neopro INTEGRATOR

IGUANA

NPCTL4k

IP Controller

User Manual

Version: V1.0.0

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.

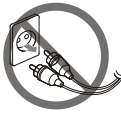**6.** Clean this apparatus only with dry cloth.

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.

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Introduction

Overview

This device is used as an A/V controller for controlling and configuring encoders and decoders over IP network. It integrates two Ethernet ports and two RS232 ports, offering integration-friendly control features—LAN (Web GUI & Telnet) and serial control. It also can be used with a third party controller to provide a simple, flexible control and management options. It can automatically search and display encoders and decoders.

Features

- IP control via LAN (Web GUI & Telnet) and a third party controller.
- Features two Ethernet ports and two RS232 ports.
- Discovers encoders and decoders automatically.
- Supports matrix switching between encoders and decoders.
- Offers web configuration page.

Package Contents

- 1 x IP Controller
- 1 x Phoenix Male Connector (3.5 mm, 6 Pins)
- 2 x Rack Mounted Brackets
- 2 x Wall Mounted Brackets
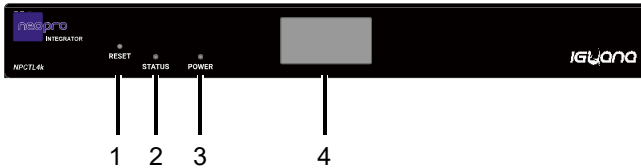- 8 x Mounting Screws (M2.5*L5)

Specifications

Technical	
I/O Connections	1 x LAN (AV POE) (10/100/1000 Mbps) 1 x LAN (CONTROL) (10/100/1000 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, Third party controller

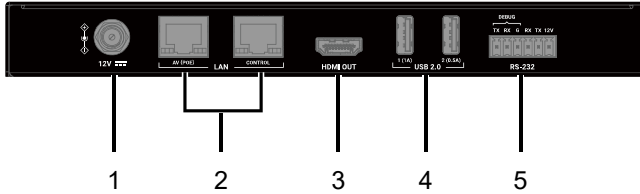| General	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C) 10% ~ 90%, non-condensing
ESD Protection	Human body model: • ±8kV (air-gap discharge) • ±4kV (contact discharge)
Power Supply	DC 12V
Power Consumption	3.8W (max)
Product Dimension (W x H x D)	215mm x 25mm x 120.2mm/8.46" x 0.98" x 4.73"
Net Weight	0.69kg/1.52lbs

Panel Description

Front Panel

#	Name	Description
1	RESET	When the device is powered on, use a pointed stylus to hold down this RESET button for five or more seconds, and then release it, the device will reboot and restore to its default settings. **Note:** When the default settings are restored, your custom data is lost. Therefore, exercise caution when using the RESET button.
2	STATUS	• On: The device is working properly. • Off: The device is booting or powered off.
3	POWER	• On: The device is powered on. • Off: The device is powered off.
4	LCD Screen	Displays the AV (POE) and Control port's IP addresses as well as firmware version.

Rear Panel

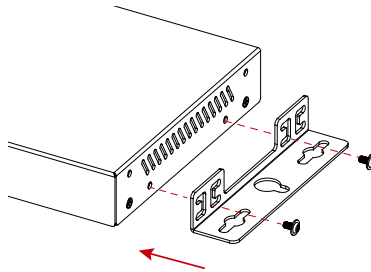| #	Name	Description
1	12V	Connect to the DC 12V power.
2	LAN	• AV (POE): Connect to a switch for communication with encoders and decoders on the same network. ➔ Default IP setting: DHCP: On When there's no DHCP server in the system, this port falls back to the auto IP 169.254.1.1; if 169.254.1.1 has been taken, it generates an IP address for itself in the following range: IP Address: 169.254.X.Y Subnet Mask: 255.255.0.0 Gateway: 169.254.1.254 Link speed and duplex level: Auto detected • CONTROL: Connect to a third-party controller for controlling and configuring this controller, encoders, and decoders through LAN control (Web GUI & Telnet). ➔ Default IP setting: IP Address: 192.168.11.243 Subnet Mask: 255.255.0.0 Gateway: 192.168.11.1 DHCP: Off Link speed and duplex level: Auto detected **Note:** • Only 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 this device

#	Name	Description
		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.
3	HDMI Out	Connect to an HDMI display as well as USB 2.0 peripheral
4	USB 2.0	devices to control the system.
5	RS-232	• Left (DEBUG): Pins TX, RX, G are used for device troubleshooting only. RS232 parameters: Baud Rate: 115 200 bps Data Bits: 8 bits Parity: None Stop Bits: 1 • Middle (Control): Pins G, RX, TX are used for controlling and configuring the device and decoders through RS232 software or a third-party controller. RS232 parameters: Baud Rate: 9 600 bps Data Bits: 8 bits Parity: None Stop Bits: 1 • Right (Power): Pins G, 12V are used for providing a DC 12V 0.5A output. Note: Please connect correct pins for device debug and control. When this device 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 this device for device control process.

Installation

The device can be installed on a flat surface or an equipment rack using mounting brackets provided.

To install the device on a flat surface, perform the following:
1. Attach the wall mounted bracket to the enclosure using the screws provided. The bracket is screwed to the enclosure as the following.

2. Repeat step 1 for the other side of the device.
3. Mount and affix the device on a surface as desired with mounting screws (screws in this step are not included in the package).

Web UI

The device offers web UI page for basic controls and advanced configurations. It can be accessed through a modern browser, e.g. Chrome, Safari, Firefox, Microsoft Edge, etc.

It includes two network ports—the "CONTROL" port comes with a default IP address of 192.168.11.243 and subnet mask of 255.255.0.0; the "AV (POE)" port obtains an IP address from a DHCP server.

To access the device's Web UI:
1. Connect the LAN port of the device to a local area network.
2. Connect the PC to the same network as the device.
3. Input the device's IP address in the browser and press Enter.
   Tip: Look over the front panel's LCD screen to easily get the IP address.
4. Input the username and password (default username and password is admin) in the login window, press **Login** to enter.
5. You will come to the initial page for the first login. Click either of the following option to proceed.
   ➔ Click to get started: select to start the wizard setup step by step.
   ➔ Skip the wizard setup: select to skip wizard setup to enter the main page directly.

The main page includes the following tabs:
(1) Tx/Rx Status: Offers all encoders & decoders' information (for host name, IP address, firmware version, input timing, output timing, HDCP-encrypted status, EDID, connected RX/TX, video preview, etc.) and configurations (for video, audio, service,

security authentication, EDID, OSD, etc.).

(2) Matrix Status: Offers matrix configurations.

(3) Video Wall: Offers video wall creation and routing.

(4) Multiview: Offers Multiview configurations.

(5) Advanced: for batch configurations of IP address, video, audio, image, serial/IR, EDID, security and firmware on encoders and decoders.

(6) NPCTL4k Touch: a configuration page of the application that allows zone configuration and display power configuration.

(7) Controller: a configuration page for this controller that allows IP address configuration, security configuration, upgrade, logging, etc.

Contact Neopro Support

Got a question about our product, or need some help? We have a couple of options:

Contact Neopro at:

      Phone Support: 754 222-8520

      Email Support: support@neoprointegrator.com