



AVP-CBS2K-101

IP Controller

This Quick Start Guide is for installation only. For complete user manual go to www.aegis4av.com

User Manual

Version:201007V1.1



Important Safety Instructions



1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



6. Clean this apparatus only with dry cloth.



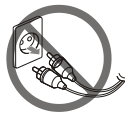
2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



7. Unplug this apparatus during lightning storms or when unused for long periods of time.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



8. Protect the power cord from being walked on or pinched particularly at plugs.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Only use attachments / accessories specified by the manufacturer.



5. Do not place sources of naked flames, such as lighted candles, on the unit.



10. Refer all servicing to qualified service personnel.

Warnings of FCC

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. 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 decoder.
- Connect the equipment into an outlet on a circuit different from that to which the decoder is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Introduction

AVP-CBS2K-101 (hereinafter referred to as IP controller) is an IP control box that is used as an A/V control device for controlling, configuring and managing encoders and decoders on the local area network. It integrates two Ethernet ports and two RS232 ports, offering integration-friendly control features——LAN (Web GUI & Telnet). It also can be used with a third party controller to provide a simple, flexible control and management options. IP controller can automatically search and display encoders and decoders. It is designed to be compatible with the configuration file from PC configurator (HDMI over IP Console) and use the imported configuration file to perform operations on encoders and decoders such as matrix and video wall.

Features

- IP control via LAN (Web GUI & Telnet) and a third party controller
- Features two Ethernet ports and two RS232 ports
- Discover encoders and decoders automatically
- Supports matrix switching between encoders and decoders
- Compatible with the configuration file from PC configurator to quickly perform operations on encoders and decoders, such as matrix and video wall
- Web configuration page

Package Contents

- 1 x IP Controller
- 1 x Power Supply (12 V 1A DC)
- 1 x Detachable Plug
- 1 x Phoenix Connector (Male, 3.5 mm, 6 pins)
- 2 x Mounting Ear
- 5 x Label Card (49 mm x 15 mm)

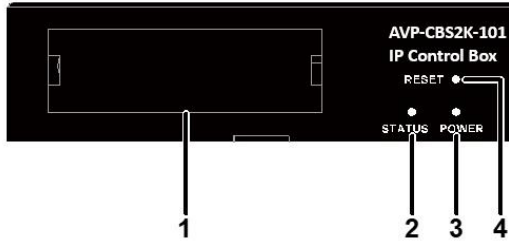
Specifications

Technical	
I/O Connections	1 x LAN1 (AV/POE) (10/100 Mbps) 1 x LAN2 (C) (10/100 Mbps) 2 x RS232
LED	1 x STATUS LED 1 x POWER LED
Button	1 x RESET Button
Control Method	LAN (Web GUI & Telnet), RS232 and a third party controller

General	
Power Supply	12 VDC 1 A
Power Consumption	<ul style="list-style-type: none">• 4.5 W Max. (without outputting 12 V 0.5 A using RS232 port)• 10.5 W Max. (with outputting 12 V 0.5 A using RS232 port)
Operating Temperature	32°F ~ 113°F (0°C ~ +45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing
Surge Protection	Voltage: ± 1000 V (Tested ten times respectively for the positive and negative voltages)
ESD Protection	Human body model: <ul style="list-style-type: none">• ± 8kV (air-gap discharge)• ± 4kV (contact discharge)
Product Dimension (W x H x D)	93.2 mm x 26 mm x 138.7 mm/3.67" x 1.02" x 5.46"
Case Dimension (W x H x D)	170 mm x 80 mm x 250 mm/6.69" x 3.15" x 9.84"
Weight	0.38 kg / 0.84 lbs (without accessories)

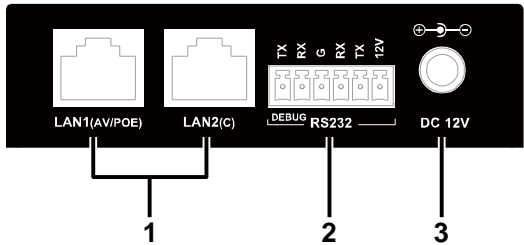
Panel Description


Front Panel




No.	Name	Description
1	Label Card Location	Inserts a supplied label card intended for writing short notes such as an IP address.
2	STATUS LED	<ul style="list-style-type: none">• Blue: when IP controller is working properly.• Off: when IP controller is powered off or is booting.
3	POWER LED	<ul style="list-style-type: none">• Red: when IP controller is powered on.• Off: when IP controller is powered off.
4	RESET	<p>When IP controller is powered on, use a pointed stylus to hold down RESET button for five or more seconds, and then release it. It will reboot and restore to its default settings.</p> <p>Note: When the default settings are restored, your custom data is lost. Therefore, exercise caution when using the RESET button.</p>

Rear Panel



No.	Name	Description										
1	RJ45 ports	1 x LAN1 (AV/POE): Connects to a switch for communication with encoders and decoders on the same network.										
		Default protocol:										
		<table border="1"> <tr> <td>IP Address</td> <td>169.254.1.1</td> </tr> <tr> <td>Subnet Mask</td> <td>255.255.0.0</td> </tr> <tr> <td>Gateway</td> <td>169.254.1.254</td> </tr> <tr> <td>DHCP</td> <td>Off</td> </tr> <tr> <td>Link speed and duplex level</td> <td>Auto detected</td> </tr> </table>	IP Address	169.254.1.1	Subnet Mask	255.255.0.0	Gateway	169.254.1.254	DHCP	Off	Link speed and duplex level	Auto detected
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		Gateway	169.254.1.254									
		DHCP	Off									
		Link speed and duplex level	Auto detected									
		Ethernet port indicators:  <ul style="list-style-type: none"> Green Link LED: this green colored LED lights when the device actively communicates with a network Amber Activity LED : this amber colored LED flickers as the device is connected to a network. 										
		1 x LAN2 (C): Connects to a third party controller for controlling, configuring and managing SC009, encoders and decoders through LAN control (Web GUI & Telnet).										
		Default protocol:										
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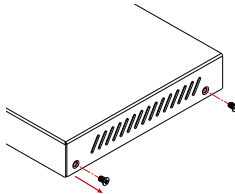
No.	Name	Description																
		Ethernet port indicators  same as above Note: <ul style="list-style-type: none"> • Only LAN1 (AV/POE) port supports PoE. You can connect it to a PoE switch to receive power, eliminating the need for a nearby power outlet. • We would recommend that you power IP controller using either a power adapter or a PoE switch instead of using both them at the same time. For example, if you want to use a power adapter, ensure that PoE function of the connected LAN port in the switch is disabled or a non-PoE switch is used. 																
2	RS232 ports	<p>Left (DEBUG): Pins TX, RX, G are used for device troubleshooting only.</p> <p>RS232 parameters:</p> <table border="1" data-bbox="325 666 961 802"> <tr> <td>Baud Rate</td> <td>115 200 bps</td> </tr> <tr> <td>Data Bits</td> <td>8 bits</td> </tr> <tr> <td>Parity</td> <td>None</td> </tr> <tr> <td>Stop Bits</td> <td>1</td> </tr> </table> <p>Middle (Control): Pins G, RX, TX are used for controlling, configuring and managing IP controller, encoders and decoders through RS232 software or a third party controller.</p> <p>RS232 parameters:</p> <table border="1" data-bbox="325 967 961 1102"> <tr> <td>Baud Rate</td> <td>9 600 bps</td> </tr> <tr> <td>Data Bits</td> <td>8 bits</td> </tr> <tr> <td>Parity</td> <td>None</td> </tr> <tr> <td>Stop Bits</td> <td>1</td> </tr> </table> <p>Right (Power): Pins G, 12V are used for providing a 12 VDC 0.5 A output.</p> <p>Note: Please connect the correct pins for device debug and control. When IP controller is powered by a power adapter, if you connect control terminal to control port after first connection with the debug port, you need to reboot IP controller for device control process.</p>	Baud Rate	115 200 bps	Data Bits	8 bits	Parity	None	Stop Bits	1	Baud Rate	9 600 bps	Data Bits	8 bits	Parity	None	Stop Bits	1
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3	DC 12V	Connects to a supplied 12 VDC 1 A power adapter.																

Installation

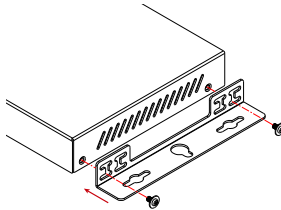
Note: Before installation, please ensure the device is disconnected from the power source.

Steps to install the device in a suitable location:

1. Remove the four screws from the two side panels.



2. Position and install the mounting brackets on the two side panels using the mounting screws provided in package.



3. Mount and secure the device to a surface or a suitable location with the mounting screws (provided by others).

Warranty

Limited 3 Year Warranty

aegis Multimedia INC. ("Manufacturer") warrants that this product is free of defects in both materials and workmanship for a period of 3 years as defined herein for parts and labor from date of purchase. This Limited Warranty covers products purchased in the year 2020 and after. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with same or similar model) at our option without charge for parts or labor for the specified product lifetime warranty period.

This warranty shall not apply if any of the following:

- A. The product has been damaged by negligence, accident, lightning, water, or mishandling.
- B. The product has not been operated in accordance with procedures specified in operating instructions.,
- C. The product has been repaired and or altered by other than the manufacturer or authorized service center.
- D. The product's original serial number has been modified or removed.
- E. External equipment other than supplied by the manufacturer, in the determination of a manufacturer, shall have affected the performance, safety or reliability of the product.
- F. Part(s) are no longer available for the product.

If the product needs repair or replacement during the specified warranty period, the product should be shipped back to Manufacturer at Purchaser's expense. Repaired or replaced product shall be returned to Purchaser by standard shipping methods at Manufacturer's discretion. Express shipping will be at the

expense of the Purchaser.

No other warranty, express or implied other than Manufacturers shall apply.

The manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction of the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period. This warranty does not cover damage to the equipment during shipping and Manufacturer assumes no responsibility for such damage. This product warranty extends to the original purchaser only and will be null and void upon any assignment or transfer.

