

# EX-G026B

## DVI over CAT5 Mini-Extender with EDID Learning

### User Manual



## Safety and Notice

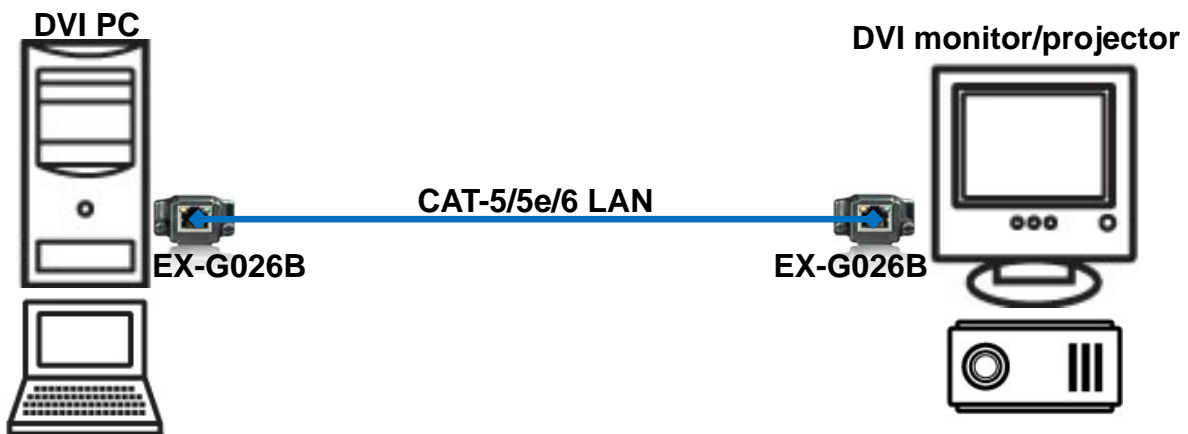
The **EX-G026B DVI over CAT5 Mini-Extender with EDID Learning** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the EX-G026B should be used with care. Please read and follow the safety instructions 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-G026B DVI over CAT5 Mini-Extender with EDID Learning** extends your PC DVI transmission distance up to 30m (100ft) with resolution 1024x768 @60Hz. With EX-G026B, users can transmit high quality digital video of PC applications through one cost effective CAT-5/5e LAN cable to the remote monitor or projector, instead of using short and expensive DVI cables. With embedded EDID inside the extender, your PC will continue to send the digital video even when the monitor is not connected. The user can then disconnects the monitor, place it in a remote location and reconnect it without rebooting the operating system.

The EX-G026B also equips automatic EDID learning feature. While plugged to a monitor with different EDID than the stored one, EX-G026B will automatically update the content of EDID to assure the highest compatibility between PC and monitor. EX-G026B includes two identical units: transmitting and receiving units. The transmitting unit is connected to your PC DVI output and the receiving unit is connected to the monitor or projector. While successfully connected, the two LED lights on each RJ-45 connector will blink. The transmission distance between the transmitting and receiving units can be up to 30m (100ft) under XGA (1024x768@60Hz) or 15m (50ft) under UXGA (1600x1200@60Hz). With compact size and requiring no power, EX-G026B is the most cost effective choice for bringing your impressive digital video to the remote display.



## Features

- DVI 1.1 compliant
- Handy DVI-D to RJ-45 adapters with automatic EDID learning feature
- Extend the transmission distance from the sources up to 30m (100ft) under XGA (1024x768@60Hz) or 15m (50ft) under UXGA (1600x1200@60Hz)
- Identical units work at both transmitting and receiving end. Easy to install.
- No power required
- Compact size

## Package Content

- 2x EX-G026B (for both TX: transmitting unit and RX: receiving unit)
- 1x User Manual

## Technical Specifications

- Video Bandwidth: 4.95 Gbps (DVI 1.1)
- Input TMDS signal: 1.2 volts (peak-to-peak)
- Input DDC signal: 5 volts (peak-to-peak)
- DVI-D Connector (digital only)
- RJ-45 Connector: 2 indication LEDs
- Dimensions: 50mm x 40mm x 20mm (2"x1.6"x0.8") (L x W x H)
- Weight: 90g (3.2oz)

## Hardware Installation

1. Connect your transmitting unit to your monitor and wait for seconds to allow EX-G026B learning EDID.
2. Connect your transmitting unit to your PC source.
3. Connect your receiving unit to your remote DVI equipped monitor.
4. Make sure your CAT-5/5e/6 LAN cable is tightly connected and not loose.
5. Enjoy your high quality PC video on the screen.

## Notice

1. All transmission distances are measured using Belden CAT-5e 125MHz LAN cable and ASTRODESIGN Video Signal Generator VG-859C.
2. The transmission length is largely affected by the type of LAN cables, the type of A/V sources, and the type of A/V display. The testing result shows solid LAN cables (usually in 300m/1000ft form) can transmit a lot longer signals than stranded LAN cables (patch cord). 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 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 CAT-6 cable is recommended.
6. While the connected DVI equipped monitor supports multiple inputs, such as VGA and YPbPr, please switch input to DVI before plugging EX-G026B.

## Limited Warranty

The SELLER warrants the **EX-G026B DVI over CAT5 Mini-Extender with EDID Learning** 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-G026B features and specifications is subject to change without further notice.