# Gefen

# VGA RS-232
# Extender

## USER MANUAL

www.gefen.com

# ASKING FOR ASSISTANCE

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**Notice**
Gefen Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

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# INTRODUCTION

Thank you for purchasing the new ex•tend•it VGA RS232 Extender by Gefen, Inc.

The ex•tend•it VGA RS232 Extender by Gefen allows users the benefits of extending VGA and RS232 signals beyond the desktop. The VGA RS232 Extender series can be used to extend a VGA and RS232 signal to cover the distance of 330 feet. Industry standard Category 5 (CAT-5) cable is used for the extension.

**CONTENTS**
The VGA RS232 Extender system consists of:

(1) VGA RS232 Extender sender unit
(1) VGA RS232 Extender receiver unit
(2) 5 VDC power supply
(1) VGA M-F cables (6FT)
(1) Serial Cable
(1) User Manual

**HOW IT WORKS**
In its most basic application, the VGA RS232 Extender sender resides next to the computer. With the supplied VGA and Serial cable, the VGA RS232 Extender sender is connected to the computer. The VGA RS232 Extender receiver is then placed next to the monitor or projector and RS232 device. Industry standard Category 5 (CAT-5) cable is used to link the VGA RS232 Extender sender and VGA RS232 Extender receiver together.

**READ THESE NOTES BEFORE INSTALLING**
**OR OPERATING THE VGA RS232 EXTENDER SYSTEM**

• Use industry standard Category-5 (CAT-5) cable to operate the VGA RS232 Extender system. CAT-5 E cable is preferred.

• Please connect all the cables between the computer and the VGA RS232 Extender before powering up the VGA RS232 Extender unit.

• The VGA RS232 Extender units are housed in a metal box for better RF shielding.

# INSTALLATION INSTRUCTIONS

1. Connect the VGA RS232 Extender sender unit to the VGA and RS232 ouput on the back of your computer. The six foot RS232 and M-F VGA cables connect the CPU and sender unit together.

2. Connect the VGA RS232 Extender receiver unit to your monitor with the VGA cable that is attached to your monitor.

3. Connect the VGA RS232 Extender receiver unit to your RS232 device.

4. Connect the CAT5 cable between the VGA RS232 Extender sender and receiver's CAT5 input.

5. Plug the 5 volt power supplies into both the sender and receiver unit.
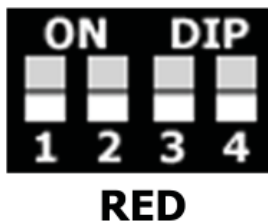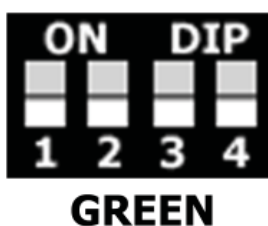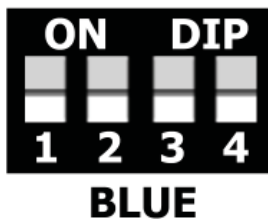
   NOTE: The Brightness trim pod "B" can be adjusted to change the brightness of the picture.

# HOW TO ADJUST THE PICTURE

The first step in adjusting the video quality is to display text and a graphic on your monitor (i.e. desktop icons). Then set your computer to the resolution that you will be using most frequently. The dip switches are used to set the focus and sharpness of the picture to the best possible setting. Set the dip switches to the settings that are recommended for the different lengths of CAT5 cable (see chart below). Verify that the picture quality is to your satisfaction. If the recommended setting does not produce a great quality picture, try using a different dip switch setting. The trim pod next to the VGA connector on the VGA RS232 Extender-R allows brightness adjustments for video.

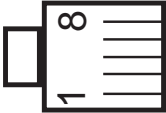| 0-25 Feet | All dip switches OFF for all colors. |
|---|---|
| 26-100 Feet | Set dip switch #1 ON all colors. 1,2,3 remain OFF. |
| 101-200 Feet | Set dip switch #2 ON all colors. 1,2,4 remain OFF. |
| 201-300 Feet | Set dip switch #3 ON all colors. 1,3,4 remain OFF. |
| 301 Feet and Up | Set dip switch #4 ON all colors.  2,3,4 remain OFF. |

NOTE: The dip switches are set to the OFF positon when the switch is closest to the number or in the down position.


BLUE


GREEN


RED

**RJ-45 Jack**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

White/Orange
Orange
White/Green
Blue
White/Blue
Green
White/Brown
Brown

**RJ-45 Jack**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

# SPECIFICATIONS

Video Amplifier Bandwidth ................................................................ 350 MHz

Actual Bandwidth ........................................................................ 120 MHz

Input Video Signal ................................................................... 1.2 Volts p-p

Horizontal Frequency Range ........................................................15-70 KHz

Vertical Frequency Range ............................................................ 30-170 Hz

Video In ................................................................................ HD-15 Male

Video Out .......................................................................... HD-15 Female

Serial In ..............................................................................9-Pin Female

Serial Out ..............................................................................9-Pin Male

Link Connector ........................................................................... RJ-45

Power Consumption ............................................................... 5 Watts (max)

Power Supply ...................................................................... 5VDC (External)

Dimensions .................................................................. 1.25"H x 4"W x 3"D

Shipping Weight .......................................................................... 3 Lbs

# WARRANTY

Gefen Inc. warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen Inc. is notified within one (1) year from the date of shipment, Gefen System will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical or other abuse or modifications.

Equipment 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 ninety (90) days from the day of shipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

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