

# EX-G047

## 5x5 VGA/Component/S-Video/Composite Matrix with Audio

### User Manual





## Safety and Notice

The **EX-G047 5x5 VGA/Component/Composite Matrix with Audio** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, EX-G047 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 away the objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter, 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

This EX-G047 receives and amplifies up to 5 VGA inputs, perfectly switches the desired input to the VGA equipped monitor or receiver. This matrix enables the broadcast of multiple computers' audio and video outputs to multiple displays. Any one of the inputs can be broadcasted to any or all of the outputs without introducing noticeable video quality distortion. The matrix supports VGA video bandwidth up to 400MHz and also supports YPbPr component, S-Video, and Composite signals. The re-transmitted video quality is guaranteed and the longest transmission is up to 65 meters (210 feet). Therefore, EX-G047 offers the most convenient and cost effective means for swift switch of high quality PC graphics and HDTV videos with crystal clear audio in the market. With equipped audio matrix, EX-G047 is ready to be as YPbPr matrix with stereo audio and ideally for boardroom, showroom, and exhibition. Through IR remote, RS-232 or front panel push button, the control of EX-G047 becomes versatile and easier.

## Features

- Broadcasts the audio and video outputs from five computers to five monitors and speakers
- Up to 5 Graphics/Video Inputs\*
- Supports video bandwidth up to 400 MHz
- Any one of the inputs can be broadcasted to any or all of the outputs
- Built-in video signal amplifier for up to 65m (210-ft) long transmission
- 3.5mm audio outputs to drive either speakers or earphones
- Multiple control by IR remote, push button, and RS-232 control
- 1U rack mountable



\* *Appropriate adapters are necessary for video inputs, such as component, composite and S-Video.*

## Specifications & Package Contents

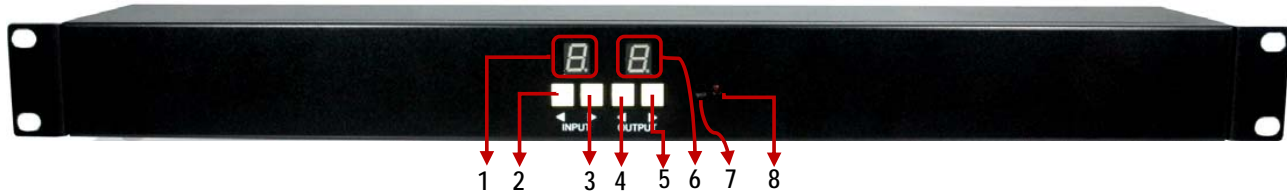
Model Name		EX-G047
<b>Technical</b>		
Role of usage		5x5 true matrix switcher
Supported input/output		VGA / Component / S-video / Composite*
Video bandwidth		400MHz
Video support		1080p60, WUXGA [1920x1200@60] & UXGA [1600x1200@60] or even higher
Transmission		HD [720p/1080i] – 65m [210ft]
Audio support		Analog stereo
Input		5x VGA [component/s-video/composite through adapters] 5x 3.5mm analog stereo audio 1x RS-232
Output		5x VGA [component/s-video/composite through adapters] 5x 3.5mm analog stereo audio
VGA connector		HD-15 [15-pin D-sub female]
RS-232 connector		DE-9 [9-pin D-sub female]
3.5mm connector		Earphone jack for analog stereo audio
Input selection		IR remote / push button / RS-232 control
IR remote control		Electro-optical characteristics: $\tau = 25^\circ$ / Carrier frequency: 38kHz
<b>Mechanical</b>		
Case		Metal housing
Dimensions [L x W x H]	Model	1U – 440 x 96 x 44mm [1'5" x 3.8" x 1.7"]
	Package	490*225*70mm
	Carton	510 x 380 x 252mm
Weight	Model	890g [2.0 lbs]
	Package	2.1kg
Fixedness		1U rack-mount with ears
Power supply		5V 4A DC
Power consumption		13 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]
<b>Package Contents</b>		1x EX-G047 1x IR remote 1x 5V power adapter 1x User Manual 1~10x VGA-to-Component breakout cable [optional accessory]



\* Component and composite input/output can be done by using the optional accessory VGA-to-Component adapter to connect to the VGA socket. However, for S-Video input/output, please find a VGA-to-S-video adapter available in the market to fulfill you need.

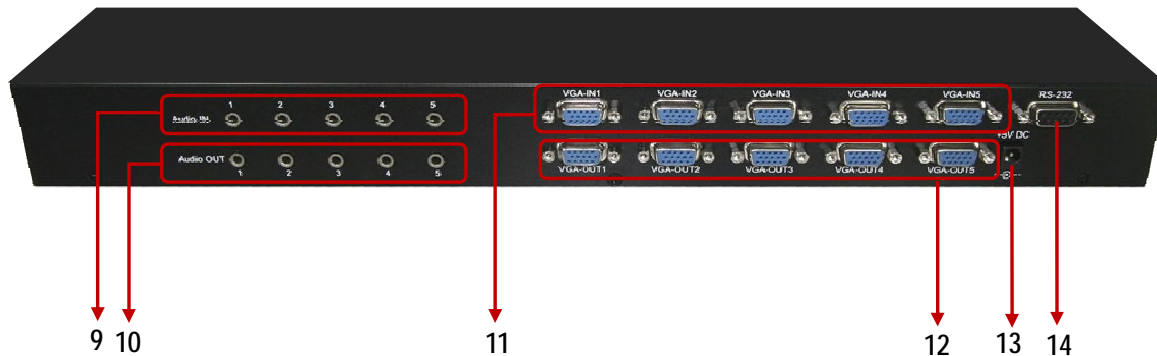
## Panel Descriptions

### Front Panel



- |                                |                                 |
|--------------------------------|---------------------------------|
| 1. Indicator of input channels | 5. Decrease of output channels  |
| 2. Increase of input channels  | 6. Indicator of output channels |
| 3. Decrease of input channels  | 7. IR Receiver                  |
| 4. Increase of output channels | 8. Power indicator              |

### Rear Panel



- |                   |                         |
|-------------------|-------------------------|
| 9. Audio inputs   | 12. Video outputs       |
| 10. Audio outputs | 13. 5V DC Power         |
| 11. Video inputs  | 14. RS-232 control port |

## RS-232 Serial Port Control



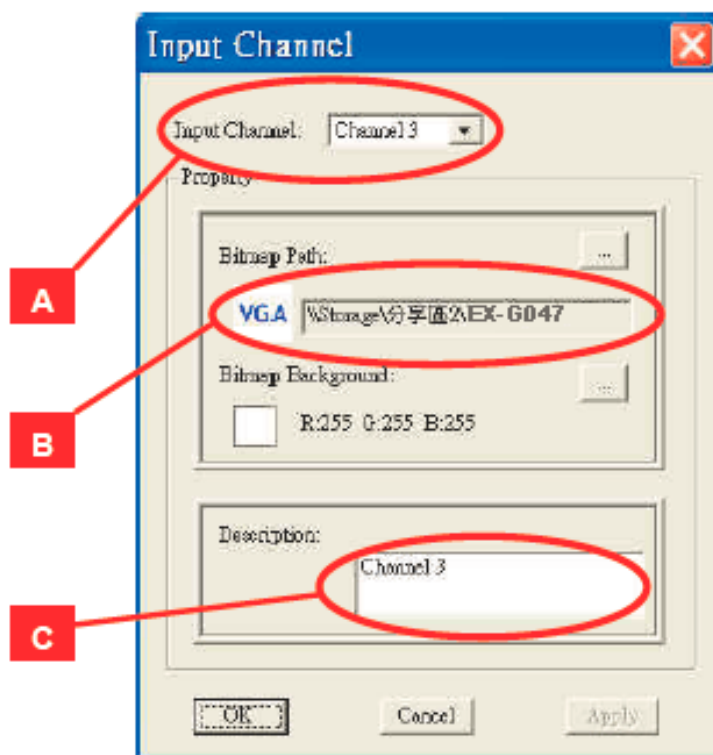
- 1** Scan: Push this button will trigger the automatic search over all the available COM ports (1-255). If the matrix is detected, the message window below will show up.



Otherwise, an error message as following shows up to indicate there is no legal device found. Notice that successful connection is only established if there exists at least one available COM port.

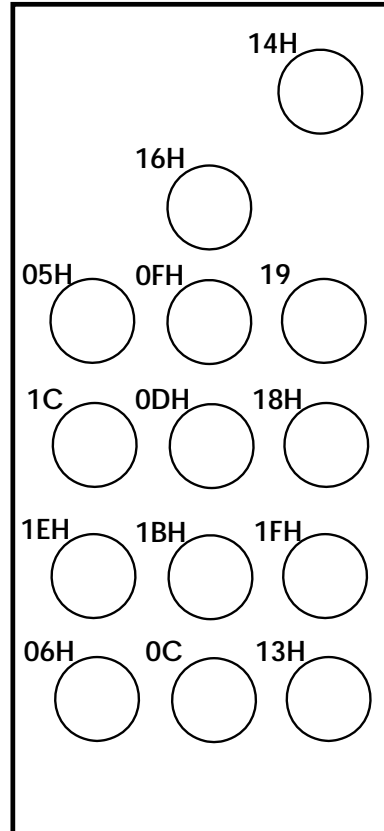
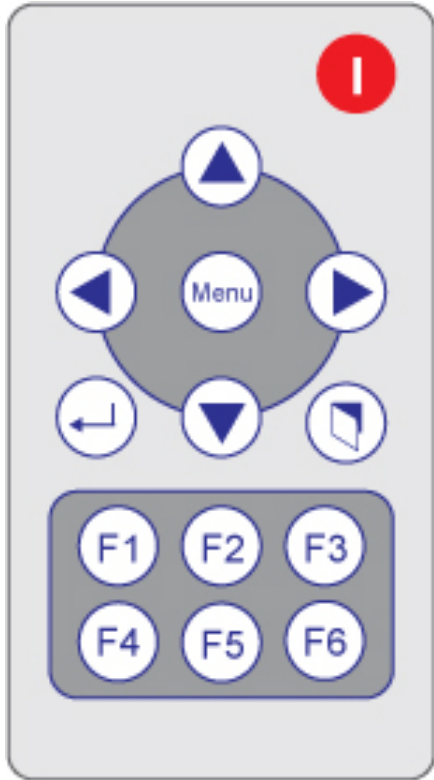


- 2** Open: Open the COM port after scan to establish the connection between PC and the matrix.
- 3** Close: Release the COM port after scan.
- 4** Quick Setup Buttons: Provide the fast setup between inputs and outputs of the matrix. "Default" button makes input 1, 2, 3, 4, 5 mapped to output 1, 2, 3, 4, and 5 respectively. "Channel 1" makes all outputs see input1. The same applies to the rest of the buttons.
- 5** Output Channel Setup: Click on this button, a quick selection table of inputs will show up. Users can therefore easily select the input video for each output.
- 6** Input Channel Setup: The button will bring up the setup window for the inputs as below.



- A** Input Channel: Select the input channel to do bitmap and label change.
- B** Bitmap Path: Select the figure for each channel. Notice that only pictures in BMP format are supported.
- C** Description: Channel description.

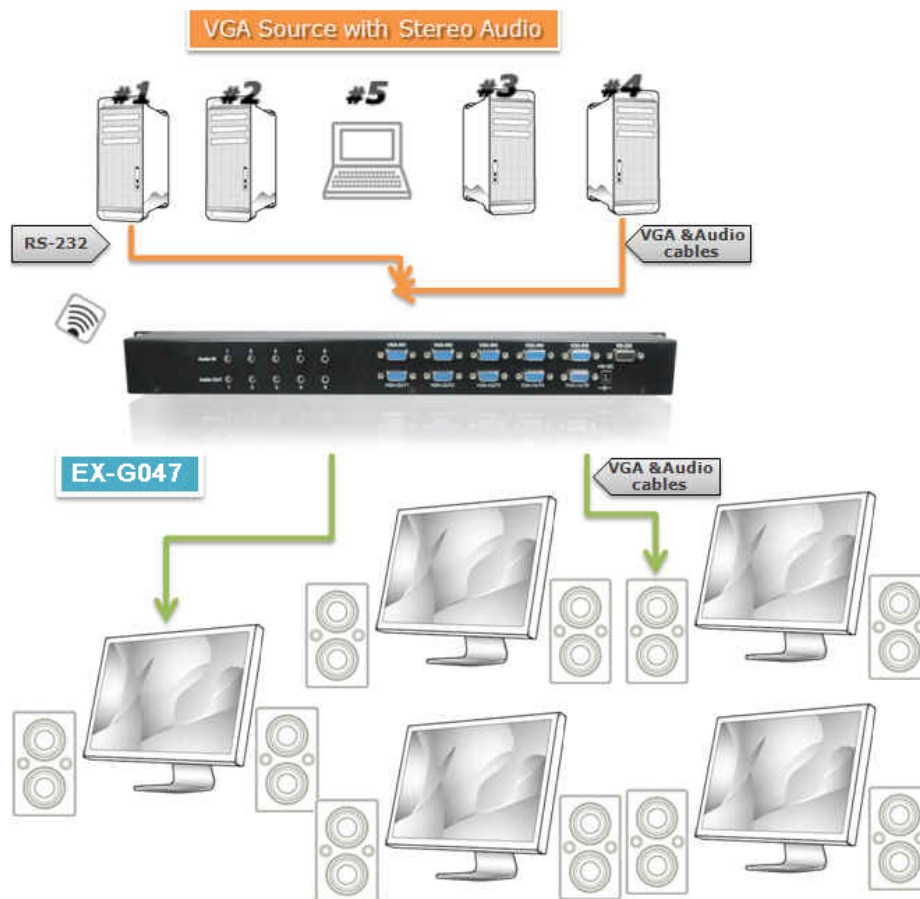
## Remote Control



- |               |                       |                       |
|---------------|-----------------------|-----------------------|
| : Reserved    | : Decrease CH         | : All Outputs see CH3 |
| : Increase CH | : Change Input CH     | : All Outputs see CH4 |
| : Reserved    | : Change Output CH    | : All Outputs see CH5 |
| : Decrease CH | : All Outputs see CH1 | : CHx sees CHx        |
| : Increase CH | : All Outputs see CH2 |                       |

## Hardware Installation

1. Connect VGA enable equipments to the output of EX-G047.
2. Connect the VGA input sources to the inputs of EX-G047.
3. Plug power adapter cable into 5V DC power jack.
4. Use IR Remote, RS-232 serial commands, or front panel push button to switch between inputs.



## Limited Warranty

The SELLER warrants the **EX-G047 5x5 VGA/Component/Composite Matrix with Audio** 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-G047 features and specifications is subject to change without further notice.