

# Owner's Manual

## VGA Over Cat5 Extender Kits with EDID Copy – 2 Local, 2 Remote

Models: B130-202 and B130-202A

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## Product Features

- Connect up to four monitors; 2 local and 2 remote
- Extends a 1440 x 900 @ 60Hz signal up to 165 ft. (50 m) from the source
- Extends a 1024 x 768 @ 60Hz signal up to 500 ft. (150 m) from the source
- B130-202A transmits both VGA video and mono audio
- EDID copy feature ensures optimal display compatibility
- Built-in Equalization control allows for adjustment of the video image
- All operating systems supported
- Plug and play, no software or drivers required
- HDCP compliant

## Package Includes

- B130-202 or B130-202A Transmitter Unit
- B130-202 or B130-202A Receiver Unit
- (x2) External Power Supplies (Input: 100-240V, 50/60Hz, 0.5A Output: 5V, 2A)
- Screwdriver for Equalization adjustment
- Owner's Manual

## Optional Accessories

- N022-01K-GY Gray Cat5e Bulk Cable, 24AWG, Solid Wire – 1,000 ft.
- N202-Series Cat6 Snagless Patch Cable, 24AWG, Solid Wire
- N222-01K-GY Gray Cat6 Bulk Cable, 24AWG, Solid Wire – 1,000 ft.
- P312-Series 3.5 mm Audio Cables
- P502-Series High Resolution VGA Monitor Cables with RGB Coax
- P504-Series High Resolution VGA Video + 3.5 mm Audio Cables with RGB Coax
- P524-01K Zero-Skew UTP Bulk Cable – 1,000 ft.

## EDID Copy

Compatibility issues can occur when EDID information is not properly communicated between the source and the display. The B130-202 and B130-202A include an EDID copy feature which stores a monitor's EDID information in the transmitter and sends it to the source, ensuring optimal compatibility.

The transmitter can only store EDID information copied from a single monitor. You should copy the EDID information of the monitor that has the lowest maximum supported resolution of all monitors being connected. This monitor must also support video resolutions that are supported by the other monitors.

For example, if you plan to use three monitors that support the resolutions listed below, you should copy the EDID information from Monitor A because the highest resolution it supports is 1600 x 1200, which is lower than the highest supported resolutions of the other two monitors. Also, Monitor A's supported resolutions are also supported by Monitors B and C.

- A. 1600 x 1200, 1024 x 768, 800 x 600
- B. 1920 x 1080, 1680 x 1050, 1600 x 1200, 1024 x 768, 800 x 600
- C. 1920 x 1080, 1680 x 1050, 1600 x 1200, 1280 x 768, 1152 x 768, 1024 x 768, 800 x 600

If you are not using the EDID copy feature, the transmitter will use a default set of EDID information.

To use the EDID copy feature, follow the instructions below:

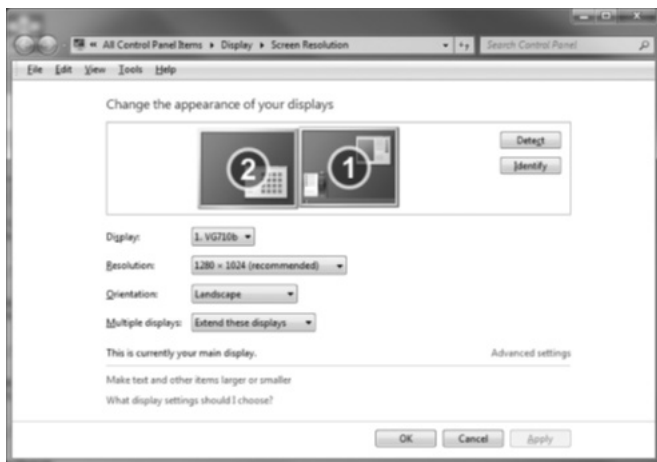
1. Determine the monitor to perform the EDID copy feature on per the example in the EDID Copy section above.
2. Connect the powered-on monitor to the input port of the transmitter unit.
3. Connect the external power supply to the transmitter unit and plug it into a Tripp Lite Surge Protector, Power Distribution Unit (PDU) or Uninterruptible Power Supply (UPS).

## EDID Copy

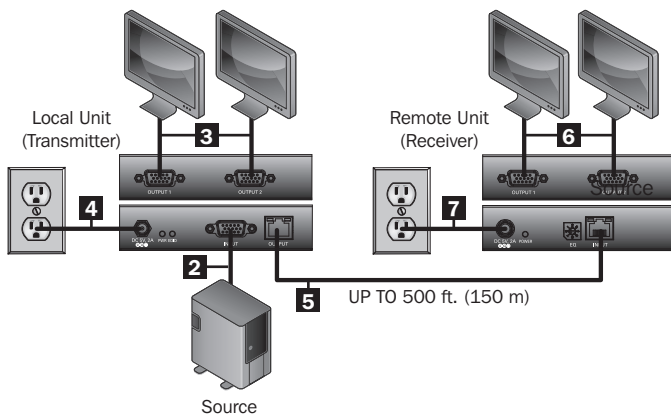
4. The Red Power LED will illuminate to indicate that the transmitter is receiving power. The Orange EDID LED will initially be off. When it illuminates, the EDID information from the connected monitor has been copied.

**Note:** The Orange EDID LED blinks when an EDID scan is taking place, and stops blinking and illuminates when the scan is complete. When a monitor is connected, its EDID information will be copied and stored on the transmitter unit. If no monitor is connected, the scan will still take place and the orange LED will blink/illuminate, but no EDID information will be copied. The information stored on the transmitter will remain unchanged.

5. Once you have completed your installation (see the following section for installation instructions), you can verify that the EDID information was copied via the Display Settings screen on your computer. If the model name of the monitor that you copied is shown in the Display field of the screen, the EDID information has been copied successfully.



# Installation Instructions



## Notes:

- If using the EDID copy feature, perform the procedure from the EDID Copy section of this manual prior to installation. If you are not using the EDID copy feature, the transmitter will use a default set of EDID information.
- The diagram above shows a B130-202 installation. The B130-202A installation will be the same, except for the addition of audio connections.
- Test to make sure that the entire installation works properly prior to pulling cables through ceilings/walls.
- To achieve maximum distance and performance, 24AWG solid wire Cat5e/6 cable must be used. The use of stranded wire Cat5e/6 cable, or cable with a gauge (AWG) size higher than 24AWG, will result in shorter extension distance. All Tripp Lite N202-Series Cat6 cables are made with 24AWG solid wire. Tripp Lite's N022-01K-GY (Cat5e) and N222-01K-GY (Cat6) are 24AWG solid wire bulk cables. For optimal image quality, use Zero-Skew cable, such as Tripp Lite's P524-01K.
- To achieve maximum resolution, it is recommended that you use Tripp Lite P502-Series VGA video or P504-Series VGA video and audio\* cables with RGB coax.

## Installation Instructions

- 1** Make sure that the power to the source and other equipment being connected is turned off.
- 2** Connect the VGA and audio\* source to the INPUT port(s) on the transmitter unit using a VGA and audio\* cable.
- 3 (Optional)** – Connect a local monitor and speakers\* to the OUTPUT 1 and OUTPUT 2 ports on the transmitter unit using VGA and audio\* cables.
- 4** Connect the external power supply to the transmitter unit, and then plug it into a Tripp Lite Surge Protector, Power Distribution Unit (PDU) or Uninterruptible Power Supply (UPS).
- 5** Using Cat5e/6 cable, connect the RJ45 OUTPUT port on the transmitter unit to the RJ45 INPUT port on the receiver unit.
- 6** Connect a monitor and speakers\* to the OUTPUT 1 and OUTPUT 2 ports on the receiver unit using VGA and audio\* cables.
- 7** Connect the external power supply to the receiver unit, and then plug it into a Tripp Lite Surge Protector, PDU or UPS.
- 8** Turn on the power to the source and connected equipment.
- 9** If necessary, adjust the Equalization setting using the included screwdriver to improve the video image.

*\* If using the B130-202A*

## Troubleshooting

If you are unable to get an acceptable image after following the installation instructions, try the troubleshooting tips below.

- 1** Are the external power supplies that came with the product connected and plugged into a working power source? For the product to function properly, it must be connected to and receiving power from the external power supply.
- 2** Was the power to the VGA source turned off prior to installation? If not, restart your computer.
- 3** Compatibility issues can occur when EDID information is not properly communicated between the source and the display. The B130-202 and B130-202A include an EDID copy feature which stores a monitor's EDID information and sends it to the source, ensuring optimal compatibility. If you did not store a monitor's EDID copy, perform the EDID copy procedure described in this manual.

**Note:** Because EDID copy is supposed to be performed prior to installation, you may need to restart your computer if you perform a copy after setting everything up.

- 4** Have you adjusted the Equalization setting on the receiver unit? There is a built-in Equalization adjustment knob on the receiver, which can be adjusted to obtain the best picture quality. Use the mini screwdriver included with the product to adjust this setting until an acceptable image is displayed.
- 5** What resolution are you trying to reach? The B130-202 and B130-202A are tested to support up to 1440 x 900 @ 60 Hz video resolution (See the **Product Features** section in this manual for details on max distance and resolution). The shorter the extension distance, the higher the resolution you will be able to obtain. If you are not able to get an acceptable image after adjusting the Equalization setting, try lowering your computer's video resolution or adjusting the refresh rate.



## Troubleshooting

- 6** What type of cabling are you using? Inferior cabling can result in poor performance, so it is important that you use cables that can support the video resolution you are trying to obtain. To achieve maximum distance and resolution, 24AWG solid wire Cat5e/6 cable must be used. Tripp Lite's N202-Series Cat6 cables are made with 24AWG solid wires, as are the N022-01K-GY (Cat5) and N222-01K-GY bulk cables. For optimal image quality, use Zero-Skew cable, such as Tripp Lite's P524-01K. Also, the VGA cables you are using must support the resolution you are trying to obtain. Inexpensive, low-quality VGA cables may not support the maximum resolution. It is recommended that you use Tripp Lite's P502-Series VGA or P504-Series VGA + audio cables, as they have been tested to work with Tripp Lite's VGA over Cat5 extender products.
- 7** Is your Cat5e/6 cabling wired to TIA 568B? Tripp Lite's VGA over Cat5 extender products have been tested using Cat5e/6 cabling wired to TIA 568B (all Tripp Lite Cat5e/6 cables are wired to TIA 568B). Using cabling that is wired differently may affect performance.
- 8** Test your cables to ensure they are working properly. For example, connect your VGA cables between a source and a monitor that you know is working properly to see if the cable is functioning. For Cat5e/6 cable, connect it between a computer and a network to verify that it establishes a network connection. When testing your cables, test them between the source and monitor(s) being used in your installation. This will ensure that your source and monitor(s) are compatible.
- 9** Do you have any patch panels or other devices in between the transmitter and receiver units? Tripp Lite's VGA over Cat5 extender products were designed to be connected directly from the transmitter to the receiver via UTP cable. The more connection points that are between the source and the remote monitor, the more likely signal degradation will occur, causing poor performance. If you have a patch panel or other device in between, it should be removed from the installation.

## Troubleshooting

- 10** Check your cabling for any damage that may have occurred during installation. If a cable connector is loosened from pulling through ceilings/walls, or the cable jacket is damaged, causing the wiring to be exposed, you will not be able to achieve maximum performance.
- 11** Are the transmitter and/or receiver units located in an area that exposes them to elevated temperatures? If the product is overheating, it will not function properly.
- 12** Are you using a VGA to DVI adapter with this product? If so, you will need to have it connected to a DVI source or monitor that supports both Analog and Digital signals. If your DVI source or monitor supports DVI-D digital signals only, you will not be able to convert it to VGA.

# Warranty & Product Registration

## 1-Year Limited Warranty

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of one (1) year from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

EXCEPT AS PROVIDED HEREIN, TRIPP LITE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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## PRODUCT REGISTRATION

Visit [www.triplite.com/warranty](http://www.triplite.com/warranty) today to register your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!\*

\* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

## FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

## WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)



Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

## WARNING

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Tripp Lite follows a policy of continuous improvement. Product specifications are subject to change without notice.



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