Gefen

®

CAT5•5500

**EXT·CAT5·5500
USER'S MANUAL**

CAT5·5500 R
2X Video USB Audio Receiver
F2 B1 F2 B1 Power
Focus/Brightness

CAT5·5500 S
2X Video USB Audio Sender
Power

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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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OPERATION NOTES

**READ THESE NOTES BEFORE INSTALLING
OR OPERATING THE CAT5•5500 SYSTEM**

* Industry standard Category-5 (CAT-5) cables are used to operate CAT5•5500 system. Linking the CAT5•5500 sender and receiver units together requires one CAT-5 cable to extend the first monitor. A second CAT-5 cable is required to extend the second monitor signal and a third CAT-5 cable is required to extend USB and audio.

* When monitors are used in the local and remote locations, the video monitors must be able to use the same resolution. This pertains to monitors placed remotely, and those divided between local and remote locations. The video monitors will not initialize correctly at start-up if they are unable to sync the same resolution of the local monitors.

* The CAT5•5500 units are housed in a metal box for better RF shielding.

INTRODUCTION

Thank you for purchasing the new ex•tend•it CAT5•5500 series by Gefen, Inc.

The ex•tend•it CAT5•5500 by Gefen allows users the benefits of extending USB, audio, and video signals beyond the desktop. In a growing number of applications, broadcast stations and production facilities there is a need to control a computer remotely. The keyboard, mouse, and video monitor are relocated to the remote side. A CPU may need to be shared between several users or moved to another room because of annoying fan noise.

The CAT5•5500 series can be used to extend computers with noisy fans, printers, hard drives, scanners, cameras, keyboards, mouse, and any other USB-type peripherals. The CAT5•5500 has the potential to cover the distance of 330 feet over industry standard Category 5 (CAT-5) cables. One can connect additional CAT5•5500 series to the same computer, allowing access to the same computer from other locations up to 330 feet apart.

CONTENTS

The CAT5•5500 system consists of:

(1) CAT5•5500S sender unit
(1) CAT5•5500R receiver unit
(2) 5 VDC power supplies
(2) Video cables (6FT)
(1) USB cable (06FT)
(1) Audio cable (06FT)
(1) User Manual

HOW IT WORKS

In its most basic application, the CAT5•5500S sender unit resides next to the computer. Supplied with the system, VGA, audio, and USB cables, they connect the computer to the CAT5•5500S sender unit.

The CAT5•5500R receiver unit is placed next to the monitors and USB peripherals at the remote location. The monitors and USB peripherals are connected to the CAT5•5500R, similar to the way they are connected to the back of the computer (PC or Macintosh).

Industry standard Category 5 (CAT-5) cables are used to link CAT5•5500S sender and CAT5•5500R receiver units together. The CAT5•5500 model requires one CAT-5 cable to extend the first monitor. A second CAT-5 cable is required to extend the second monitor signal and a third CAT-5 cable is required to extend USB and audio.

FRONT PANEL FUNCTION DESCRIPTIONS

1   **Power On Indicator -** Indicates that the unit is on and plugged in.

Front Panel Function Descriptions

1   **F2 -** Fine focus adjustment for monitor 2

2   **B2 -** Adjusts the brightness for monitor 2

3   **F1 -** Fine focus adjustment for monitor 1

4   **B1 -** Adjusts the brightness for monitor 1

5   **POWER ON INDICATOR -** Indicates that the unit is plugged in and powered on
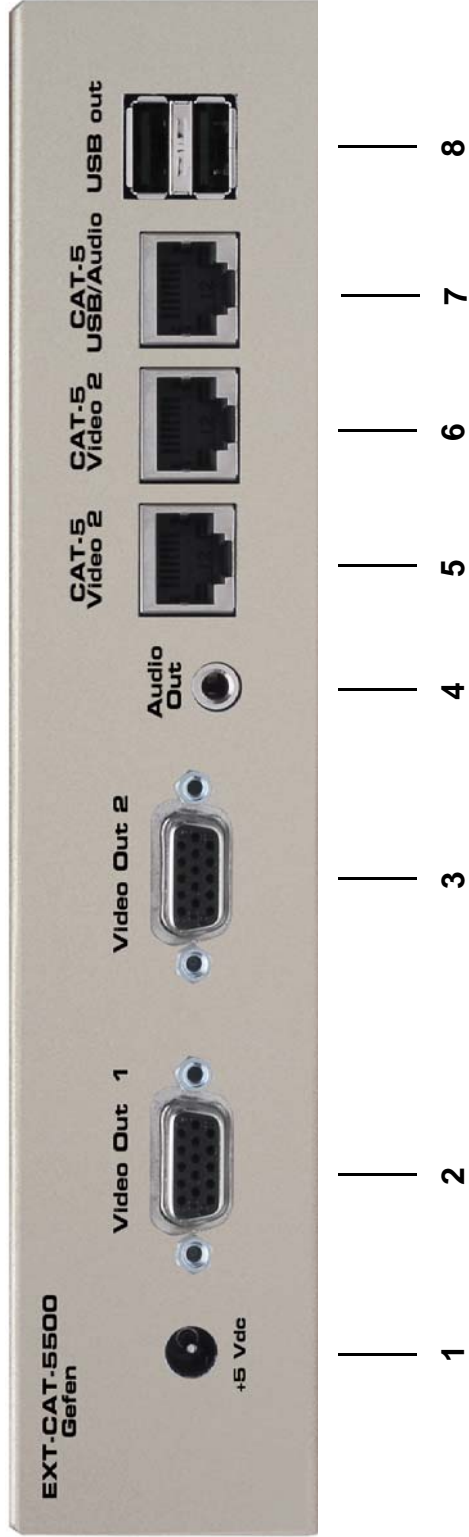
CAT5•5500S BACK PANEL FUNCTIONS

1   **POWER -** 5 VDC external power supply

2   **MONITOR 1 -** HD15 output connects to the monitor 1 for local video

3   **VIDEO IN 1 -** HD15 input from computer

4   **MONITOR 2 -** HD15 output connects to the monitor 2 for local video

5   **VIDEO IN 2 -** HD15 input from computer

6   **CAT5 2 Video 2 -** RJ-45 input extends video input 2 with CAT-5 cable

7   **CAT5 2 Video 1 -** RJ-45 input extends video input 2 with CAT-5 cable

8   **CAT5 1 USB/AUDIO -** RJ-45 input extends USB and audio signals with CAT-5 cable

9   **AUDIO IN -** Audio Mini Jack input from computer

10   **USB IN -** USB Input from computer

EXT-CAT-5500
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+5 Vdc — 1

Video Out 1 — 2

Video Out 2 — 3

Audio Out — 4

CAT-5 Video 2 — 5

CAT-5 Video 2 — 6

CAT-5 USB/Audio — 7

USB out — 8

1   **POWER -** 5 VDC external power supply

2   **VIDEO OUT 1 -** HD15 output connecting to the video monitor 1

3   **VIDEO OUT 2 -** HD15 output connecting to the video monitor 2

4   **AUDIO -** Audio Mini Jack

5   **CAT-5 Video 2 -** RJ-45 input connects CAT-5 cable to receive extended video signals

6   **CAT-5 Video 1 -** RJ-45 input connects CAT-5 cable to receive extended video signals

7   **CAT5 USB/Audio -** RJ-45 input connects CAT-5 cable to receive extended USB and audio signals

8   **USB OUT -** USB Outputs - Connects to USB devices

Jumper settings are used to set the focus of the picture and characters to the best possible sharpness. The jumpers in the CAT5•5500R are set at the factory as shown in the diagram below. The first step to adjusting the video is to have the CAT5•5500S and CAT5•5500R connected together with the CAT-5 cable that is going to be used in the installation. Then set your computer to the resolution and refresh rate that you will be using most frequently be using. Then open up the CAT5•5500R by unscrewing the bottom three screws on back end of the box. Then two screws on each side of the box and the top. That is 9 screws in total that need to be removed. Lastly the 4 hex bolts around the Monitor Out port and the Video In port need to also be removed. After that look at some text on the monitor and set the jumpers to the recommended jumper setting based on the length of your CAT-5 cable. If you still see some smearing try moving all the jumpers up or down one from the recommended setting. If you see smearing of just one color adjust an individual jumper for the color that is smearing (it can be two colors). Repeat the same steps for monitor 2

Recommended Jumper Settings

Jumper Settings

Cable length

0-132 feet

*As shown in picture

133-198 feet

199-264 feet

265-330 feet

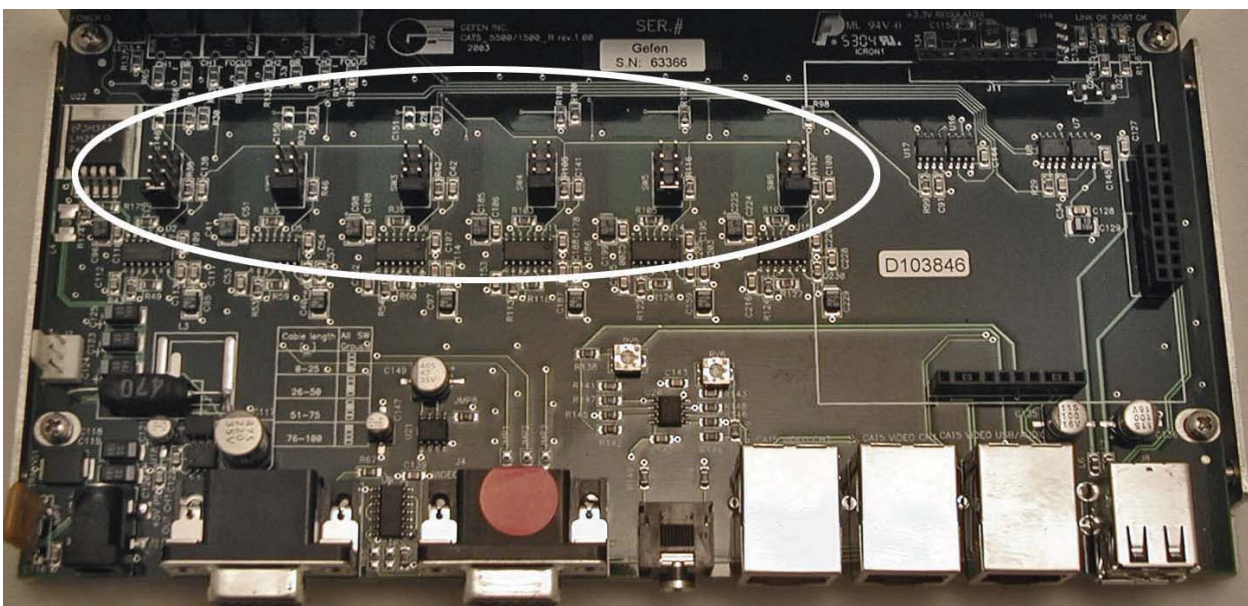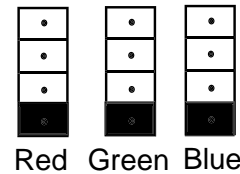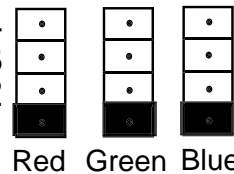Video 1 on the left

Position 4 3 2 1

Red   Green   Blue

Video 2 on the right

Red   Green   Blue

RJ-45 Jack

1 2 3 4 5 6 7 8

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

1 2 3 4 5 6 7 8

RJ-45 Jack

8
1

8
1
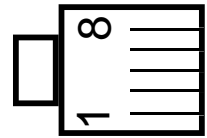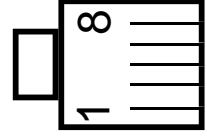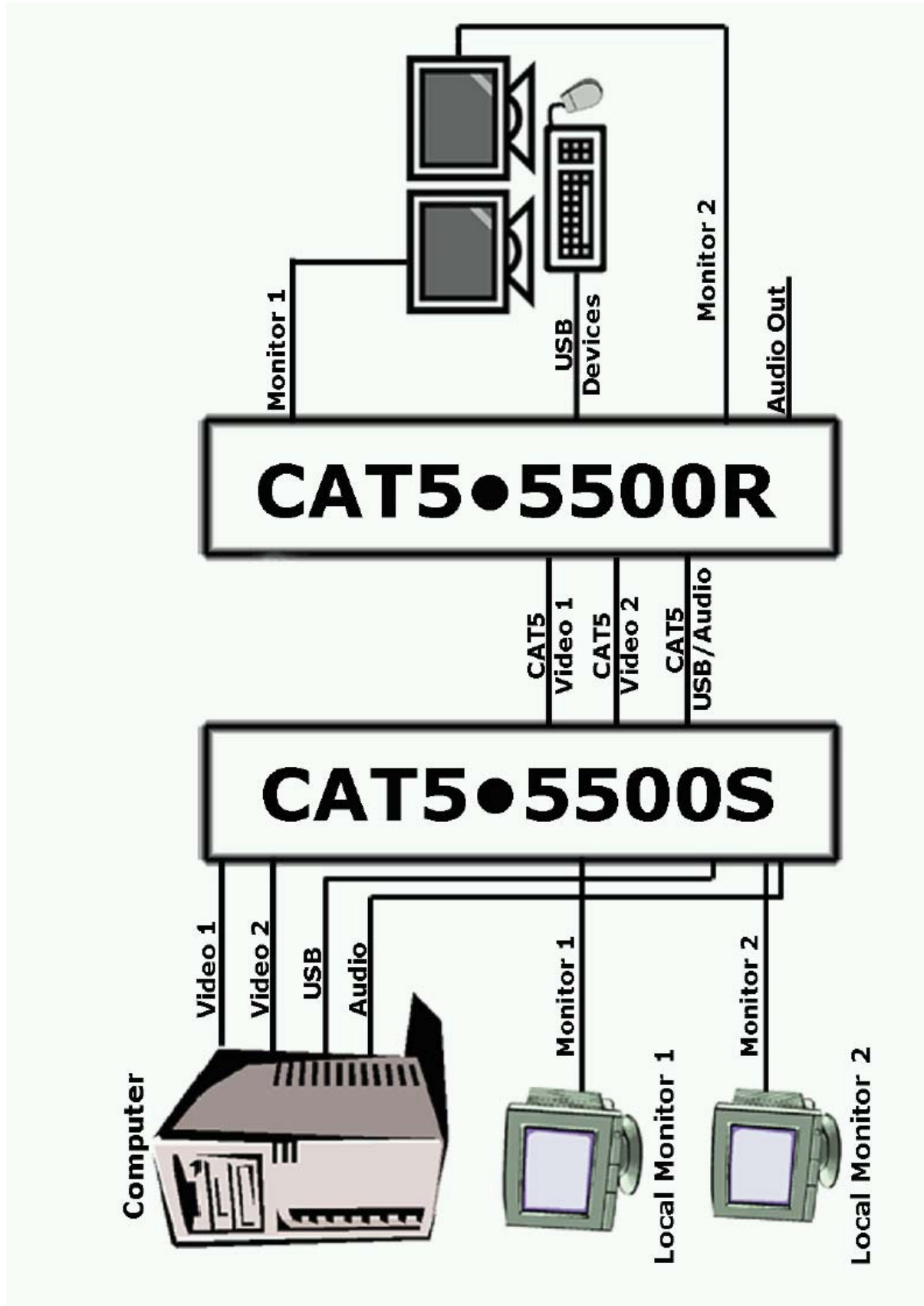
SPECIFICATIONS

Video Amplifier Bandwidth .... 350 MHz

Actual Bandwidth .... 120 MHz

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

Input Sync Signal .... 5 Volts p-p (TTL)

Horizontal Frequency Range .... 15-70 KHz

Vertical Frequency Range .... 30 - 170 Hz

Video In HD-15

Focus/Brightness Control .... 25 to 450 FT

Video out HD-15

Link Connector RJ-45

USB - "A" Connector .... USB Out

USB - "B" Connector .... USB Device Input

Power Consumption .... 15 Watts (max.)

Power Supply .... 5 VDC (External)

Dimensions Send Unit .... 16"W x 1 3/4"H x 4"D

Dimensions Receive Unit .... 8"W x 1 3/4"H x 4"D

Rack Mountable .... 2 Rack Spaces

Shipping Weight .... 9 Lbs

WARRANTY

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

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen 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 reshipment 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.

1. Proof of sale may be required in order to claim warranty.

2. Customers outside the US are responsible for shipping charges to and from Gefen.

3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, please visit Gefen's Warranty web page at http://www.gefen.com/kvm/aboutus/warranty.jsp

PRODUCT REGISTRATION

**Please register your product online by visiting Gefen's web site at
http://www.gefen.com/kvm/Registry/Registration.jsp**

ma-cat5-5500

This product uses UL listed power supplies.