

USER'S MANUAL

CE-22

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.

- 1 CE-220L Console Extender Local Unit
- 1 CE-220R Console Extender Remote Unit 1 Custom KVM Cable
- 1 User Manual

When unpacking, check to make sure that all the components are there, and that nothing was damaged in shipping. If you encounter a problem, contact vour dealer.

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The extension cable that connects to the computer's

The extension cable that connects to the computer's

The extension cable that connects to the computer's

Note: If you are combining the CE-220 with a KVM

switch, the extension cable connects back to the

respective ports on the Console section of the

VGA port plugs into this connector.

Keyboard port plugs into this connector.

Mouse port plugs into this connector.

Rear View

Monitor Port

2. Keyboard Port

3. Mouse Port

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Overview

Because the CE-220 Console Extender System allows access to a computer system from a remote console (keyboard, monitor, and mouse), it is perfect for factory and construction sites, or any type of installation where the console needs to be kept in a conveniently accessible location, but you want the system equipment to reside in a safe place - away from dust, dirt, and harsh environmental

The CE-220 Extender System 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 a location that offers convenient access.

The CE-220 Console Extender provides the ideal means to access the remote system box, since it improves on previous designs by using inexpensive Category 5 STP cable - the kind commonly used in Ethernet networks instead of bulkier, more expensive, standard cables.

The Remote Unit (CE-220R)

function in the following manner:

3. Keyboard Port

4. Monitor Port

5. Remote I/O

6. AC 9V Power Jack

On Line 1. Lights when the remote console is active.

Front View

Category 5 cabling makes for a much neater, more convenient, more reliable data transfer connection. Setup is as easy as can be - simply connect the PC system box and local console to the Local CE-220 Module; run the STP cable to the Remote CE-220 Module (up to 150 m 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-220 with KVM

Features

- Uses Inexpensive, Reliable, Category 5 STP Ethernet Cable to Connect the Local and Remote Units
- Dual Console Operation Control Your System From Both the Local and Remote PS/2 Keyboard, Mouse, and Monitor Consoles
- Push Button Selection of the Active Console
- High Resolution Video Up To 1024 x 768 @ 150 m (max.)
- Supports VGA, SVGA, and Multisync Monitors
- Local Monitor Supports DDC2

System Requirements

Consoles

A VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any PC in the installation

A PS/2 Style Keyboard

A PS/2 Style Mouse

Note: You must use the same brand and model of mouse on both the local and remote units.

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

A VGA, SVGA or Multisync card.

A 6-pin mini-DIN (PS/2 style) mouse port.

A 6-pin mini-DIN (PS/2 style) keyboard port.

Although it is possible to use standard extender cables to connect the computer to the CE-220L, for optimum signal integrity and tosimplify the layout, we strongly recommend that you use the high quality CS Custom Cable that is provided with this package.

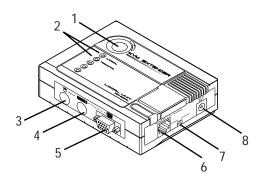
Category 5 STP cable is required to connect the local and remote CE-220 units.

Note: Using other types of cable (e.g. UTP cable) will result in degrading the video signal.

Introduction

The Local Unit (CE-220L)

Front View





Installation

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

- 1. Make sure that all the equipment to be connected up is 2. Plug the cables from the local console devices (mouse,
- keyboard, monitor), into their ports on the Console side of the CE-220L. 3. Plug the appropriate connectors on the KVM extension
- cable supplied with this unit into the CPU side of the Note: Each connector is marked with an appropriate
- icon to indicate which it is. 4. Plug the connectors on the other end of the cable into
- the appropriate ports on the PC system (or Console section of the KVM switch - if you are using one). Note: Each connector is marked with an appropriate
- icon to indicate which it is. 5. Plug one end of the Category 5 twisted pair cable into
- the Local Unit's Remote I/O port. 6. Slide the Range Switch to the Long position if the Remote Unit location is a long distance away (more than 30 m); slide the switch to the Short position if the
- Remote Unit location is a short distance away. 7. Plug one of the power adapters (supplied with this package) into an AC source; plug the adapter's power cable into the Local Unit's AC 9V Power Jack
- 8. Plug the other end of the Category 5 twisted pair cable into the Remote Unit's Remote I/O port.
- 9. Plug the cables from the remote console devices (mouse keyboard, monitor), into their ports on the Console side of the CE-220R.
- 10. Plug the second power adapter (supplied with this package) into an AC source; plug the adapter's power cable into the Remote Unit's AC 9V Power Jack
- 11. Power On all the equipment

Appendix

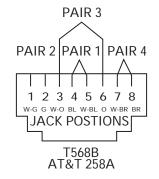
Troubleshooting

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

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

TP Pin Assignments

TP Wiring Diagram



Specifications

Function		I CE-220L I	CE-220R
Connectors	Keyboard	2 x 6 pin mini-DIN Female	6 pin mini-DIN Female
	Mouse	2 x 6 pin mini-DIN Female	6 pin mini-DIN Female
	Monitor	1 x 15 pin HDB Male 1 x 15 pin HDB Female	15 pin HDB Female
	Unit To Unit	8P8C Jack	
LEDs		1 Local	1 Power On
		1 Remote	1 On Line
Function Keys		Local/Auto Select Pushbutton	N/A
Cable Length		150m [500'] (max.)	
Video Resolution		1024 x 768	
Power Consumption		AC 9V 300mA (max.)	
Housing		Plastic	
Weight		300 g	220 g
Dimensions (L x W x H)		130 x 100 x 35 mm	100 x 80 x 35 mm

1. Operating Mode Selection Switch Pressing this button cycles you through the operating mode choices:

Local - only the local console can control the

system(s); Auto - both consoles can control the system(s)).

The Local Unit has two LEDs (Local and Remote) that function in the following manner:

LED	Operating Mode			
	Local	Auto		
Local	Lights to indicate that the local console is active (the Remote LED is out).	Lights when the local console is active (the Remote LED is out) Turns off when the remote console is active (the Remote LED turns on) Flashes on and off alternately with the Remote LED when neither console is active.		
Remote	The LED is Off	Lights when the remote console is active (the Local LED is out) Turns off when the local console is active (the Local LED turns on) Flashes on and off alternately with the Local LED when neither console is active.		

3. Mouse Port

The local PS/2 mouse plugs into this connector.

4. Keyboard Port

The local PS/2 keyboard plugs into this connector. 5. Monitor Port

The local monitor plugs into this connector. 6. Remote I/O

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

7. Range Switch

Slide the switch to the Long position if the Remote Unit is located a long distance away (greater than 30 m); slide the switch to the Short position if the Remote Unit is located a short distance away.

8. AC 9V Power Jack

The cable from the AC Power Adapter plugs into this



Limited Warranty

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

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

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.

Radio & TV Interference

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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

D装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づく クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き 起こすことがあります。この場合には使用者が適切な対策を講ずるように要求





The cable from the AC Power Adapter plugs into this

The Remote Unit has two LEDs (Power and On Line) that

The remote PS/2 mouse plugs into this connector.

The remote monitor plugs into this connector.

the Local Unit plugs into this connector.

The remote PS/2 keyboard plugs into this connector.

The Category 5 twisted pair cable that connects back to

Lights steadily to indicate that the connection to the Local Unit is ok.
Plashes when there is a problem with the connection to the Local Unit.

Is off when the local console is active.
Is off when there is a problem with the connection to the Local Unit.













