

A WORLD OF A/V SOLUTIONS





Installation and Safety Instructions

For Models without a Power Switch:

The socket outlet shall be installed near the equipment and shall be accessible.

For all Models:

No serviceable parts inside the unit. Refer service to a qualified technician.

For Models with Internal or External Fuses:

For continued protection against fire hazard, replace only with same type and rating of fuse.



Instructions d'installation et de sécurité

Pour les modèles sans interrupteur de courant:

La prise de courant d'alimentation sera installé près de l'équipement et sera accessible.

Pour tout les modèles:

Pas de composants à entretenir à l'intérieur. Confiez toute réparation à un technicien qualifié.

Pour les modèles équipés de fusibles internes ou externes:

Afin d'éviter tout danger d'incendie, ne remplacer qu'avec le même type et la même valeur de fusible.



Installations- und Sicherheitshinweise

Für Geräte ohne Netzschalter:

Die Netzsteckdose soll in der Nähe des Gerätes installiert und frei zugänglich sein.

Für alle Geräte:

Keine Wartung innerhalb des Gerätes notwendig. Reparaturen nur durch einen Fachmann!

Für Geräte mit interner oder externer Sicherung:

Für dauernden Schutz gegen Feuergefahr darf die Sicherung nur gegen eine andere gleichen Typs und gleicher Nennleistung ausgewechselt werden.



Instalacion E Instrucciones de Seguridad

Modelos Sin Interruptor:

La conexión debe ser instalada cerca del equipo y debe ser accesible.

Para Todos Los Modelos:

Dentro de la unidad, no hay partes para reparar. Llame un tecnico calificado.

Modelos con Fusibles Internos o Externos:

Para prevenir un incendio, reemplace solo con el mismo tipo de fusible.

CE COMPLIANCE

All products exported to Europe by Inline, Inc. after January 1, 1997 have been tested and found to comply with EU Council Directive 89/336/EEC. These devices conform to the following standards:

EN50081-1 (1991), EN55022 (1987) EN50082-1 (1992 and 1994), EN60950-92

Shielded interconnect cables must be employed with this equipment to ensure compliance with the pertinent Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC) standards governing this device.



FCC COMPLIANCE

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide against harmful interference when equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

Product Overview

DESCRIPTION

The **CIA116** is a high-performance computer interface for analog video and stereo audio signals. The unit is compatible with a variety of analog video signals including VGA, SVGA, XGA, SXGA, UXGA, Macintosh[®], SunTM, SGITM and other high-resolution workstations. The **CIA116** combines high-resolution computer interfacing and modular A/V connector plates into a versatile unit that fills several different installation applications. This highly integrated approach gives audiovisual professionals the ability to quickly design and install functional, customized computer interfacing and A/V connectivity solutions for a broad spectrum of applications. Like other INLINE interfaces, the **CIA116** performs the following functions:

- **Signal Splitting** allows the simultaneous connection and viewing of both the computer's local monitor and a second output device such as a data projector or a presentation monitor.
- Physical Interfacing Because computers employ many different types of video output connectors, it is sometimes difficult to directly connect them to data projection devices. The CIA116 simplifies interfacing tasks by acting as a universal adapter. Through the use of removable input cables, the CIA116 can be attached to different computers and will provide a video output signal on five BNC connectors. The output signal may be set to RGBHV (default), RGBS or RGsB formats.

KEY CONCEPT



The **CIA116** is not a scan converter. The data projector, monitor or other output device must be compatible with the horizontal scan rate output by the computer video card.

PRODUCT FEATURES

- 15-Pin HD VGA Standard Connectors The CIA116 connects directly to PC, Mac and SGI graphics ports and local monitors using high-resolution coaxial VGA extension / adapter cables.
- Three unique installation applications:
 - 1) The **CIA116** mounts neatly under a conference or boardroom table, computer workstation or podium.
 - 2) The unit fits snugly into a 1U rack space.
 - 3) The interface can be flush mounted in a table surface exposing only the faceplate.
- **Ultra High-Resolution Amplification -** The **CIA116** provides superb performance with analog video signals at any resolution.
- **Modular A/V Connector Plates** The front panel accepts up to four (4) A/V connector modules, available with a variety of popular connectors.
- **Audio Buffering** The **CIA116** accepts unbalanced stereo audio from a computer sound card and can be set to output a balanced or unbalanced signal.
- **Selectable Output Sync Format** The unit can be set for RGBHV (default), RGBS or RGsB output sync as required by the data display device and signal distribution system.
- **Buffered Local Monitor Output** ensures the highest quality display on a local monitor.
- One-Button Monitor Emulation makes it easy to use the interface without a local monitor.
- New Soft-Touch Rocker Button for Horizontal Position Control allows precise centering of the image within the data display area.
- **Sharpness Control** provides effective image enhancement for high-resolution video signals by increasing clarity and image detail, and compensates for signal loss during long cable runs.

- **Dual Front Panel A/C Power Outlets** provide a convenient place to plug in a laptop computer, CD player or other portable A/V device.
- Available in Six Different Models to Match Decor and Regional Power Outlet Style:

CIA116-1 - Interface with (2) Edison A/C Convenience Outlets - Black Finish.

CIA116-2 - Interface with (2) Edison A/C Convenience Outlets - White Finish.

CIA116-3 - Interface with (2) Europlug A/C Convenience Outlets - Black Finish.

CIA116-4 - Interface with (2) Europlug A/C Convenience Outlets - White Finish.

CIA116-5 - Interface with (2) IEC A/C Convenience Outlets - Black Finish.

CIA116-6 - Interface with (2) IEC A/C Convenience Outlets - White Finish.

400 MHz Bandwidth

The **CIA116** simplifies the design and installation process since a single unit fills the function of both video interface and A/V connector plate. Available A/V modules are listed on pages 13-14.

Compatibility

INPUT

The **CIA116** will accept high-resolution video signals from virtually any computer that outputs an analog video signal. The unit will work with signals at virtually any resolution and refresh rate. Compatible computer video signals include VGA, SVGA, XGA, MAC, SUN, SGI and other high-resolution computers outputting an analog video signal. Input signal compatibility parameters are listed below.

Video Signal:

Signal format:

Horizontal Frequency Range:

Vertical Refresh Rates:

Analog RGB Video

RGBHV, RGBS, RGsB*

30 KHz to 130 KHz

30 Hz to 120 Hz



* The CIA116 will operate with RGsB input signals. However, the unit will not strip sync off of the green. RGsB input signals are always output as RGsB (they cannot be output as RGBS or RGBHV). Also, the horizontal position control will not operate when used with RGsB input signals.

OUTPUT

The output signal of the **CIA116** is analog RGB video with TTL sync on 3, 4 or 5 female BNC connectors. The output format can be set to RGBHV, RGBS or RGsB using dipswitches. This output signal is compatible with high-resolution data grade monitors and data / graphics projectors.



VGA, MAC, SUN, SGI and other high-resolution workstations operate in several video modes encompassing a wide range of resolutions and scan rates. Many of the video signals from the newest models can run as high as 70 KHz or more, with the newest VGA cards offering an output resolution of 1600 x 1200 (some can even go as high as 1800 x 1440). The data projector or monitor connected to the interface output must be compatible with the horizontal scan rate and vertical refresh rate of the computer's video signal. Please check the documentation for both the computer graphics card and the data display device to ensure compatibility.

Installation

KEY CONCEPT



CAUTION: Installation of the **CIA116** must only be carried out by qualified technicians.

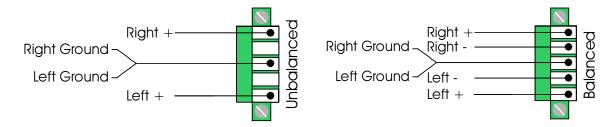
This section offers step-by-step instructions for installing the **CIA116.** An Application Diagram is provided on page 6, and Front and Rear Panel Connector and Control Diagrams are on page 7. *Note: Read the instructions carefully before initiating the installation procedure. Before you begin, make sure that there is no power connected to the system, and that all the power buttons are off.*

- 1.) Set the dipswitches as appropriate for your installation (see page 9 for more details). The CIA116 factory default output format is RGBHV. If your display device, routing system, or cabling require a different format, use the dipswitches to change the output signal to RGBS or RGsB as necessary. For best results with high-resolution data projectors / presentation monitors, refer to Optimal Settings for LCD / DMD / D-ILA / Plasma Displays on page 9.
- 2.) For mounting the CIA116 under a conference or boardroom table, computer workshop, or podium use #6-1/2" wood screws to mount the interface at the desired location (the IN9252 integral mounting brackets and wood screws are included).
- 3.) **For rack-mount installations -** make sure that the **CIA116** is securely installed in a standard 19" equipment rack using the **IN9254 / IN9255** rack ears (optional).

 Note: The **IN9254** rack ears can accommodate four additional A/V connector modules.
- 4) **For Flush-Mount Applications -** install the interface into a table, podium or presentation furniture using the optional **IN9253** flush-mount brackets.

 Note: A Dimensions Diagram is provided on page 15.
- 5) Terminate any audio, video and control cables to the backside of the A/V connector modules as required by your installation (a complete list of available modules is provided on pages 13 and 14). The **CIA116** can also be installed with one or two **IN9367D** double size blank plates (included).
- 6) Using the **IN9334** 3/32" Allen Wrench (included), attach the modular connector plate(s) to the front panel of the **CIA116**, making sure that none of the cables are pinched or damaged.
- 7) Connect the video coax cable to the (5) BNC female connectors using three, four, or five high-resolution BNC cables, or a multi-conductor RGBHV, RGBS or RGB "snake." The IN7000 / IN7200 / IN7300 and IN7400P Series high-resolution cables are well suited for this purpose. Take care while making connections to insure that the red output is connected to the red input, green output to the green input, etc.
- 8) Connect the audio output cable to the appropriate pins on the **CIA116** 5-pin captive screw connector. Make sure that the stereo audio output is connected appropriately for a balanced or unbalanced signal as required by the installation (see the diagram on the following page).

Unbalanced Output - connect to the Left, Right and Ground connectors. **Balanced Output** - connect to Left +, Left-, Right+, Right- and Ground connectors.



- 9.) Apply power to the **CIA116** using the **IN9230** power cord (included). The power LED on the front of the unit will illuminate.
- 10.) Turn the computer and computer monitor off. Disconnect the computer monitor from the video output port on the computer.
- 11.) Connect the computer graphics card to the **CIA116** 15-pin video input port.
 - PC / MAC / SGI Computers with 15-pin HD Video Ports can be connected via IN8000M-1 / IN8200M-1 Series high-resolution coaxial VGA cables.
 - Older Macintosh (15-pin D) / SUN (13W3) / Workstations (4 or 5 BNC) can be connected using the appropriate input / output cables listed in the chart on the following page.
- 12).Connect the computer sound card output (if applicable) to the **CIA116** 3.5mm female stereo audio input connector using an **IN8200-1 Series** cable [15-pin HD with 3.5mm (M-M) mini DIN], or an **IN9106** audio patch cable (3.5mm stereo mini male to 3.5mm stereo mini male). For computers with RCA connectors, use the **IN9107** audio adapter cable [(1) 3.5mm stereo mini male to (2) RCA male].
- 13.)Connect the local computer monitor (if applicable) to the local monitor output port of the **CIA116**. Monitors with 15-pin VGA connectors will attach directly to the interface. For other types of monitors, refer to the table on the next page.

KEY CONCEPT



If a local monitor is required, disengage the monitor emulation feature by pressing the Monitor Emulation Button. See page 9 for more details.

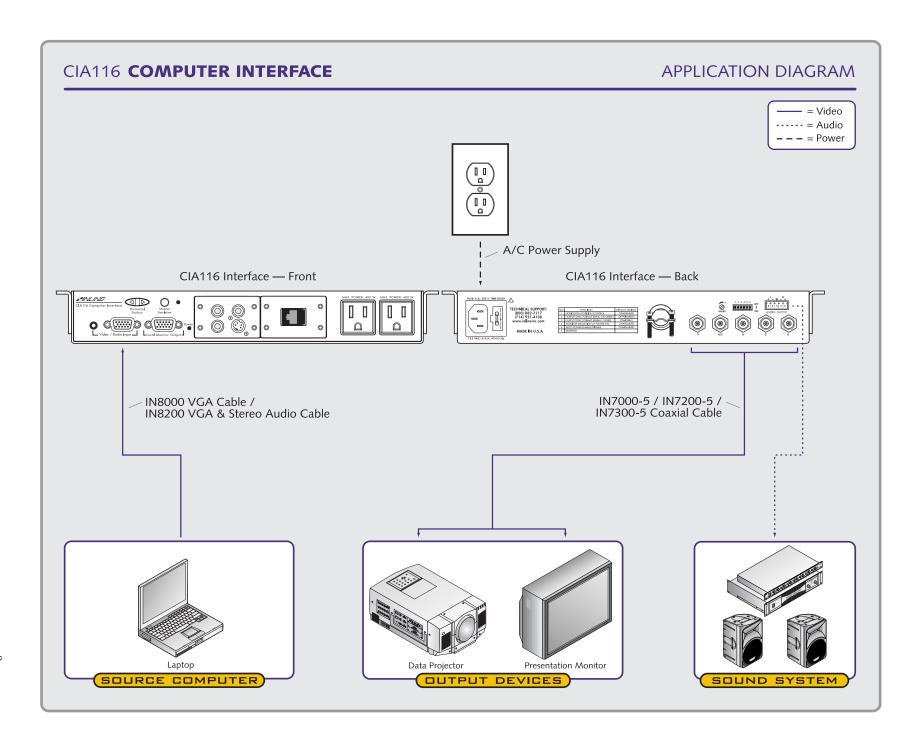
14.) Turn the computer and computer monitor on. If necessary, adjust the sharpness and horizontal position controls (see page 8 for more details).

ADAPTER / EXTENSION CABLES FOR INPUT AND LOCAL MONITOR OUTPUT

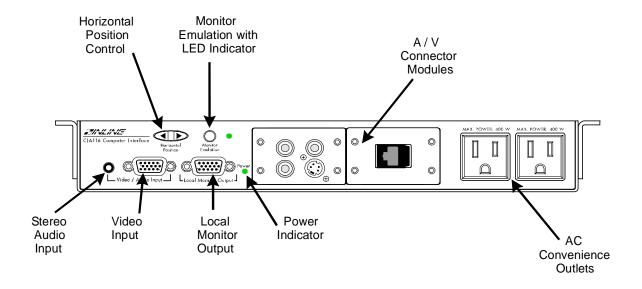
The **CIA116** has 15-pin HD VGA-type input and local monitor output connector ports. The following cables / adapters are available:

Computer	3'	6'	12'	25'	35' +	
VGA: 15-Pin HD						
Input Cable (M-M)	IN8003M-1	IN8006M-1	IN8012M-1	IN8025M-1	IN80xxM-1	
Output Cable (M-F)		IN8006-1	IN8012-1	IN8025-1	IN80xx-1	
VGA with Stereo Audio	VGA with Stereo Audio: 15-Pin HD with 3.5mm (M-M) mini DIN					
Input Cable (M-M)	IN8203M-1	IN8206M-1	IN8212M-1	IN8225M-1	IN82xxM-1	
Output Cable (M-F)	IN8203-1	IN8206-1	IN8212-1	IN8225-1	IN82xx-1	
MAC with 15-Pin D:						
Input Cable (M-M)		IN9140M		IN9144M		
Output Cable (M-F)	IN9141			IN9145		
MAC G3, G4 and Powe	erBook with 15	5-Pin HD*:				
Input Cable (M-M)		IN8006M-1	IN8012M-1	IN8025M-1	IN80xxM-1	
Output Cable (M-F)		IN8006-1	IN8012-1	IN8025-1	IN80xx-1	
SUN: 13W3 (may also l	SUN: 13W3 (may also be used with SGI with RGsB output)					
Input Cable (M-M)		IN9142M		IN9146M		
Output Cable (M-F)	IN9143			IN9147		
Workstation: 5 BNC / RGBHV						
Input Cable (M-M)		IN9045-L6	IN9045-L12	IN9045-L25	IN9045-Lxx	
Output Cable (M-M)		IN9045-L6	IN9045-L12	IN9045-L25	IN9045-Lxx	
Workstation: 4 BNC / RGBS						
Input Cable (M-F)		IN9100				

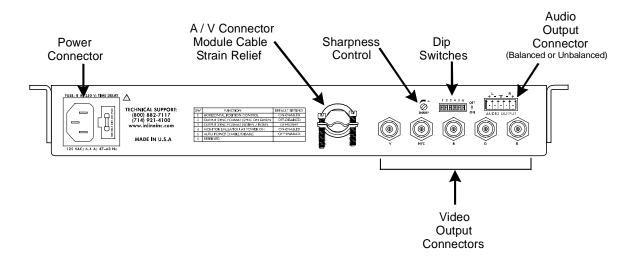
^{*}Newer Mac G3 models (with translucent cases) have 15-Pin HD connectors (pins arranged in 3 rows). Older G3 models (with solid white enclosures) incorporate 15-Pin D connectors (pins arranged in 2 rows).



CIA116 FRONT PANEL CONNECTORS AND CONTROLS



CIA116 REAR CONNECTORS AND CONTROLS



HORIZONTAL POSITION CONTROL

The location of the horizontal position control is shown in the Front Panel Connectors and Controls Diagram on the previous page. Press and release the rocker button to shift the image by one step to the left or right. Press and hold the button to shift the image continuously.

Note: The horizontal position control has no effect on the local computer monitor.

If the horizontal position adjustment is set to an extreme position on either the display device or the **CIA116**, the output image may appear dark and / or the colors may be displayed improperly. To position the video image and achieve optimum picture quality:

- 1. Set the display device's horizontal position control to the center of its adjustment range.
- 2. Adjust the horizontal position control on the **CIA116** until the picture is centered properly on the display device.

Note: The horizontal position control does not work with RGsB input signals.

SHARPNESS CONTROL

The **CIA116** sharpness / peaking circuitry provides variable high frequency equalization that can compensate for signal losses due to long output cable runs. Careful optimization of the sharpness control at the time of installation will result in a greatly enhanced image with increased clarity and edge detail. The amount of high frequency boost required for each display system will vary depending on the length and bandwidth performance of the video output cables, and, to a lesser extent, the resolution and frequency of the input signal. When using short output cables, the sharpness control should usually be placed at the minimum setting to avoid over-peaking.

The sharpness control is located on the back of the interface (see diagram on page 7). Using the **IN9339** Adjustment Tool (provided), turn the sharpness control clockwise to increase the sharpness setting, and counterclockwise to decrease the sharpness setting. The factory default setting is minimum (no sharpness / peaking enhancement). The following guidelines are useful in selecting the optimal sharpness / peaking setting:

If the image is soft and / or fine details in the picture lack clarity:

The sharpness is probably set too low. Increase the sharpness control setting.

If a white, ghosted image appears to the right side of the lines / characters:

The sharpness is probably set too high (over-peaked). Decrease the sharpness control setting.

DIPSWITCH SETTINGS

Most installations will not require any changes to the dipswitch settings. The factory default and specialized dipswitch settings are indicated below.

Factory Default Settings:

Dipswitches ON:1, 3 & 4Horizontal Position Control:EnabledSignal Format:RGBHVMonitor Emulation at Power Up:Enabled

The following table lists the functions of the 6 dipswitches:

DIPSWITCH	FUNCTION	SETTING
1	Harizantal Dagition Control	On = Enabled*
	Horizontal Position Control	Off = Disabled
2	Output Sync Format	On = RGsB
2	(sync on green)	Off = RGBS / RGBHV*
2	Output Sync Format	On = RGBHV*
3	(RGBS or RGBHV)	Off = RGBS
4	Monitor Emulation	On = Enabled*
	at power up	Off = Disabled
5	Reserved	
6	Reserved	

^{*} Factory Default Setting

MONITOR EMULATION

The factory default setting for the **CIA116** is Monitor Emulation Enabled. **If the application requires a local monitor,** make sure that the front panel Monitor Emulation LED is OFF (press the MONITOR EMULATION Button to toggle between enabled / disabled). **If no local monitor is necessary,** make sure the Monitor Emulation LED is ON.

OPTIMAL SETTINGS FOR LCD / DMD / D-ILA / PLASMA DISPLAYS

Output Sync Format - CIA100 Series Interfaces feature advanced sync processing circuitry that offers superb compatibility with a wide range of display devices. The CIA116 has been designed (and extensively tested) to provide excellent operation when set for RGBHV, RGBS and RGsB output signal formats. However, some display devices most readily identify and display VGA-type signals when they are in the RGBHV signal format. For this reason, users may achieve optimal compatibility and more consistent results when the interface is set to the factory default output sync format of RGBHV (see **Dipswitch Settings** above).

Horizontal Position Control - The CIA116 horizontal position control utilizes a new circuit design that provides excellent image quality and greatly enhanced compatibility with a variety of data display technologies. However, in rare cases, instability in parts of the displayed image may still occur (depending on the design of the display device's sync circuitry). Adjusting the data display's fine phase or auto phase adjustment will usually alleviate the problem. If problems persist, users may wish to disable the CIA116 horizontal position control (see Dipswitch Settings above).

Specifications

CIA116 Table Mount / Rack Mount Computer Interface			
Input			
Connector Type	(1) 15-pin HD female - standard VGA pin-outs		
RGB Video Signals	Analog, 1.5 Vp-p max.		
Input Impedance	75 ohm		
Sync Signals	TTL compatible		
Horizontal Scan Rate	30 KHz - 130 KHz		
Vertical Sync Range	30 Hz - 120 Hz		
Stereo Audio Connector	(1) 3.5mm stereo mini female for unbalanced stereo audio		
Output			
Local Monitor (Buffered)	15-pin HD female - standard VGA pin-outs		
Main Output	(5) female BNC connectors		
Output Signal Formats	RGBHV, RGBS or RGsB		
RGB Signals	Analog Video, 75 ohm impedance		
Video Bandwidth	400 MHz @ -3 dB with 0.7 Vp-p input signal		
Rise and Fall Times	1.0 nano seconds		
Gain	1.0 +/- 5% (unity)		
Main Audio Output	5-pin Phoenix connector for balanced or unbalanced audio		
Walli Addio Odiput	Impedance: 50 ohm		
Dimensions			
Size (without brackets)	1.75" H x 11.75" W x 4.75" D / 4.5cm x 29.2cm x 12.1cm		
Product Weight	2 lbs. / 0.9 kg.		
Shipping Weight	4 lbs. / 2 kg.		
Power			
Dower Supply	CIA116-1 / -2: 125 VAC; 6.4 A; 47-63Hz		
Power Supply	CIA116-3 / -4 / -5 / -6: 250 VAC; 3.2 A; 47-63Hz		
Regulatory Compliance			
Safety	UL 1950, CAN/CSA-22.2 No. 950 3 rd Ed.		
EMI	FCC class A; CE: EN50022 (1987), EN50081-1 (1991),		
Livii	EN50082-1 (1992 & 1994), EN60950-92		

Parts Included

- (1) CIA116 High-Resolution Video Interface
- (1) IN9230 IEC Power Cable (U.S. only)
- (1) **IN9334** 3/32" Allen Wrench
- (1) IN9339 Adjustment Tool with Technician's Blade
- (1) IN91252B / IN9252W Mounting Brackets
- (2) IN9367D Double Size Blank Plates
- (4) #6-1/2" Wood Screws
- (1) Operation Manual

Required Accessories (Ordered Separately)

Input and Local Monitor Adapter and Extension Cables:

VGA: IN8000 Series 15-pin HD male to 15-pin HD female, various lengths from 3' to 100'

For Other Computers: Refer to the table on page 5

Optional Accessories

Audio Input Cables:

IN9106: 3.5mm stereo mini male to 3.5mm stereo mini male, 6' long

IN9107: (1) 3.5mm stereo mini male to (2) RCA male, 6' long

Installation Hardware:

IN9253: Flush-mount brackets - For Mounting CIA116 through Hole in Table Top

IN9254: Rack Ears - Rack Mounts Unit in 1 U Rack Space, Rack Ear Holds Up to

4 Additional Single-Space A/V Connector Modules

IN9255: Rack Ears - Rack Mounts Unit in 1 U Rack Space

RGB Installation Cables				
Coaxial Cables	3-Conductor	4-Conductor	5-Conductor	
Standard Resolution		IN7000-4	IN7000-5	
Standard Resolution, Plenum		IN7000P-4	IN7000P-5	
Super High Resolution	IN7300-3	IN7300-4	IN7300-5	
Super High Resolution, Plenum			IN7400P-5	
Ultra High Resolution	IN7200-3	IN7200-5	IN7200-6	

All cable grades are available in lengths from 3' to 250' pre-terminated with high quality BNC connectors or as bulk cable.

Troubleshooting

Problem: The display device connected to the CIA116 output has a bad / scrambled image.

- Solution 1: Verify that the correct input cable is being used (see the table on page 5).
- Solution 2: The display device connected to the output of the interface may not be compatible with the computer output. PC, MAC, SUN and other high-resolution workstations have new and ultra high-resolution modes such as 1600 x 1200 and 1800 x 1440, and can output a video signal with a horizontal scan rate of over 100 KHz! Many data monitors and data projectors are not compatible with these resolutions and frequencies.
- Solution 3: Check the dipswitch settings to make sure the unit is putting out a sync format that the display device can use. For most applications, the default dipswitch settings will work best (see page 9). For LCD / DMD / D-ILA / Plasma Display devices, you may have to disable the horizontal position control.
- **Solution 4:** The RGBS or RGBHV cable may have a bad sync line. Try running the sync through another cable.

Problem: The power LED is on but there is no image on the display device.

• **Solution:** Check the RGBHV cable connections at the interface output and at the display device input to make sure that the vertical and horizontal sync wires are not reversed.

Problem: The power switch is turned on, but the front panel power LED is dark.

- **Solution 1:** Make sure that the **IN9230** IEC power cable is securely plugged into the unit and the A/C source.
- **Solution 2:** Make sure the A/C source is live.
- **Solution 3:** The **CIA116** contains a 0.8A / 250V time delay fuse. To change the fuse, remove the power cable, then slide out the fuse holder (located on the rear panel between the power switch and the IEC cable receptacle) using the **IN9339** adjustment tool

Problem: The output image is very dark.

• **Solution:** The **CIA116** horizontal position control may be set off to an extreme setting or may be interacting poorly with the horizontal position control on the display device. Follow the horizontal position adjustment procedure on page 8.

Problem: The local monitor looks fine but the image on the Data Projector / Data Display is wavy or has vertical bars in the picture.

- **Solution 1:** Set the interface to RGBHV output.
- **Solution 2:** Disable the horizontal position control.
- Solution 3: LCD / DMD displays often have an adjustment called Phase Adjust or Fine Phase Control. This control should be adjusted to provide the best image.

Problem: The output image is missing a color.

• **Solution:** Possibly the RGBS or RGBHV cable is bad. Try switching connections on the output to verify that the bad color's cable is OK (*Example:* If there is no red, try running the green output through the red cable and see if the green is displayed or not).

Problem: The output image is too green.

• **Solution:** The dipswitch settings may be set for sync on green output and the display device doesn't operate well with that format. Try changing the dipswitches to output an RGBS or RGBHV signal.

Problem: The horizontal position control is not working.

- Solution 1: Check the dipswitch settings to see if the horizontal position control has been disabled.
- Solution 2: The input signal may be RGsB (sync on green). The horizontal position control does not work with RGsB input signals.

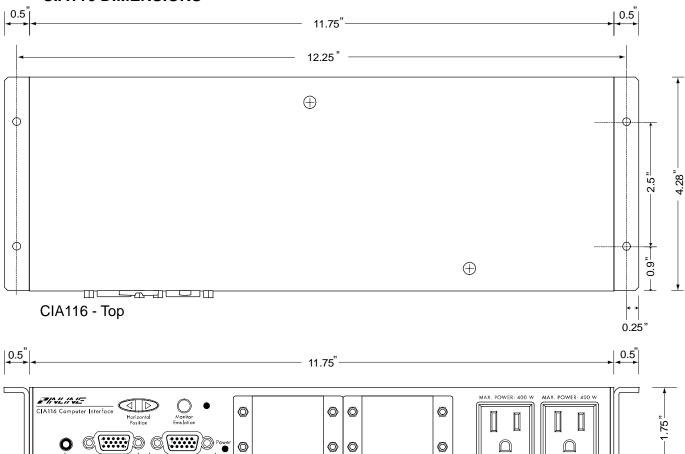
If problems persist, call INLINE Technical Services at (714) 921-4100 for further assistance.

A/V CONNECTOR MODULES

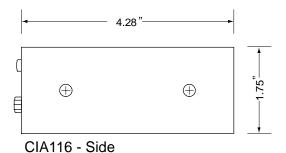
Connector Module Black / White	Description	Type	Size
Video Modules			
IN9351B / IN9351W	(2) BNC Female	Barrel	Single
IN9352B / IN9352W	(1) 4-Pin Mini DIN Female (S-Video)	Installation	Single
IN9357B / IN9357W	(2) F-Connector Female	Barrel	Single
INIO262D / INIO262W/	(1) 4-Pin Mini DIN Female (S-Video)	Barrel	Cimala
IN9363B / IN9363W	(1) BNC Female Barrel	Barrei	Single
IN9381B / IN9381W	(1) BNC Female	Barrel	Single
IN9382B / IN9382W	(1) F-Connector Female	Barrel	Single
IN9383B / IN9383W	(1) RCA Female - White	Barrel	Single
IN9390B / IN9390W	4-Pin Mini DIN Female (S-Video)	Barrel	Single
IN9468B / IN9468W	(2) 4-Pin Mini DIN Female Barrel (S-Video)	Barrel	Single
Audio Modules			
IN9353B / IN9353W	(2) RCA Female - Red / White	Installation	Single
IN9354B / IN9354W	(2) ¼" Stereo Phono Female	Installation	Single
IN9355B / IN9355W	(2) 3.5mm Mini Stereo Female	Installation	Single
117333B / 117333 W	(1) Contact Closure Switch (Single Pole) with	mstanation	bligic
IN9360B / IN9360W	Internal LED	Installation	Single
117300B / 117300W	(1) 3.5mm Stereo Mini Female	mstanation	Singic
IN9365DB / IN9365DW	(1) XLR 3-Pin Female (Neutrik)	Installation	Double
IN9373B / IN9373W	(2) RCA Female - Red / White	Barrel	Single
IN9384B / IN9384W	(1) ¼" Stereo Phono Female	Installation	Single
IN9385B / IN9385W	(1) 3.5mm Mini Stereo Female	Installation	Single
	(1) XLR 3-Pin Female (Switchcraft)		
IN9395DB / IN9395DW	(1) XLR 3-Pin Male (Cannon)	Installation	Double
IN9398DB / IN9398DW		Installation	Double
IN9450B / IN9450W	(1) Mini XLR 3-Pin Male (Switchcraft)	Installation Installation	Single
IN9451B / IN9451W	(2) Mini XLR 3-Pin Male (Switchcraft)		Single
IN9456B / IN9456W	(2) RCA Female - Red / White	Quick Connect	Single
IN9457B / IN9457W	(2) 3.5mm Mini Stereo Female	Quick Connect	Single
IN9458B / IN9458W	(1) 3.5mm Mini Stereo Female	Quick Connect	Single
IN9459B / IN9459W	(1) ¼" Stereo Phono Female	Quick Connect	Single
	(1) Contact Closure Switch (Single Pole) with		
IN9460B / IN9460W	External LED	Quick Connect	Single
	(1) 3.5mm Mini Stereo Female		
IN9463B / IN9463W	(1) Mini XLR 3-Pin Male (Switchcraft)	Quick Connect	Single
IN9473DB / IN9473DW	(1) 4-Pole Speakon Male (Neutrik)	Installation	Double
Audio / Video Modules			
	A/V Super Module:		
IN9372DB / IN9372DW	(2) RCA Female - Audio: Red / White	Installation	Double
11,737255711,7372577	(1) RCA Female - Video: Yellow	mstariation	Bodole
	(1) 4-Pin Mini DIN Female - S-Video		
	A/V Super Module:		
IN9376DB / IN9376DW	(2) RCA Female - Audio: Red / White	Barrel	Double
11,50,022,11,50,02,1	(1) RCA Female - Video: Yellow	Z mirer	
	(1) 4-Pin Mini DIN Female - S-Video		
IN9377DB / IN9377DW	(2) RCA Female - Audio: Red / White	Installation	Double
11,377,227 11,737,72 11	(1) RCA Female - Video: Yellow		Dodoic
IN9386B / IN9386W	(1) BNC Male	BNC: Barrel	Single
11,3000 / 11,30011	(2) 3.5mm Stereo Mini Female	3.5mm Mini: Installation	Single
IN9387B / IN9387W	(1) 4-Pin Mini DIN Female - S-Video	Installation	Single
11,3072711	(1) 3.5mm Stereo Mini Female	mstariation	Single
IN9388B / IN9388W	(1) RCA Female - Video: Yellow	Installation	Single
117300B / 117300 11	(1) 3.5mm Stereo Mini Female	mstanation	Single
	A/V Super Module:		
IN9461DB / IN9461DW	(2) RCA Female - Audio: Red / White	Ouick Connect	Double
117401DD / 117401DW	(1) RCA Female - Video: Yellow	Quiek Connect	Dodoic
	(1) 4-Pin Mini DIN Female - S-Video		
IN9462DB / IN9462DW	(2) RCA Female - Audio: Red / White	Quick Connect	Double
117702DD / 1177402DW	(1) RCA Female - Video: Yellow	Quick Conflect	Double
IN9469B / IN9469W	(2) RCA Female - Audio: Red / White	Installation	Single
	(1) RCA Female - Video: Yellow	HISTALIANON	DILIGIE

Connector Module Black / White	Description	Type	Size
Control / Computer Modules	•		
IN9356B / IN9356W	(1) 5-Pin Captive Screw Terminal	Installation	Single
	(1) Contact Closure Switch (Momentary - Single		
IN9360B / IN9360W	Pole with LED)	Installation	Single
	(1) 3.5mm Stereo Mini Female		
IN9361B / IN9361W	(1) 15-Pin HD Female	Barrel	Single
IN9362B / IN9362W	(1) 15-Pin HD Male	Barrel	Single
IN9364DB / IN9364DW	(1) XLR 4-Pin Female (Neutrik)	Installation	Double
IN9366DB / IN9366DW	(1) XLR 6-Pin Female (Neutrik)	Installation	Double
IN9374B / IN9374W	(1) 9-Pin D Female	Barrel	Single
IN9375B / IN9375W	(2) 6-Pin Mini DIN Female - Keyboard / Mouse	Barrel	Single
IN9378B / IN9378W	(1) 9-Pin D Male	Barrel	Single
IN9379B / IN9379W	(1) 6-Pin Mini DIN Female - Keyboard / Mouse	Installation	Single
IN9389B / IN9389W	(1) 6-Pin Mini DIN Female - Keyboard / Mouse	Barrel	Single
IN9391DB / IN9391DW	(1) XLR 5-Pin Female (Neutrik)	Installation	Double
IN9394DB / IN9394DW	(1) XLR 4-Pin Female (Switchcraft)	Installation	Double
IN9396DB / IN9396DW	(1) XLR 6-Pin Female (Switchcraft)	Installation	Double
IN9397DB / IN9397DW	(1) XLR 7-Pin Female (Switchcraft)	Installation	Double
IN9399B / IN9399W	(1) Mini XLR 6-Pin Male (Switchcraft)	Installation	Single
IN9452B / IN9452W	(1) Mini XLR 4-Pin Male (Switchcraft)	Installation	Single
1() (325) 1() (321)	(1) Contact Closure Switch (Momentary - Single	Installation	Billigie
IN9460B / IN9460W	Pole with LED)	Quick Connect	Single
100271001	(1) 3.5mm Stereo Mini Female	Quiek Connect	Single
IN9464B / IN9464W	(1) Mini XLR 4-Pin Male (Switchcraft)	Quick Connect	Single
I () TO (II) II () TO ()	(1) Rocker Switch (Latching - Single Pole),	Quien connect	Single
IN9465B / IN9465W	Max Voltage: 10A / 125VAC, 6A / 250VAC	Installation	Single
11,9 1002 / 11,9 100 //	Approvals: UL / CSA	mstariation	Single
IN9466B / IN9466W	(2) 6-Pin Mini DIN Female - Keyboard / Mouse	Installation	Single
IN9467B / IN9467W	(1) USB Connector	Quick Connect	Single
I (5 10/D / II (5 10/))	(1) Switch with Integral LED	Quien connect	Single
	(Latching, Single Pole, Single Throw)		Single
IN9470B / IN9470W	Max. Voltage: 5A / 125VAC, 3A / 250VAC	Installation	
	Approvals: CSA		
	(1) Switch (Latching, Single Pole, Double Throw)		
DIO471D / DIO471W/	Max. Voltage: 15A / 125VAC,	Installation	G:1.
IN9471B / IN9471W	10A / 250VAC, 10A / 28VDC	Installation	Single
	Approvals: CSA		
	(1) Switch (Latching, Double Pole, Double Throw)		
INO 472DD / INO 472DW	Max. Voltage: 15A / 125VAC,	Installation	Double
IN9472DB / IN9472DW	10A / 250VAC, 10A / 28VDC	Histaliation	Double
	Approvals: CSA		
Data / Phone Modules			
IN9358B / IN9358W	(1) RJ11 Female - Phone	Installation	Single
IN9358DB / IN9358DW	(1) RJ11 Female - Phone	Installation	Double
IN9359B / IN9359W	(1) RJ45 Female - Data	Installation	Single
IN9359DB / IN9359DW	(1) RJ45 Female - Data	Installation	Double
IN9453B / IN9453W	(1) RJ11 Female - Phone	Barrel	Single
IN9453DB / IN9453DW	(1) RJ11 Female - Phone	Barrel	Double
IN9454B / IN9454W	(1) RJ45 Female - Data	Barrel	Single
IN9454DB / IN9454DW	(1) RJ45 Female - Data	Barrel	Double
Blank Plate			
IN9350B / IN9350W	Blank Plate - Single		Single
IN9367DB / IN9367DW	Blank Plate - Single Blank Plate - Double		Double
IN9367DB / IN9367DW IN9368TB / IN9368TW	Blank Plate - Double Blank Plate - Triple		Triple
	Blank Plate - Triple Blank Plate - Quad		- 1
IN9369QB / IN9369QW	(1) Grommet - 1" ID		Quad
IN9474QB / IN9474QW	(1) Grommet - 1 ID		Quad

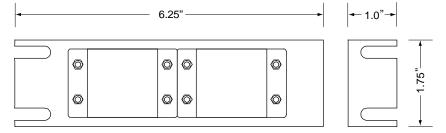
CIA116 DIMENSIONS



CIA116 - Front



Optional Rack Mounting Brackets



Warranty

- INLINE warrants the equipment it manufactures to be free from defects in materials and workmanship.
- If equipment fails because of such defects and INLINE is notified within two (2) years from the date of shipment, INLINE will, at its option, repair or replace the equipment at its plant, provided that the equipment has not been subjected to mechanical, electrical or other abuse or modifications.
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