

Remotely control your computer

Optional Accessories

Computer Extension : the CAT5-7000/CAT5-7500 Operate Dual-Display and Varied Peripherals Remotely

CAT5•7500



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CAT-5 Cables

Full Multimedia Functionality Provided at Extended Distances This hard-working dual-display ex tension solution comes in two versions that each allow multiple analog video, audio, control and support peripheral devices to be operated at any distance up to 330-feet (100-meters) from the computer. What differentiates the two is the video extension the behavior and be an extension of the support of behavior and behaviore and behaviore and behavior and behavior and behavio technique used and the amount of cabling needed for extension.

CAT5-7000 - Multipurpose and Flexible

CA15-7000 is built to extend two analog monitors, one USB-equipped computer peripheral (such as a scanner or printer), one PS/2-based keyboard/mouse, two audio outputs (for two sets of speakers, for example), one audio input (for microphone or similar audio device) and one RS-232 device (like a touchscreen). Plus, using Extreme USB technology, the CAT5-7000 can support a 4-port USB hub in the case that multiple USB-based computer devices need to be operated at the extended location. extended location.

For multimedia, graphics and a/v production professionals as well as gamers and dual-display fans, this is the flexible and reliable way to ensure you and your equipment can function ideally at any remote location.

Additional Video Refinement

The CAT5-7500 operates just like the CAT5-7000 but it sends video separately using its own CAT5 cable. This means it requires an additional CATS extension cable but it also enables video refinement capabilities for the extended monitors. Both video signals can also be extended a few hundred feet further (up to 600-feet) if needed. The CATS-7500 is the over-and-above solution for those who need the industrious CATS-7000 and have more discerning video requirements.

Designed to offer unprecedented flexibility with computer peripherals, both versions work with all CRT and LCD computer monitors, USB peripherals, PS/2 keyboards and mice, RS-232 and audio devices (Mac or PC).

How It Works

Both versions use a sender and receiver methodology to transmit signals from the computer to the workstation. The sender unit connects to the computer using the cables provided. The receiver unit connects to the two monitors, keyboard/mouse, USB, RS232 and audio devices up to 330-feet away. Multiple CAT5 extension cables (up to 4 for the CAT5-7000; up to 5 for the CAT5-7000), sold separately, connect the sender to the receiver and thus the computer to the extended workstation. Both the sender and the receiver units must be connected to a power supply. When fully powered and operational, the units extend all signals efficiently and reliably

Note: If you use a patch panel or patchcords both the cables and the patch have to be shielded

Features:

- Extends any two VGA displays up to 330 feet (100 meters) Maintains 1920 x 1200 resolution video Extends USB 1.1, RS-232, PS/2 and audio in/out devices up to 330 feet Uses five CAT-5e cables Sender rack ears included
- Local video Out

Specifications:

- Video Amplifier Bandwidth: 350 MHz
- Video Amplifier Bandwidth: 350 MHz Input Video Signal: 1.2 volts p-p Input Sync Signal: 5 volts p-p (TTL) Horizontal Frequency Range: 15 70 KI Vertical Frequency Range: 30 170 Hz Video In: HD-15 male Video out: HD-15 female ٠ 70 KHz

- Audio Connector: mini-phone Stereo 3.5mm Link Connector: RJ-45 Shielded
- •
- RS232 Connector: DB9 PS/2 Connectors: 6 pin Mini-DIN
- USB Input/Output Connectors: type B / type A Power Supply: 5V DC Power Consumption per unit: 20 watts (max) CAT5-7000S Dimensions: 17"W x 1.75"H x 4"D CAT5-7000R Dimensions: 8.5"W x 2"H x 4'D •

- Shipping Weight: 14 lbs

Package Includes:

- Sender Unit
- Receiver Unit Two 6ft VGA cables
- One 6ft USB cable Two 6ft PS/2 cables
- One 6ft Audio cable Two 5V Transformers
- Rack Ears



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EXT-CAT5-7500



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Technical Support Hours:

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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.

CAT5•7500 is a trademark of Gefen Inc. **Macintosh** is a trademark of Apple Computer Inc.

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Thank you for purchasing the new ex•tend•it CAT5•7500 series by Gefen, Inc.

The ex•tend•it CAT5•7500 by Gefen allows users the benefits of extending VGA, USB, PS/2, RS232, and audio signals beyond the desktop. In a growing number of applications, broadcast stations and production facilities there is a need to locate a computer remotely, from the keyboard, mouse, and video monitor. A CPU may need to be shared between several users or moved to another room because of annoying fan noise.

The CAT5•7500 series can be used to extend computers with noisy fans, printers, hard drives, scanners, cameras, keyboards, mouse, and any other USB-type devices. The CAT5•7500 has the potential to cover the distance of 330 feet over industry standard Category 5 (CAT-5) cables. One can connect additional CAT5•7500 series to the same computer, allowing access to the same computer from other locations up to 330 feet apart.

CONTENTS

The CAT5•7500 system consists of:

- (1) CAT5•7500S sender unit
- (1) CAT5•7500R receiver unit
- (2) 5 VDC power supply
- (2) VGA M-F cables (6FT)
- (2) PS/2 M-M cables (6FT)
- (1) USB cable (6FT)
- (1) Audio cables (6FT)
- (1) Rack Ears
- (1) User Manual

HOW IT WORKS

In its most basic application, the CAT5•7500S sender unit resides next to the computer. Supplied with the system, VGA cables, PS/2 keyboard, PS/2 mouse, audio, and USB cables, they connect the computer to the CAT5•7500S sender unit.

The CAT5•7500R receiver unit are placed next to the monitors, keyboard, mouse, and USB peripherals at the remote location. The monitor and keyboard are connected to the CAT5•7500R, 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•7500S sender and CAT5•7500R receiver units together. Monitor 1 is extended by one CAT-5 cable, monitor 2 is extended with a second CAT5 cable. USB and audio 1 are with a third CAT-5 cable. RS232 and PS/2 signals are extended with a forth CAT5 cable. Audio is extended with a fifth CAT5 cable.

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE CAT5•7500 SYSTEM

• Use industry standard Category-5 (CAT-5) cable to operate the CAT5•7500 system. CAT-5 E cable is preferred.

• 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.

• Please connect all the cables between the computer and the CAT5•7500S before power up the CAT5•7500S unit.

• The CAT5•7500 units are housed in a metal box for better RF shielding.



Front Panel Function Description

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

CAT5•7500R FRONT PANEL DESCRIPTIONS



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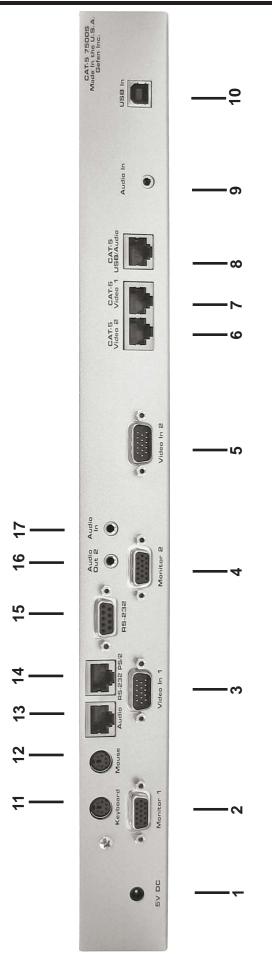
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Front Panel Function Description

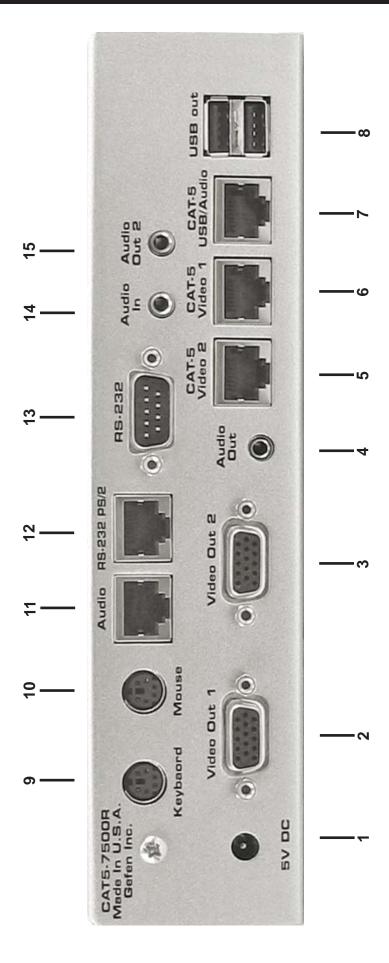
- 1 F2 Fine focus adjustment for monitor 2
- 2 B2 Adjusts the brightness for monitor 2
- **3 F1 -** Fine focus adjustment for monitor 1
- 4 B1 Adjusts the brightness for monitor 1
- 5 **POWER ON INDICATOR -** Indicates that the unit is plugged in and powered on

CAT5•7500S BACK PANEL LAYOUT



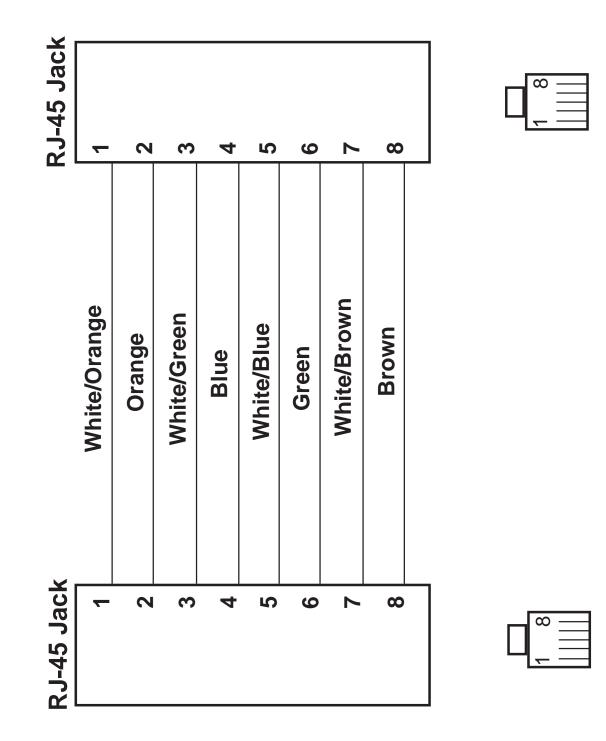
CAT5•7500S BACK PANEL DESCRIPTIONS

- **1 POWER -** 5 VDC external power supply
- 2 MONITOR 1 HD15 output connects to local monitor 1
- **3 VIDEO IN 1 -** HD15 input from computer
- 4 **MONITOR 2 -** HD15 output connects to local monitor 2
- 5 VIDEO IN 2 HD15 input from computer
- 6 CAT-5 VIDEO 2 RJ-45 input extends video input 2 with CAT-5 cable
- 7 CAT-5 VIDEO 1 RJ-45 input extends video 1 with CAT-5 cable
- 8 CAT-5 USB/AUD RJ-45 input extends USB and audio 1 with CAT-5 cable
- 9 AUDIO IN 1 Audio Mini Jack input from computer
- **10 USB IN USB input from computer**
- 11 **KEYBOARD -** Mini din PS/2 connector connects to PC for keyboard controls
- **12 MOUSE -** Mini din PS/2 connector connects to PC for mouse controls
- 13 CAT-5 AUDIO RJ-45 input extends audio out and audio 2 with CAT-5 cable
- 14 CAT-5 RS232/PS2- RJ-45 input extends RS232, and PS/2 keyboard and mouse with CAT-5 cable
- 15 RS232 DB-9 input from computer
- 16 AUDIO OUT 2- Audio Mini Jack input from computer
- 17 AUDIO IN 1 Audio Mini Jack input from computer

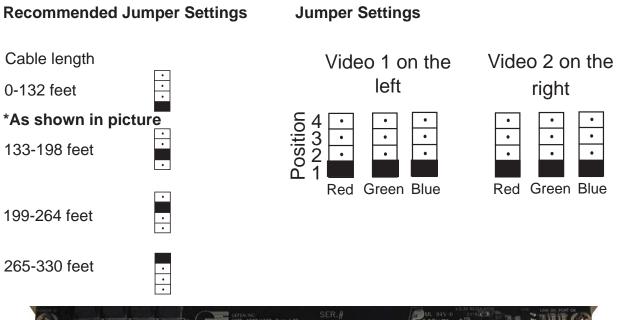


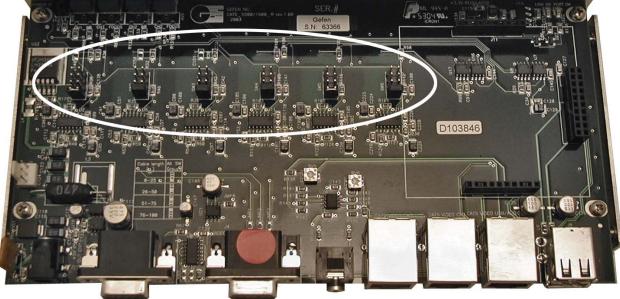
CAT5•7500R BACK PANEL DESCRIPTIONS

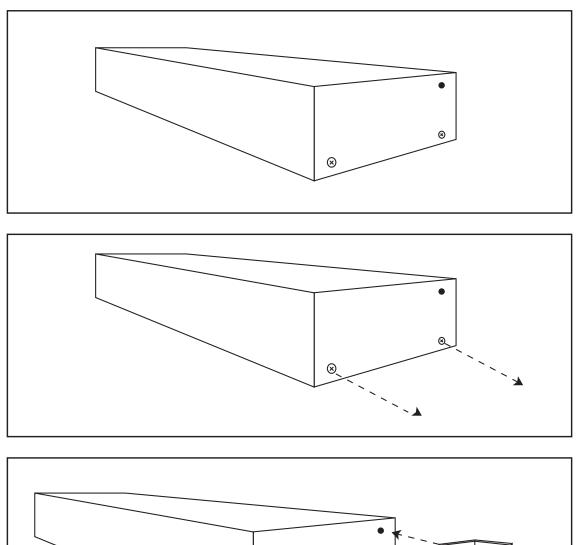
- **1 POWER -** 5 VDC external power supply
- 2 VIDEO OUT 1 HD15 output connecting to the video monitor 1
- **3 VIDEO OUT 2 -** HD15 output connecting to the video monitor 2
- 4 **AUDIO OUT 1 -** Audio mini jack connects to speakers
- 5 CAT-5 VIDEO 2 RJ-45 input connects CAT-5 cable to receive extended video signals
- 6 CAT-5 VIDEO 1 RJ-45 input connects CAT-5 cable to receive extended video signals
- 7 CAT-5 USB/AUDIO RJ-45 input connects CAT-5 cable to receive extended USB and audio 1 signals
- **8 USB OUT -** 2 port power USB hub, connects to USB devices
- 9 **KEYBOARD -** PS/2 output connects to the keyboard
- **10 MOUSE -** PS/2 output connects to the mouse
- 11 CAT-5 AUDIO RJ-45 input connects CAT-5 cable to receive extended audio in and audio 2 signals
- 12 CAT-5 RS232/PS2 RJ-45 input connects CAT-5 cable to receive extended RS-232 and PS/2 signals
- 13 RS232 DB-9 connector connects to RS-232 devices
- 14 AUDIO IN Audio mini jack connects to microphone
- **15 AUDIO OUT 2 -** Audio mini jack connects to speakers

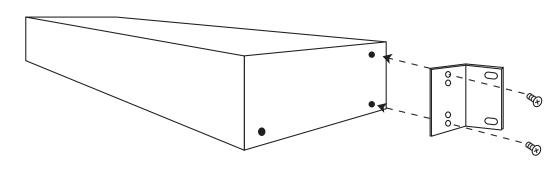


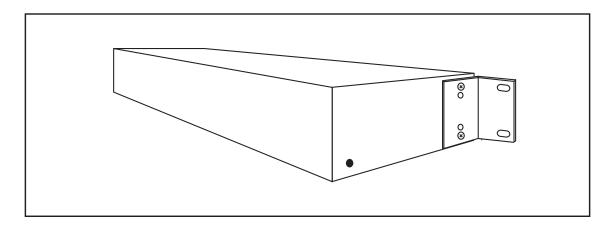
Jumper settings are used to set the focus of the picture and characters to the best possible sharpness. The jumpers in the CAT5•7500R are set at the factory as shown in the diagram below. The first step to adjusting the video is to have the CAT5•7500S and CAT5•7500R connected together with the CAT-5 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•7500R 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



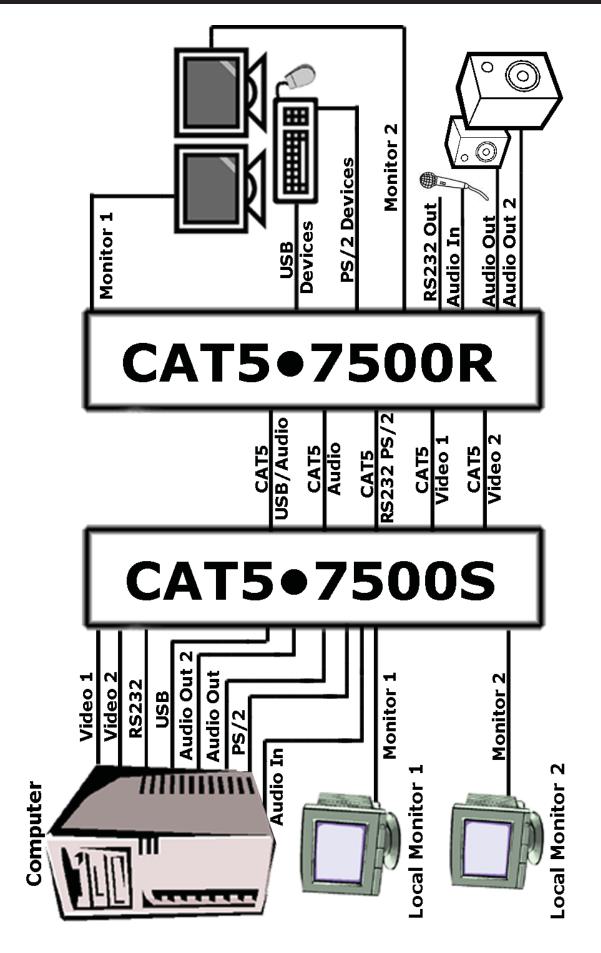








WIRING DIAGRAM



SPECIFICATIONS

Video Amplifier Bandwidth	350 MHz
Actual Bandwidth	120 MHz
Input Video Signal	1.2 Volts p-p
Video In	HD-15
Focus/Brightness Control	
Video out	HD-15
Link Connector	RJ-45
PS/2 Keyboard Connectors	
PS/2 Mouse Connectors	
USB - "A" Connector	USB Input
USB - "B" Connector	USB Device Input
Power Consumption	20 Watts (max)
Power Supply	
Dimensions	(CAT5•7500S) 1.7"H x 17"W x 4.6"D
Dimensions	(CAT5•7500R) 1.75"H x 8.4"W x 4.6"D
Rack Mountable	1 Rack Space
Shipping Weight	

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 two (2) 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 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 cable must be free from any scratches, markings, and neatly coiled.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen Inc. assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen Inc., 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 CAT5•7500 features and specifications is subject to change without notice.