



Extend your USB

Optional Accessories



CAT-5 Cables

USB-200

Extends any USB device up to 330 feet with Built-in 2 Port HUB.

The ex-tend-it USB-200 extends any USB device up to 330 feet away from the source computer, eliminating the 17.5 feet distance limitation of USB. The USB-200 also includes a remote 2 port USB HUB that can power up to two USB devices at the same time using "Extreme USB" technology.

How It Works

The ex-tend-it USB-200 sender unit connects to the computer using the supplied USB cable. The receiver unit connects to the extended peripheral. One CAT-5e cable is used to link the sender to the receiver with HUB. The extended USB devices operate as if connected locally.

Features:

- Extends any USB 1.1 device up to 330 feet (100 meters) away from the computer
- CAT-5e cable used for extension
- Eliminates computer noise where you work
- Plug and play - installs in minutes
- For any computers with USB connection
- No power supply required at the receiving end
- Supports full 12 Mbs USB standard bandwidth

Specifications:

- USB device support: Full-speed 12 Mb/s Low-speed 1.5 Mb/s
- USB Input Connector: type B
- USB Output Connectors: type A
- Link Connector: RJ-45 shielded
- Power Supply: 5V DC
- Dimensions: 2.68" W x 1.5" H x 4.37" D
- Shipping Weight: 5 lbs.

Package Includes:

- USB-200S Send Unit
- USB-200R Receive Unit
- One 6ft A to B USB cable
- One 5v Power Supply



EXT-USB-200



USB•200
USER MANUAL

ASKING FOR ASSISTANCE

Technical Support:

Telephone (818) 772-9100
(800) 545-6900
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Technical Support Hours:

8:00 AM to 5:00 PM Monday thru Friday.

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Notice

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ExtremeUSB is a trademark of **Icron Inc.**
Macintosh is a trademark of Apple Computer Inc.

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INTRODUCTION

Thank you for purchasing the extend•it USB•200 Series. Incorporating *ExtremeUSB*, the new USB•200 model allows users the benefits of USB technology beyond the desktop, extending your computer keyboard, mouse, trackball, and any USB device up to 330 feet away from the location of your Macintosh or PC computer.

The USB•200 system consists of two units: the USB•200S Sender resides next to the host computer, and the USB•200R Receiver resides next to the extended USB devices.

The USB•200 signal controls the keyboard, mouse, trackball and other USB devices by buffering the keyboard/mouse signal through send and receive line drivers, and the signal is extended by using standard Category 5 (CAT-5) cabling.

You can connect additional USB•200 setup to the same computer, allowing you to access the computer from multiple locations up to 330 feet apart.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE USB•200 SYSTEM.

- * The USB•200 send and receive were designed to operate on USB type computers. **DO NOT** attempt to use this equipment with any other type computers.
- * Use the computer's USB port when using a local keyboard that is not extended with the USB•200 sender unit.
- * In order to operate properly, the USB•200 receiver unit must be connected, powered up, and the CAT-5 cable installed between the send and receive.
- * Only dedicated Category 5 UTP type cable (CAT-5) is recommended for this application (pin to pin).
- * The length of cable used to connect the USB•200S send unit to the USB•200R receiver unit **MUST NOT EXCEED** 330 feet.

Includes:

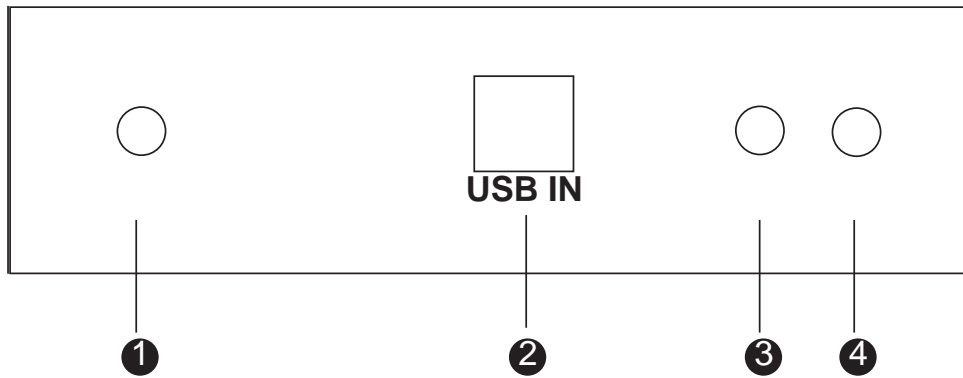
- (1) USB 200 Sender and Receiver
- (1) 6' USB Cable A-B
- (1) 5VDC Power Supply
- (1) Users Manual

USB•200 SERIES INSTALLATION

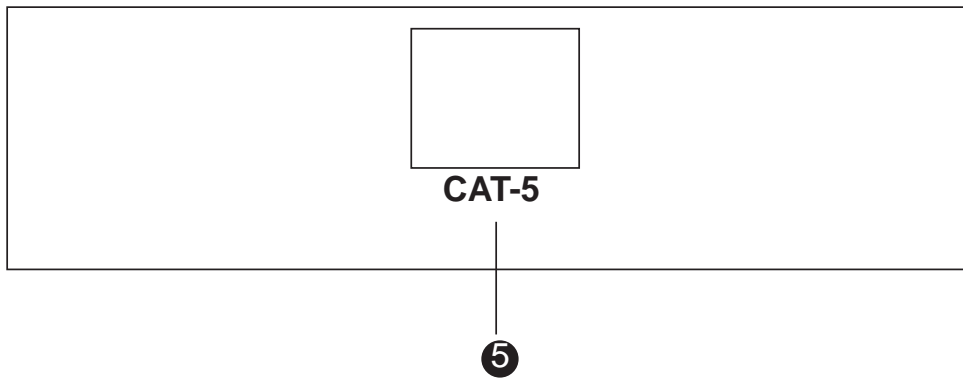
1. Place the USB•200R unit close to the USB devices at the remote end.
 2. Connect the USB devices to the USB•200R unit.
 3. Connect the power adapter to a suitable AC source wall outlet.
 4. Connect the power adapter to the USB•200R unit using the supplied cable.
 5. Place the USB•200S unit close to the host computer.
 6. Connect the USB•200S unit to the USB•200R unit using the desired length of CAT5 cable
 7. Connect the USB•200S unit to the host computer using the USB cable supplied with the unit .
- This connection should be made last.**

USB•200 PANELS LAYOUT

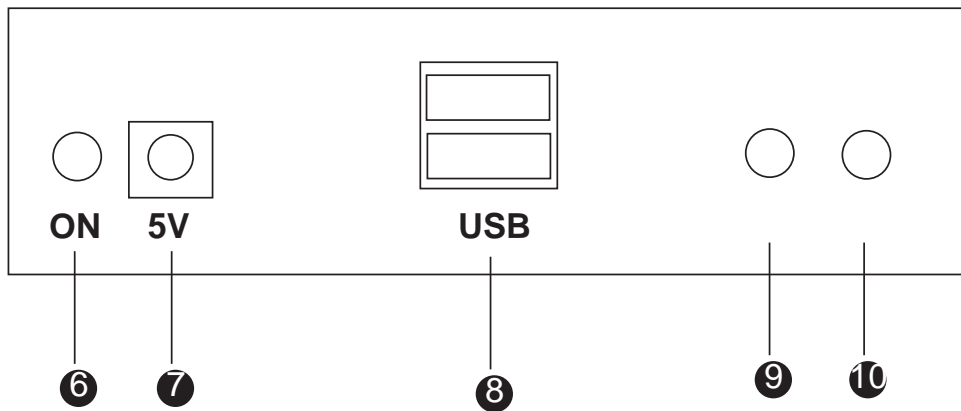
USB•200S



USB•200S&R



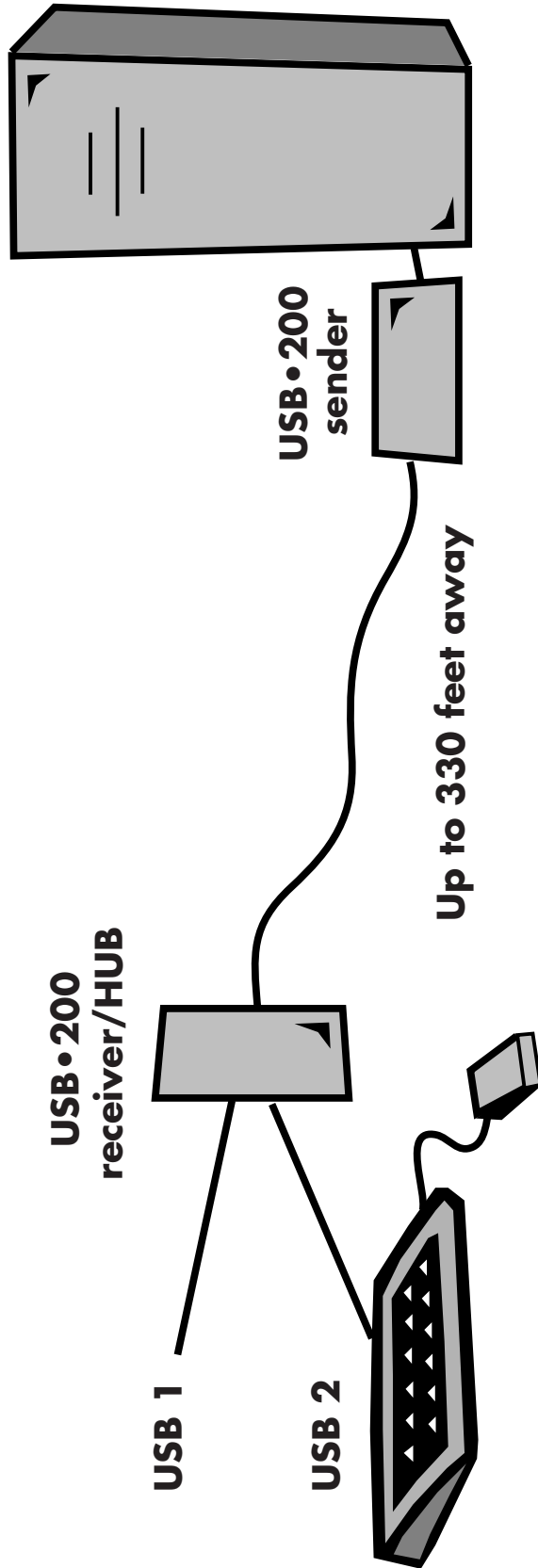
USB•200R



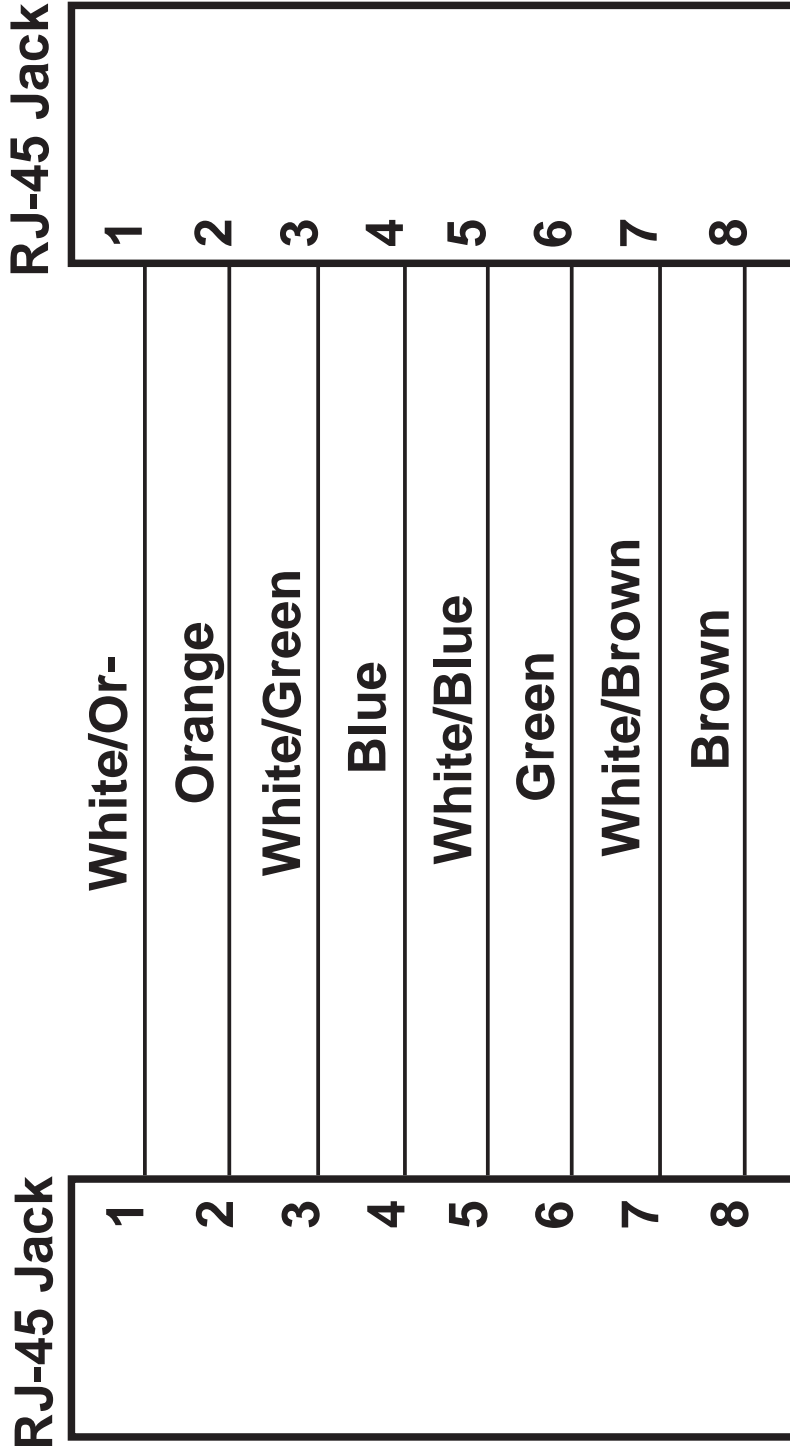
USB•200 FUNCTION DESCRIPTION

- ① **Power LED**
Indicates the unit is receiving power from the computer
- ② **USB In**
USB from computer
- ③ **Active**
Indicates if a USB device is active at the receiver
- ④ **Active**
Indicates if the USB port on the computer is active
- ⑤ **Link**
CAT-5 Modular Jack which connects to the USB•200S send and the USB•200R Receive units
- ⑥ **Power LED**
Indicates the unit is plugged in and powered up.
- ⑦ **DC In**
Power plug for 5VDC wallmount power supply.
- ⑧ **USB input A**
Two USB A type connector hub
- ⑨ **Active**
Indicates if a link between the USB•200S send and the USB•200R Receive units
- ⑩ **Active**
Indicates if a USB device is active at the receiver

WIRING DIAGRAM



LINK CABLE - WIRING DIAGRAM



CHECK LIST

1. On the USB•200S send unit, check that the power indicator is GREEN.
2. On the USB•200S send unit, check that the link indicator is GREEN.
3. On the USB•200R receiver unit, check that the power indicator is GREEN.
4. Once all LEDs are illuminated as suggested, the USB•200 is ready to accept a USB peripheral device at the USB port on the USB•200R receiver unit. Follow the installation instructions as if one were installing the device directly into a computer's USB port.
5. On the host computer, check that a general purpose hub is visible in the Control Panel. Once connected, a USB peripheral device causes its host computer to automatically enumerate it. This simply means that the computer must identify the new device, assign it an ID, and ensure that the required software drivers are available for loading when the device is to be used.
6. The USB•200 is not an end device. Consequently, it does not have a software component or driver to be loaded. Some peripheral devices that are to be attached to the USB•200 will have a USB Driver diskette or CD-ROM which will need to be inserted after initial connection to a USB port on the USB•200 model.

TROUBLESHOOTING HINTS

Power Indicator is not lit.

-- Make certain the power supply unit is properly connected to the USB•200R unit and the computers USB port is active and securely connected to the USB•200S

Link Indicators are Green.

-- Make certain that the host computer is operating and responding to commands. If required, reset the computer.

Problem Not Resolved

-- Disconnect power (DC Adaptor) plug from wall outlet that feeds power to the USB•200R unit.

-- Disconnect the USB•200S USB connection into the computer.

-- Reconnect power (DC Adaptor) from the USB•200R unit to the wall outlet.

-- Reconnect the USB•200S USB connection to the computer.

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 USB•200 features and specifications is subject to change without notice.