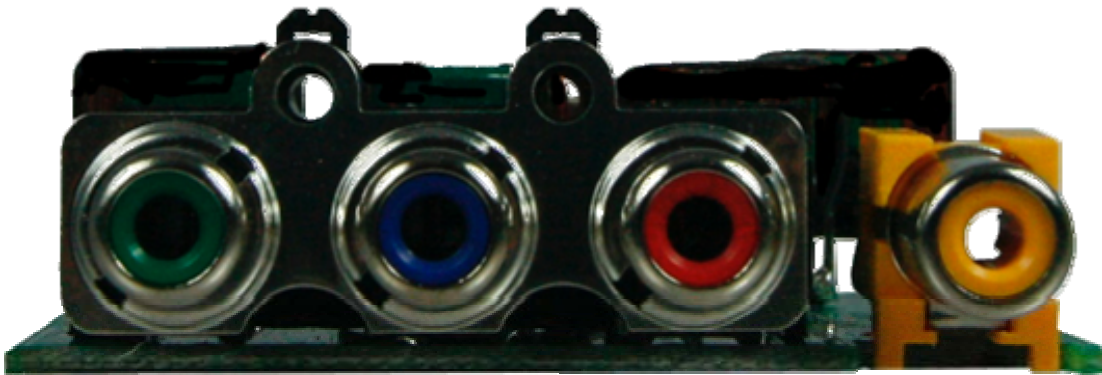


Wall Plate Series

**EX-G030**

Component/Composite over CAT5  
Wall Plate Extender

**User Manual**





## Safety and Notice

The **EX-G030 Component/Composite over CAT5 Wall Plate Extender** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the EX-G030 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-G030 Component/Composite over CAT5 Wall Plate Extender** can easily extend component video with digital S/PDIF or analog mono audio over only one CAT-5e cable. EX-G030 lets you extend signals to cover the distance up to 330m (1,000ft). The devices are composed of a transmitter and a receiver. The transmitter is installed near the video signal source, and the receiver is placed near the desired display, up to impressive 330m (1,000ft) away for composite (CVBS) audio/video, or 150m (500ft) for component (YPbPr) video under 1080i/720p with digital audio. For composite case, you can send your video with analog stereo audio signal, and for component case, digital audio in S/PDIF format or mono analog can be sent through a cost-effective CAT-5e cable. Furthermore, there is no power needed!

## Features

- Passive and no power required.
- Supports composite [CVBS] audio/video, and component video with digital S/PDIF or analog mono audio
- Supports resolutions in 480i/480p/720p/1080i
- Wall mountable
- Transmission range up to 1,000 feet
- Resolution up to 1080p
- Easy installation



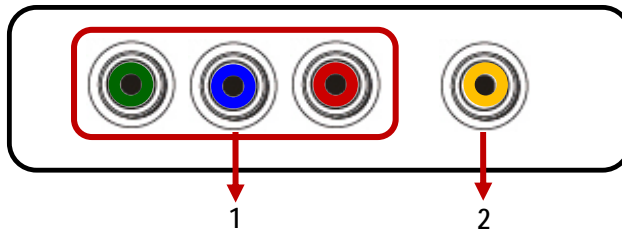
***The length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low skew cables (<25ns/100m) for best performance. Unshielded CAT6 with metal RJ-45 connectors is recommended.***

## Specifications & Package Contents

Model Name		EX-G030	
<b>Technical</b>		EX-G030-TX	EX-G030-RX
Role of usage		Transmitter [TX]	Receiver [RX]
Video support		Up to 720p@60Hz, 1080i@60Hz, 1080p@30Hz	
Transmission length		720p@60Hz – 185m (600ft) [CAT5e] 480i – 330m (1,000ft) [CAT5e]	
Audio support		[Component] – S/PDIF or mono audio [Composite] – stereo audio	
Input		4x RCA	1x RJ-45
Output		1x RJ-45	4x RCA
RCA connector		75Ω female	
RJ-45 connector		WE/SS 8P8C with 2 LED indicators	
<b>Mechanical</b>			
Housing		Metal case	
Dimensions [L x W x H]	Model		
	Package		
	Carton		
Weight	Model		
	Package		
Fixedness		Wall-plate mounting case	
Power supply		None	
Power consumption		0.1 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-G030 [TX & RX] 1x User Manual	

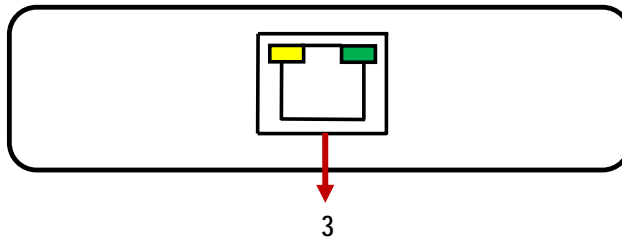
## Panel Descriptions

### Front Panel — Transmitting unit [EX-G030-TX]



1. **Component IN:** Component video input or composite audio/video from an A/V source; or three composite video inputs
2. **S/PDIF IN:** Digital S/PDIF or analog mono audio input for component A/V; or another composite video input

### Rear Panel — Transmitting unit [EX-G030-TX]

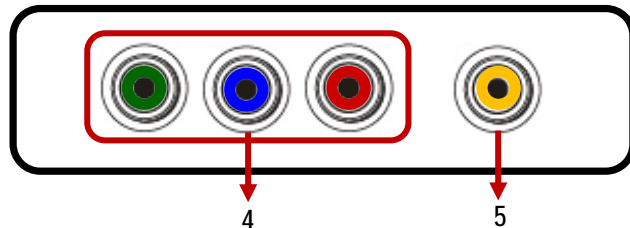


3. **RJ-45 OUT:** Plug in a CAT-5/5e/6 cable that needs to be linked to the RJ-45 connector of the receiving unit EX-G030-RX.



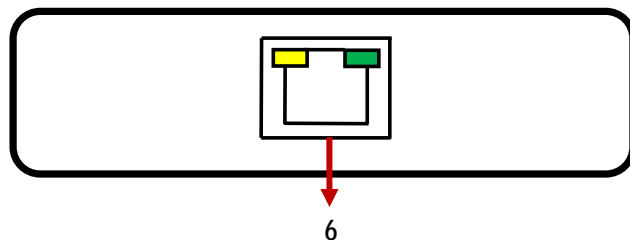
*The LED of the RJ-45 connector will NOT light up while transmitting audio/video signals.*

## Front Panel — Receiving unit [EX-G030-RX]



4. **Component OUT:** Component output to a monitor with YPbPr sockets; or one composite A/V output, or three composite video outputs
5. **S/PDIF OUT:** Digital S/PDIF or analog mono audio output; or another composite video output

## Rear Panel — Receiving unit [EX-G030-RX]



6. **RJ-45 IN:** Plug in a CAT-5/5e/6 cable that needs to be linked to the RJ-45 connector of the sending unit EX-G030-TX.



*S/PDIF socket on TX & RX can be treated as another video input/output or mono analog audio input/output depended upon application scenario.*



*The LED of the RJ-45 connector will NOT light up while transmitting audio/video signals.*

## Hardware Installation

1. Switch off all devices, including monitors.
2. Connect EX-G030-TX to video and audio sources.
3. Connect EX-G030-RX to component monitor and S/PDIF receiver.
4. Power on the monitor.
5. Power on the audio/video source.

## Notice

1. All component/composite over CAT5 transmission distances are measured using Belden 1583A CAT5e 125MHz LAN cable and ASTRODESIGN Video Signal Generator VG-859C.
2. The transmission length is largely affected by the type of LAN cables. The testing result shows solid LAN cables (usually in bulk cable 300m or 1000ft form) can transmit a lot longer signals than stranded LAN cables (usually in patch cord form). Shielded STP cables are better suit than unshielded UTP cables. A solid UTP CAT5e cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid LAN cables are your only choice.
3. EIA/TIA-568-B termination (T568B) for LAN cables is recommended for better performance.
4. To reduce the interference among the unshielded twisted pairs of wires in LAN cable, you can use shielded LAN cables to improve EMI problems, which is worsen in long transmission.
5. Because the quality of the LAN cables has the major effects in how long transmission distance will be made and how good is the received display, the actual transmission length is subject to your LAN cables. For resolution greater than 1080i or 1280x1024, a CAT6 cable is recommended.



### Performance Guide for Component/Composite over LAN Cable Transmission

Performance rating		Type of LAN cable		
Wiring	Shielding	CAT5	CAT5e	CAT6
Solid	Unshielded (UTP)	★★★	★★★★	★★★★★
	Shielded (STP)	★★★	★★★	★★★★★
Stranded	Unshielded (UTP)	★	★★	★★
	Shielded (STP)	★	★	★★
<b>Termination</b>		Please use <b>EIA/TIA-568-B</b> termination ( <b>T568B</b> ) at any time		

## Limited Warranty

The SELLER warrants the **EX-G030 Component/Composite over CAT5 Wall Plate Extender** 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-G030 features and specifications is subject to change without further notice.

