

USER MANUAL

CE-700

Read this guide thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the units and/or any devices that connect to them.

This package contains:

- 1 CE-700L USB Console Extender (Local Unit)
- 1 CE-700R USB Console Extender (Remote Unit)
- 1 CS Custom USB KVM Cable
- 2 Power Adapters
- 1 User Manual

If anything is damaged or missing, contact your dealer.

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Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver:
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected;
- Consult the dealer or an experienced radio/television technician for help.

OVERVIEW

The CE-700 is a USB (Universal Serial Bus) based KVM Extender that allows access to a computer system from a remote USB console (USB keyboard, monitor, and USB mouse).

Because it allows access to a computer system from a remote console, the CE-700 is perfect for use in any type of installation where you need to place the console where it is conveniently accessible, but you want the system equipment to reside in a safe location - away from the dust and dirt of the factory floor, or the harsh environmental influence of a construction site, for example.

The CE-700 is also useful for control and security purposes, where you can have the system unit in a secure area at the same time that you put the console in the most convenient location for user access.

The CE-700 improves on previous designs by: 1) using inexpensive Category 5 cable (the kind commonly used in Ethernet networks), instead of bulkier, more expensive, standard cables, for a much neater, more convenient, more reliable data transfer connection; 2) it is able to sense the distance to the system and automatically adjusts the gain accordingly; and 3) it features a custom ASIC to ensure the utmost in reliability and compatibility.

Setup is as easy as can be - simply connect the computer system box and local console to the Local CE-700 Module; run the Category 5 cable to the Remote CE-700 Module (up to 150 meters away); and plug the remote console into the Remote Module.

Note: You can control numerous remote systems from a single console by combining the CE-700 with a USB KVM switch.

FEATURES

- Category 5 Ethernet Cable to Connect the Local and Remote Units (Up to 150 m Apart)
- Auto Signal Compensaton (ASC)
- USB Keyboard and USB Mouse Ports
- Dual Console Operation Control Your System From Both the Local and Remote USB Keyboard, USB Mouse, and Monitor Consoles
- USB Overcurrent Detection and Prevention
- Push Button Selection of the Active Console
- High Resolution Video Up To 1280 x 1024
- Supports VGA, SVGA, and Multisync Monitors
- Local Monitor Supports DDC; DDC2; DDC2B
- Hot Pluggable

SYSTEM REQUIREMENTS

CONSOLES

- A VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any computer in the installation
- A USB Keyboard
- · A USB Mouse
- **Note:** 1. If you connect a DDC type monitor to the Local unit, the monitor that connects to the Remote unit must be able to support the highest video resolution that the DDC monitor can provide.
 - 2. You must use the same brand and model of mouse on both the local and remote units.

COMPUTERS

The following equipment must be installed on each computer that is to be connected to the system:

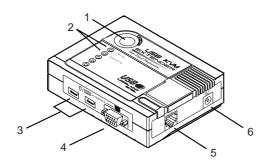
- · A VGA, SVGA or Multisync card
- USB Host Controller and Type A USB Port

CABLES

- For optimum signal integrity and to simplify the layout, we strongly recommend that you use the high quality CS Custom USB KVM Cable that is provided with this package.
- Category 5 cable is the minimum required to connect the local and remote CE-700 units. Using cable of a lesser standard will result in degrading the video signal. For the utmost performance, we strongly recommend Category 5 cable

THE LOCAL UNIT (CE-700L)

FRONT VIEW:



1. Operating Mode Selection Switch

Pressing this button toggles between the operating mode choices:

- Local only the local console can control the system(s);
- Auto both consoles can control the system(s).

2. LEDs

The Local Unit has two LEDs to indicate the operating status of the Local and Remote units (see p. 9, for details).

3. USB Keyboard and Mouse Ports

The local USB Keyboard and local USB mouse plug into these connectors.

4. Monitor Port

The local monitor plugs into this connector.

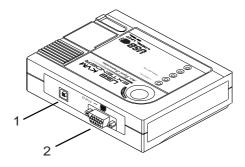
5. Remote I/O

The Category 5 cable that connects to the Remote Unit plugs into this connector.

6. Power Jack

The cable from the AC Power Adapter plugs into this jack.

REAR VIEW:



1. USB Port

The USB **B Connector** of the USB KVM Custom Cable supplied with this package plugs in here.

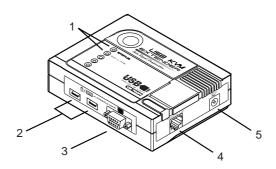
2. Monitor Port

The HDB-15 VGA Connector of the USB KVM Custom Cable supplied with this package plugs in here.

Note: If you are combining the CE-700 with a KVM switch, the extension cable connects back to the respective ports on the Console section of the switch.

THE REMOTE UNIT (CE-700R)

FRONT VIEW:



1. LEDs

The Remote Unit has two LEDs (Status and On Line) to indicate the operating status of the Local and Remote units (see p. 9, for details).

2. USB Keyboard and Mouse Port

The remote USB keyboard and USB mouse plug into these connectors.

3. Monitor Port

The remote monitor plugs into this connector.

4. Remote I/O

The Category 5 cable that connects back to the Local Unit plugs into this connector.

5. Power Jack

The cable from the AC Power Adapter plugs into this jack.

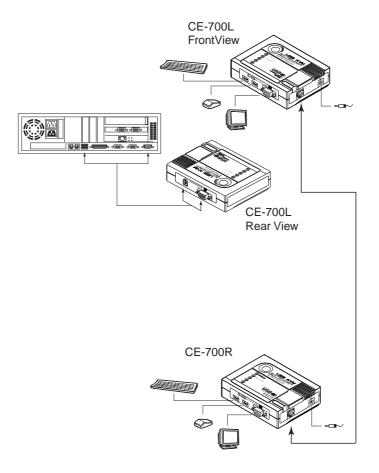
INSTALLATION

Setting up the KVM Extender System is simply a matter of plugging in the cables:

- Make sure that all the equipment to be connected up is powered Off.
- Plug the cables from the local console devices (mouse, keyboard, monitor), into their ports on the Console side of the Local Unit (CE-700L).
- Plug the appropriate connectors on the USB KVM extension cable supplied with this unit into the CPU side of the CE-700L. Each connector is marked with an appropriate icon to indicate which it is.

Note: The female monitor connector is the one that plugs into the CE-700L.

- 4. Plug the connectors on the other end of the cable into the appropriate ports on the computer system (or Console section of the USB KVM switch - if you are using one). Each connector is marked with an appropriate icon to indicate which it is.
- Plug either end of the Category 5 cable into the CE-700L's Remote I/O port.
- Plug one of the power adapters (supplied with this package) into an AC source; plug the adapter's power cable into the CE-700L's Power Jack
- 7. Plug the other end of the Category 5 cable into the I/O port of the Remote Unit (CE-700R).
- Plug the cables from the remote console devices (USB mouse, USB keyboard, monitor), into their ports on the Console side of the CE-700R.
- Plug the second power adapter (supplied with this package) into an AC source; plug the adapter's power cable into the CE-700R's Power Jack.



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OPERATION

The Local and Remote Units each have two LEDs to indicate their operating status, as shown in the tables, below:

CE-700L (LOCAL UNIT):

Operating Mode	LEDs	
	Local	Remote
Local Console Active	FLASH	OFF
Remote Console Active	OFF	FLASH
Error / Disconnect	ON	OFF
Not Ready	OFF	OFF
Neither Console Active	ON	ON

CE-700R (REMOTE UNIT):

Operating Mode	LEDs	
	Status	Online
Local Console Active	OFF	ON
Remote Console Active	FLASH	ON
Error / Disconnect	OFF	FLASH
Not Ready	OFF	OFF
Neither Console Active	ON	ON

APPENDIX

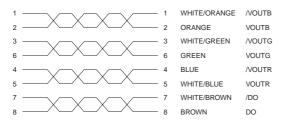
TROUBLESHOOTING

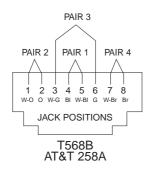
Symptom	Action	
No Video	Make sure that all cables are securely plugged into their sockets.	

TP PIN ASSIGNMENTS

Pin	Assignment	
1	V OUT B	
2	/V OUT B	
3	V OUT G	
4	V OUT R	
5	/V OUT R	
6	/V OUT G	
7	/DO	
8	DO	

TP WIRING DIAGRAMS





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SPECIFICATIONS

Fund	ction	CE-700L	CE-700R
Console	Keyboard	USB Type A	
Connectors	Mouse	USB Type A	
	Monitor	1 x 15 pin HDB Female	1 x 15 pin HDB Female
	Unit To Unit	8P8C Jack	
CPU Connectors	Keyboard / Mouse	USB Type B	N/A
	Video	1 x 15 pin HDB Male	N/A
LEDs		1 Local 1 Remote	1 Status 1 On Line
Function Keys		Local/Auto Select Button N/A	
Cable Lengtl	h	150m [500'] (max.)	
Video Resolu	ution	1280 x 1024; DDC; DDC2; DDC2B*	
Power Consumption		AC 9V, 6.8W	AC 9V, 7.4W
Housing		Plastic	
Weight		300 g	220 g
Dimensions	(L x W x H)	130 x 100 x 35 mm	

 $^{\ast}\,$ DDC, DDC2, and DDC2B support is for the Local monitor only.

LIMITED WARRANTY

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or update. For further inquiries, please contact your direct vendor.

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