] 720p50/59.94/60, 1035i50/59.94/60, 1080i50/59.94/60, 1080p24/30 [SD] NTSC@59.94Hz, PAL@50Hz	
Input signal	Component video	
Output signal	[SD-SDI] SMPTE 259M [HD-SDI] SMPTE 292M, 296M	
Output impedance	75Ω	
Analog/digital conversion	12 bits	
Synchronization mode	Internal synchronization or external synchronization	
Cable transmission	[HD-SDI] greater than 125m (410ft) [SD-SDI] up to 300m (1000ft)	
Loop-out	None	
Audio support	No audio	
PCB stack-up	6-layer board [impedance control — differential 100Ω; single 50Ω]	
Input	3x BNC [component Y / Pb / Pr] 1x BNC [external sync.]	
Output	3x BNC [SDI]	
BNC connector	75Ω inter-locked socket	
DIP switch	8-pin – [SW1] Color space mode / [SW2] Sync mode / [SW3&4] Input format	
Mechanical		
Housing	Metal case	
Dimensions (L x W x H)	Model	160 x 110 x 25mm [6.3"x4.3"x1"]
	Package	270 x 175 x 80mm [10.6"x6.9"x3.2"]
	Carton	450 x 370 x 300mm [1'5.7"x1'2.6"x11.8"]
Weight	Model	476g [1.0 lbs]
	Package	994g [2.2 lbs]
Fixedness	Inter-locked power supply	
Power supply	5V 4A DC	
Power consumption	10 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]	
Package Contents	1x EX-G065 1x 5V power adapter 1x User Manual	

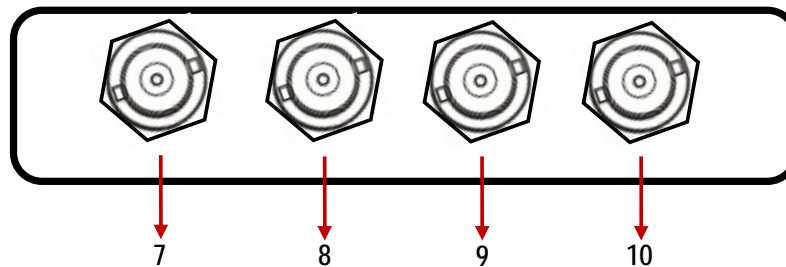
Panel Descriptions

Front Panel



- | | |
|---------------------------------------|------------------------|
| 1. HD/SD-SDI output 1 | 4. Power indicator LED |
| 2. HD/SD LED (HD: Green / SD: Orange) | 5. HD/SD-SDI output 3 |
| 3. HD/SD-SDI output 2 | 6. 5V Power |

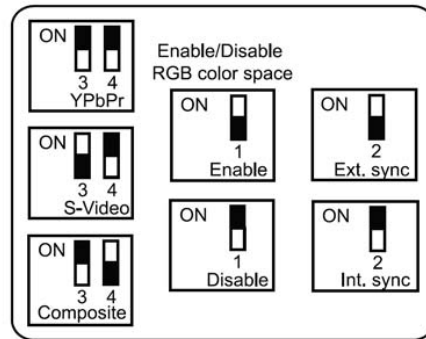
Rear Panel



7. External synchronization
8. Y of component video
9. Pb of component video
10. Pr of component video

Supported Resolutions

HD INPUT		Component	Composite*
720p @60/59.94/50Hz	SMPTE 296M -1, -2, RP-133	<input checked="" type="checkbox"/>	
1035i @60/59.94/50Hz	SMPTE RP-133	<input checked="" type="checkbox"/>	
1080i @60/59.94/50Hz	SMPTE RP27.1, RP-133	<input checked="" type="checkbox"/>	
SD INPUT			
NTSC	SMPTE 259M		<input checked="" type="checkbox"/>
PAL	SMPTE 259M		<input checked="" type="checkbox"/>



DIP Switch

SW1	Color Space Mode
On	YPbPr Color Space (Default)
Off	RGB Color Space

SW2	Sync Mode
On	Internal Sync (Default)
Off	External Sync

SW3	SW4	Input Format
On	On	Component (Default)
On	Off	Composite*
Off	On	S-Video*
Off	Off	Reserved

*Not recommended for this model, for reference only

Limited Warranty

The SELLER warrants the **EX-G065 Component to HD/SD-SDI Converter** 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 EX-G065 features and specifications is subject to change without further notice.