



CAT5•1000
USER MANUAL

www.gefen.com

ASKING FOR ASSISTANCE

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INTRODUCTION

Thank you for purchasing the new ex•tend•it CAT5•1000 series.

The ex•tend•it CAT5•1000 allows users the benefits of extending VGA, USB, and audio 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•1000 can be used to extend computers with printers, hard drives, scanners, cameras, keyboards, mouse, and any other USB-type devices. The CAT5•1000 has the potential to extend the distance of 330 feet over industry standard Category 5 (CAT-5) cable. One can connect multiple CAT5•1000 units to the same computer, allowing access to the same computer from different locations up to 330 feet apart.

FEATURES

Features:

- Saves space—no need to make room for large or small CPUs at the workstation when the CAT5-1000 provides convenient and flexible ways to isolate the CPU and expand the workstation
- Increased productivity—a remote computer workstation allows computer data to be input and accessed on-site in real-time
- Improved aesthetics—the CAT5-1000 eliminates computer noise where you work
- Full functionality—the CAT5-1000 maintains 1920 x 1200 x 75 resolution video, support two types of analog monitors (CRT and LCD) and DDC control signals
- High Performance Technology—both models use Extreme USB technology for USB extension, ensuring control signals operate optimally
- Multimedia Enabled—audio is extended for multimedia applications
- Ease of use— the CAT5-1000 installs in seconds and are rack-mountable

The CAT5•1000 system consists of:

- (1) CAT5•1000S sender unit
- (1) CAT5•1000R receiver unit
- (2) 5 VDC power supply
- (1) Video cable (6 FT)
- (1) USB cable (6 FT)
- (1) Audio cable (6 FT)
- (1) User Manual

HOW IT WORKS

In its most basic application, the CAT5•1000S sender unit resides next to the computer. With the supplied VGA, USB, and audio cables, they connect the computer to the CAT5•1000S sender unit.

The CAT5•1000R receiver unit and USB peripherals are placed next to the monitor. The monitor and USB devices are connected to the CAT5•1000R in the same 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•1000S sender and CAT5•1000R receiver units together. The VGA, USB, and audio signals are extended by one CAT-5 cable.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE CAT5•1000 SYSTEM

- * Industry standard Category-5 (CAT-5) cables are used to link the CAT5•1000 sender and receiver boxes together.
- * When two monitors are used in the local and remote locations, the video monitors must be a multi-resolution type. 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 different types.
- * The CAT5•1000 units are housed in a metal box for better RF shielding.

CAT5•1000S FRONT PANEL LAYOUT



1

Front Panel Function Descriptions

- 1 **POWER ON INDICATOR** - Indicates that the unit is plugged in and powered on

CAT5•1000R FRONT PANEL LAYOUT

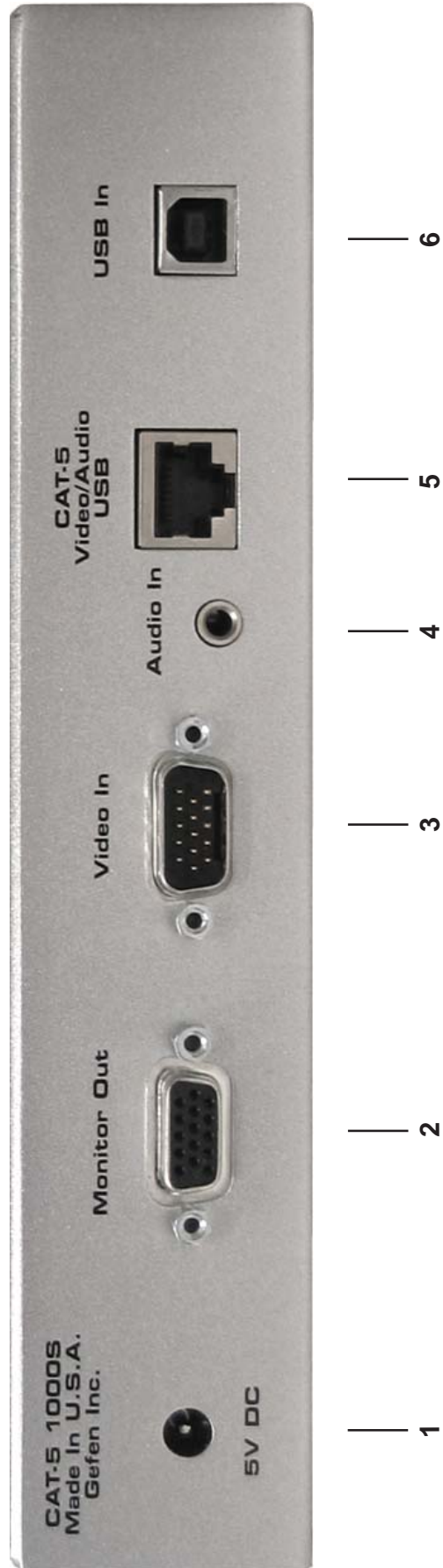


1 2

Front Panel Function Descriptions

- 1 **BRIGHTNESS** - Adjusts the brightness for monitor 1
- 2 **POWER ON INDICATOR** - The red LED indicates that the unit is powered on

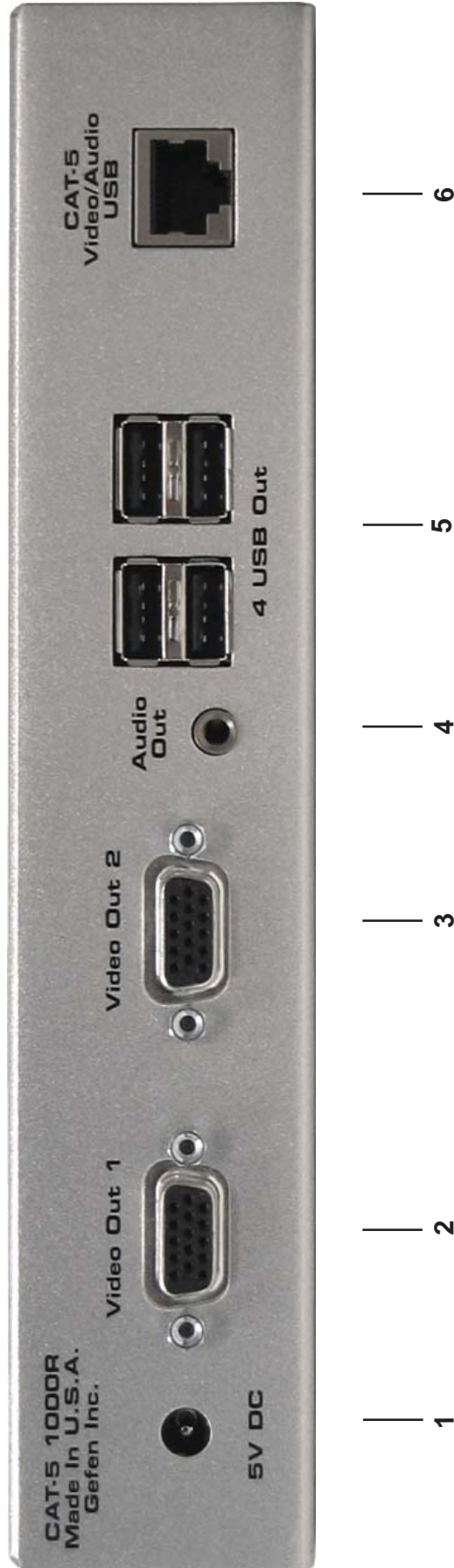
CAT5•1000S SEND UNIT BACK PANEL



CAT5•1000S BACK PANEL FUNCTIONS

- 1 **POWER** - 5 VDC external power supply
- 2 **MONITOR OUT** - HD15 output connects to the monitor for local video
- 3 **VIDEO IN** - HD15 input from computer
- 4 **CAT-5 VID/AUD/USB** - RJ-45 input extends VGA, USB, and audio signals with CAT-5 cable
- 5 **AUDIO** - Audio mini Jack input from computer
- 6 **USB IN** - USB Input from computer

CAT5•1000R BACK PANEL LAYOUT



CAT5•1000R BACK PANEL FUNCTIONS

- 1 POWER** - 5 VDC external power supply
- 2 VIDEO OUT 1** - HD15 output connecting to the video monitor
- 3 VIDEO OUT 2** - HD15 output connecting to the video monitor (mirrored video)
- 4 AUDIO** - Audio Mini Jack
- 5 4 USB OUT** - USB Outputs (Type A) - Connects to USB devices
- 6 CAT-5 VID/AUD/USB** - RJ-45 input connects CAT-5 cable to receive extended VGA, USB, and audio signals

CAT5 CABLE LENGTH SETUP

Jumper settings are used to set the focus of the picture and characters to the best possible sharpness. The jumpers in the CAT5•1000R are set at the factory as shown in the diagram below. The first step to adjusting the video is to have the CAT5•1000S and CAT5•1000R 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•1000R 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

Cable length

0-132 feet



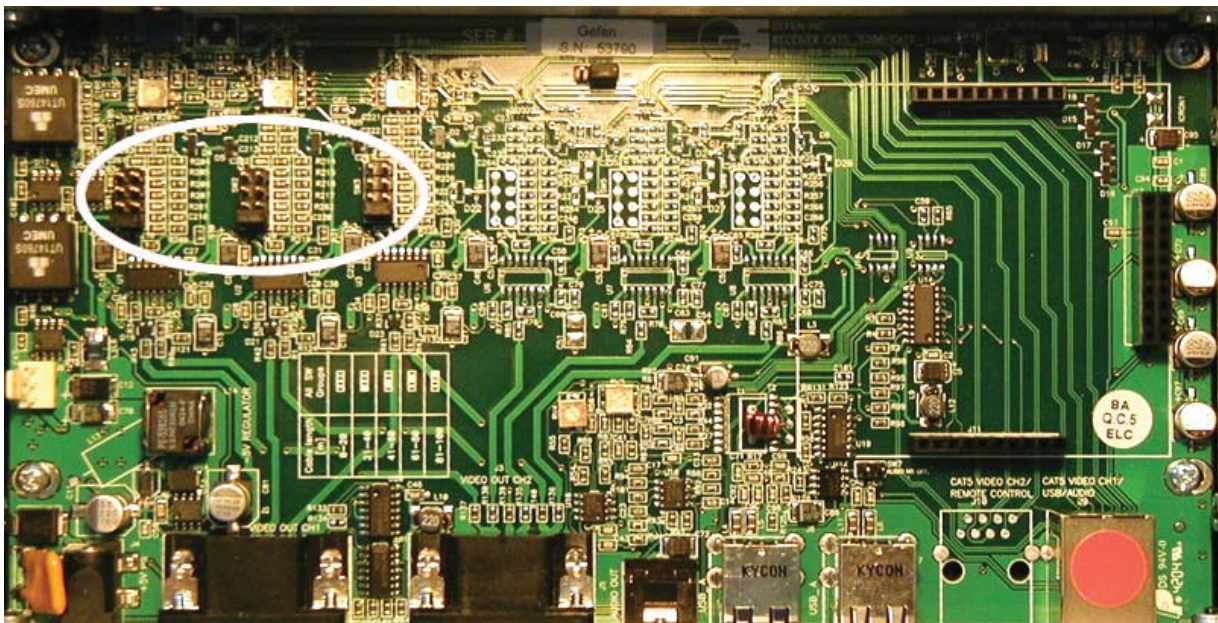
133-198 feet



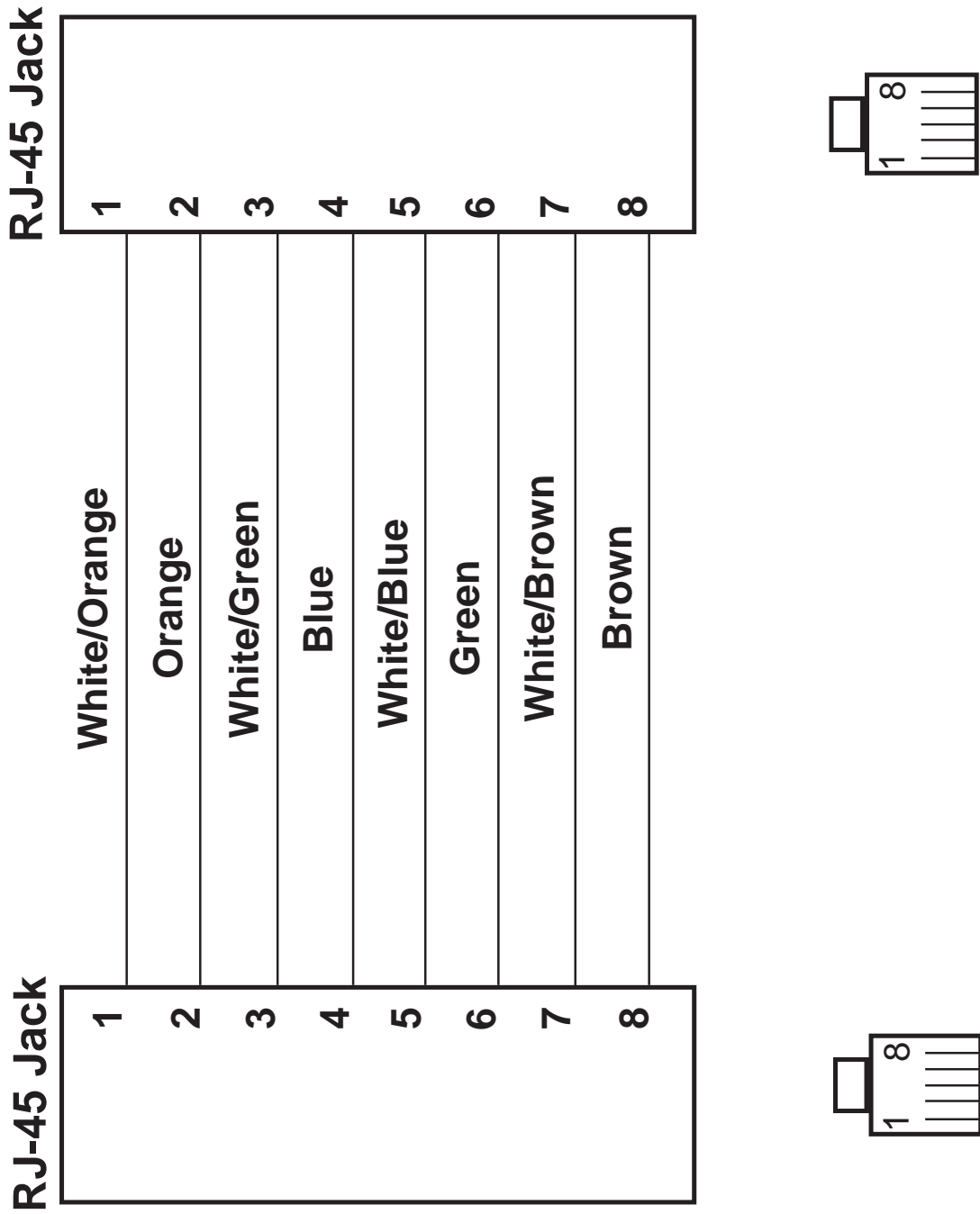
199-264 feet



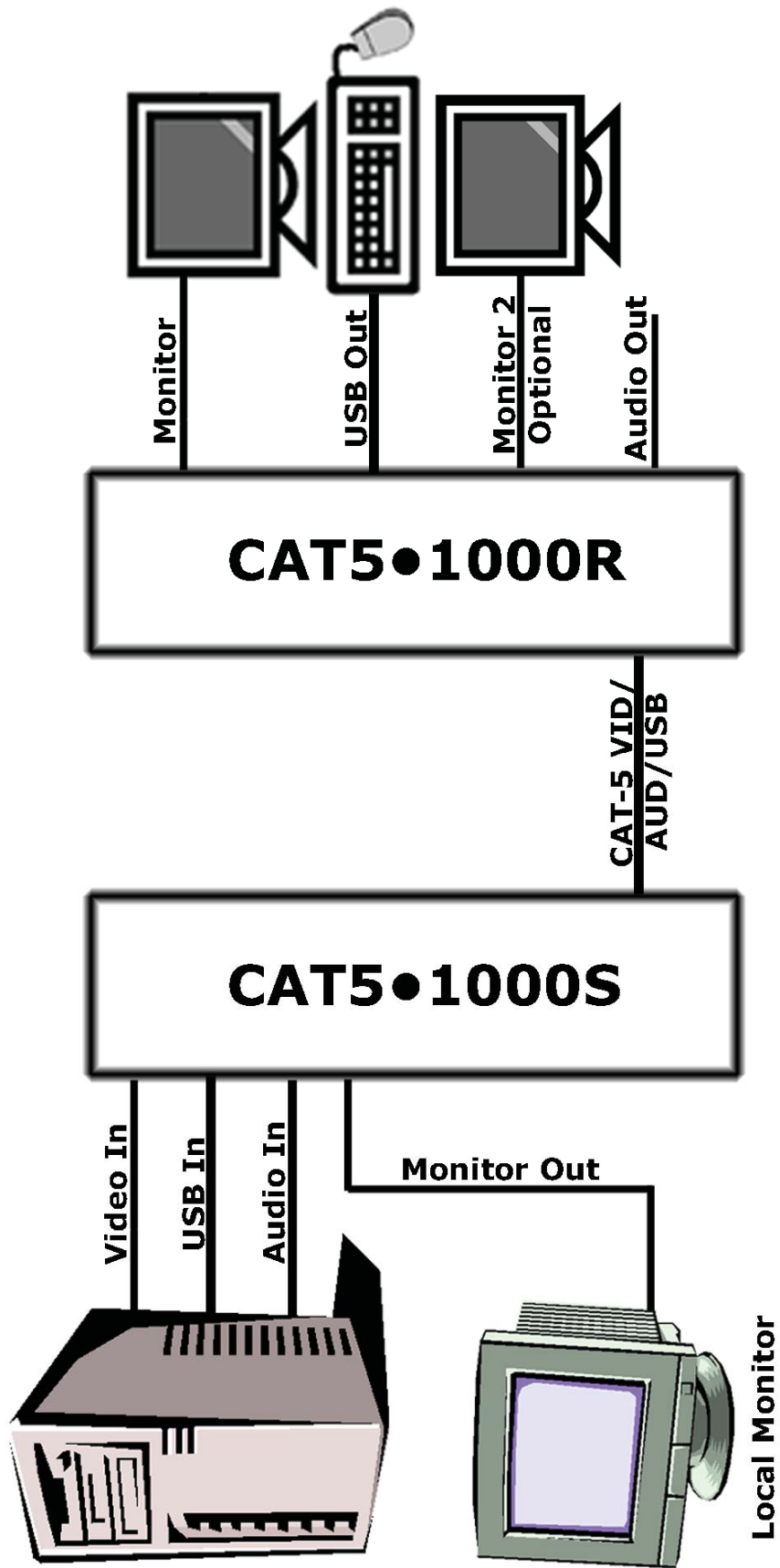
265-330 feet



LINK CABLE - WIRING DIAGRAM



CAT5•1000 WIRING DIAGRAM



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 Input
USB - "B" Connector	USB Device Input
Power Consumption	15 Watts (max.)
Power Supply	5 VDC (External)
Dimensions	1.75"H x 8.4"W x 4.6"D
Rack Mountable	1 Rack Spaces
Shipping Weight	8 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 Inc. 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 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.

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