



**CAT5 • 9000HD-NI**  
USER MANUAL

[www.gefen.com](http://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

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Thank you for purchasing the new extend•it CAT5•9000HD series by Gefen, Inc.

The extend•it CAT5•9000HD by Gefen allows users the benefits of extending DVI, 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, for example, or moved to another room because of annoying fan noise.

The CAT5•9000HD series can be used to extend computers with noisy fans, printers, and hard drives. With the potential to cover the distance of 150 feet, industry standard Category 5 (CAT-5) cables are used for the extension of all the devices. One can connect additional CAT5•9000HD series to the same computer, allowing access to the same computer from other locations up to 150 feet apart.

## CONTENTS

The CAT5•9000HD system consists of:

- (1) CAT5•9000HDS sender unit
- (1) CAT5•9000HDR receiver unit
- (2) 5VDC power supply
- (1) DVI to HDMI cable (6FT)
- (2) PS/2 cable (6FT)
- (1) Audio cables (6FT)
- (1) User Manual

## HOW IT WORKS

In its most basic application, the CAT5•9000HDS sender unit resides next to the computer. Supplied with the system, DVI, PS/2, and audio cables connect the computer to the CAT5•9000HDS sender unit.

The CAT5•9000HDR receiver unit are placed next to the monitors and keyboard, mouse, speakers, and RS232 devices, at the remote location. The monitor, keyboard, mouse, and other devices are connected to the CAT5•9000HDR similar to the way they are connected to the back of the computer (PC or Macintosh).

## **OPERATION NOTES**

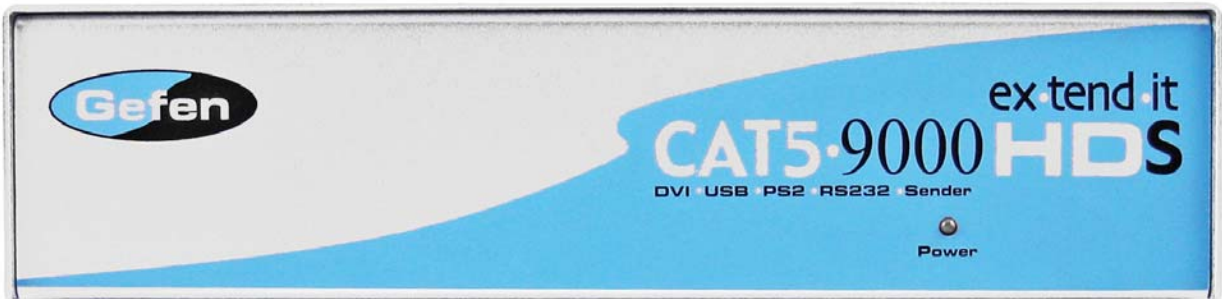
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### **READ THESE NOTES BEFORE INSTALLING OR OPERATING THE CAT5•9000HD SYSTEM**

- Use industry standard Category-5 (CAT-5) cable to operate the CAT5•9000HD system. CAT-5 E cable is preferred.
- Two CAT-5 cables are required to extend each DVI or HDMI Video signal
- Please connect all the cables between the computer and the CAT5•9000HDS before power up the CAT5•9000HDS unit.
- The CAT5•9000HD units are housed in a metal box for better RF shielding.

## CAT5•9000HDS FRONT PANEL DESCRIPTIONS

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### Front Panel Function Description

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

## CAT5•9000HDR FRONT PANEL DESCRIPTIONS

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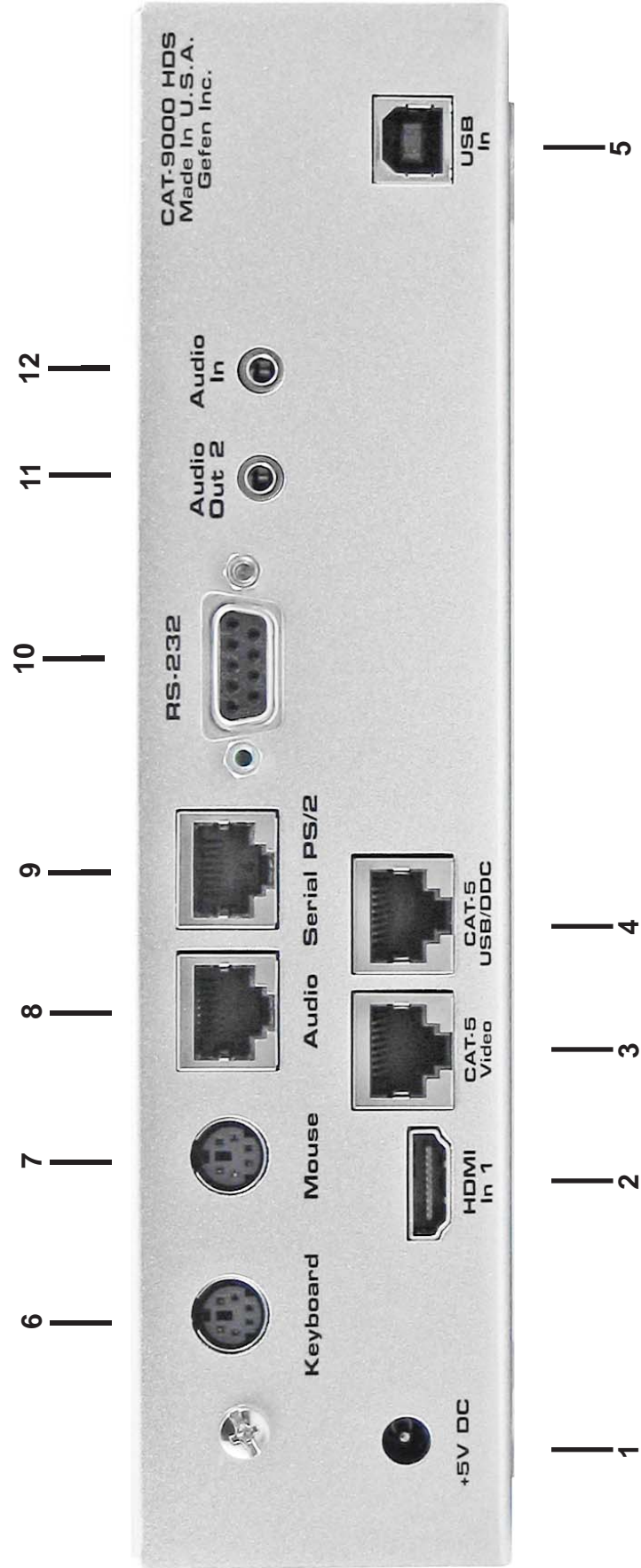


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### Front Panel Function Description

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

# CAT5-9000HDS BACK PANEL LAYOUT

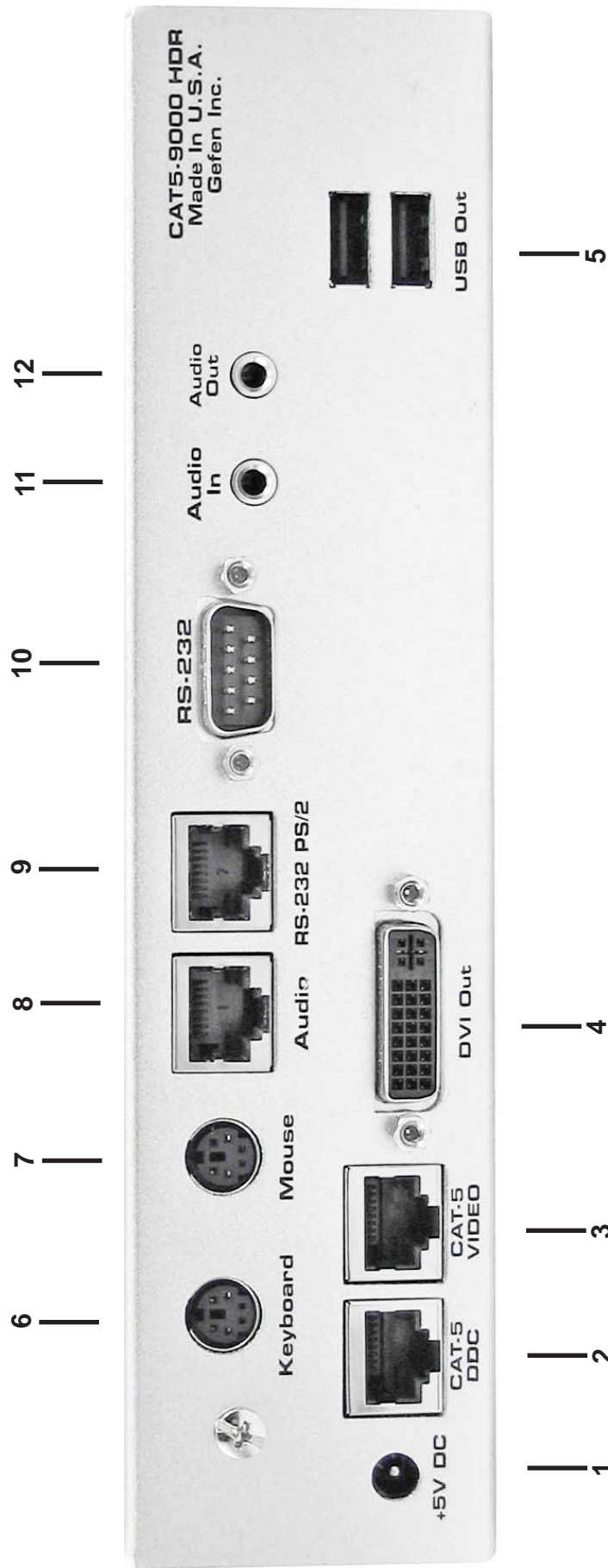


## **CAT5•9000HDS BACK PANEL DESCRIPTIONS**

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- 1 **POWER** - 5 VDC external power supply
- 2 **HDMI in 1** - HDMI Input connects to your computer with the supplied DVI to HDMI cable
- 3 **CAT5 Video 1** - RJ-45 input extends HDMI input 1 with CAT-5 cable
- 4 **CAT5 USB/DDC1** - RJ-45 input extends USB and DDC1 signals with CAT-5 cable
- 5 **USB IN** - Not Used
- 6 **KEYBOARD** - Mini din PS/2 connector connects to PC for keyboard controls
- 7 **MOUSE** - Mini din PS/2 connector connects to PC for mouse controls
- 8 **CAT-5 AUD** - RJ-45 input extends audio out and audio 2 with CAT-5 cable
- 9 **CAT-5 SERIAL/PS-2-** RJ-45 input extends RS232, and PS/2 keyboard and mouse with CAT-5 cable
- 10 **RS232** - DB-9 input from computer
- 11 **AUDIO OUT 2** - Audio Mini Jack input from computer
- 12 **AUDIO IN** - Audio Mini Jack input from computer

# CAT5-9000HDR BACK PANEL LAYOUT



## CAT5•9000HDR BACK PANEL DESCRIPTIONS

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- 1 **POWER** - 5 VDC external power supply
- 2 **CAT5 USB/DDC1** - RJ-45 input extends USB and DDC1 signals with CAT-5 cable
- 3 **CAT5 Video 1** - RJ-45 input extends video input 1 with CAT-5 cable
- 4 **DVI OUT 1** - DVI output connects to the monitor 1 for local video
- 5 **USB Out** - Not Used
- 6 **KEYBOARD** - PS/2 output connects to the keyboard
- 7 **MOUSE** - PS/2 output connects to the mouse
- 8 **CAT-5 AUDIO** - RJ-45 input connects CAT-5 cable to receive extended audio in and audio 2 signals
- 9 **CAT-5 SERIAL PS/2** - RJ-45 input connects CAT-5 cable to receive extended RS-232 and PS/2 signals
- 10 **RS232** - DB-9 connector connects to RS-232 devices
- 11 **AUDIO IN** - Audio mini jack connects to microphone
- 12 **AUDIO OUT** - Audio mini jack connects to speakers

**RJ-45 Jack**



**White/Orange**

**Orange**

**White/Green**

**Blue**

**White/Blue**

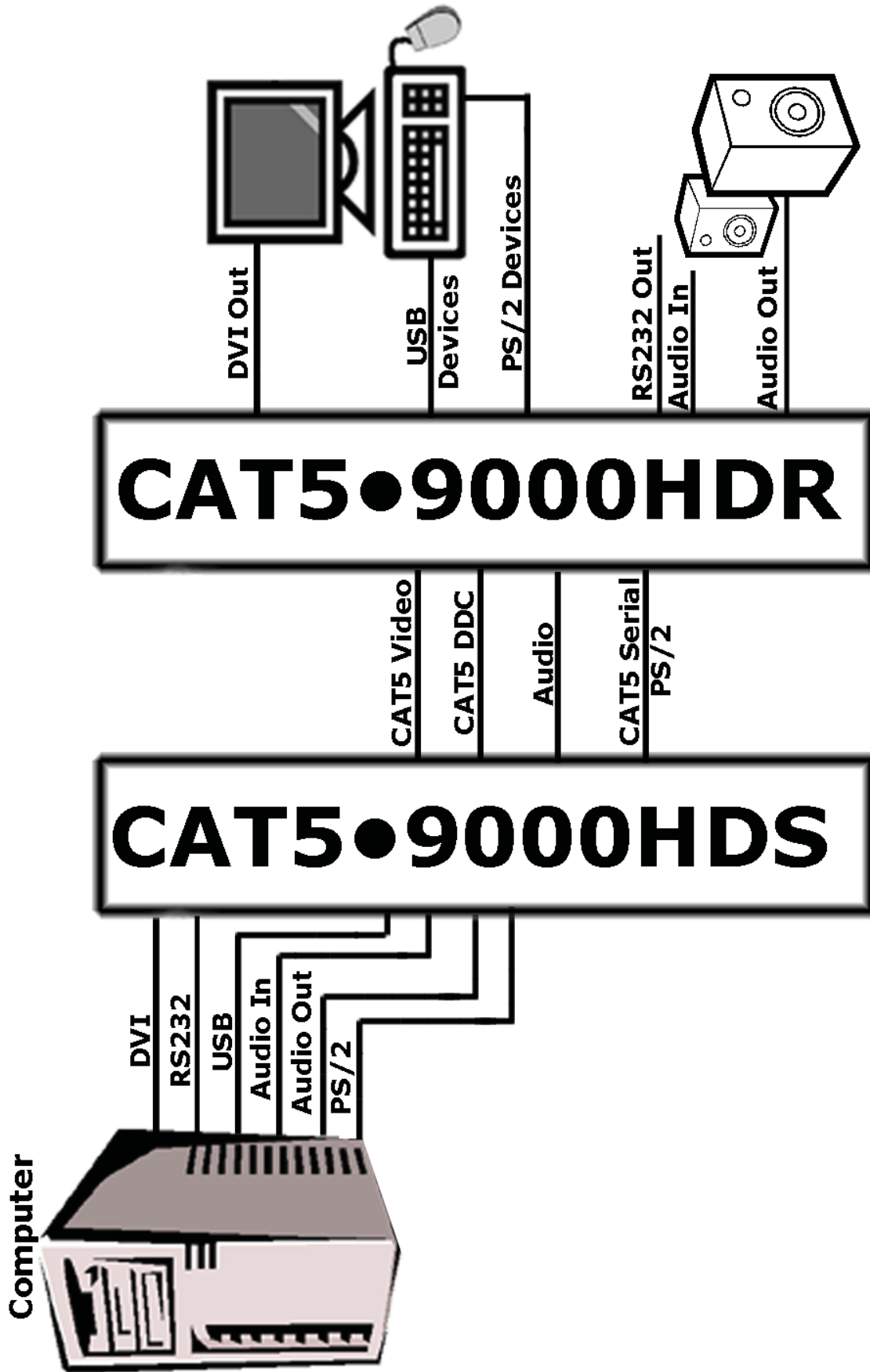
**Green**

**White/Brown**

**Brown**

**RJ-45 Jack**





## SPECIFICATIONS

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Video Amplifier Bandwidth .....	1.65 Gbps
Input Video Signal.....	1.2 volts p-p
Input DDC Signal .....	5 volts p-p (TTL)
Single Link Range .....	1920 x 1200 x 60hz
DVI Output Connector Type .....	DVI-I (29 pin) female (digital only)
HDMI Input Connector Type .....	HDMI type A 19 pin female
Link Connector .....	RJ-45
PS/2 Keyboard Connector .....	8 Pin MiniDin
PS/2 Mouse Connector .....	8 Pin MiniDin
RS232 Connector .....	DB-9
Power Consumption .....	15 Watts (max.)
Power Supply .....	5VDC (External)
Dimensions .....	8.4"W x 1.75"H x 4.4"D
Shipping Weight .....	7 lbs.

## WARRANTY

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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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