

User Manual



NetPanel

Networked User Interface

Revision History

Revision	Date	Author(s)	Description
4	05.07.2026	ME	API fix
3	15.06.2026	ME	vManager chapter added
2	30.01.2026	FL	First revision
1	16.01.2026	FL	Initial version

Contents

1	Safety Precautions	4
2	Introduction	5
3	Installation	9
4	Network Configuration	11
5	Integration	14
6	Web Interface	16
7	vManager	20
	Appendices	24
A	API	25
B	Certifications	30

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Chapter 1

Safety Precautions

This chapter contains important safety information for the installation, operation, and maintenance of the NetPanel. Read these precautions carefully before using the device to ensure safe operation and to prevent damage to equipment or injury to personnel.

Before installing the NetPanel, read this manual completely and ensure that all installation personnel are familiar with the product and applicable safety requirements. Verify that the installation environment is suitable for the device and within the specified operating conditions. Disconnect power before making any wiring connections. Do not install or operate the product if it appears damaged. Ensure adequate ventilation around the unit and prevent exposure to moisture, excessive heat, or mechanical stress.

1.1 Indoor Use Only

The NetPanel is intended for indoor use only. Do not install or operate the device in environments exposed to rain, moisture, condensation, excessive dust, or direct sunlight. Operating the product outside its specified environmental conditions may result in malfunction, damage, or reduced product lifetime.

1.2 No User-Serviceable Parts



The NetPanel contains no user-serviceable parts. Do not attempt to open, disassemble, or repair the device. Opening the enclosure may expose sensitive electronic components and may void the warranty. Repairs must only be carried out by qualified service personnel or the manufacturer.

1.3 Product Modifications



Do not modify the NetPanel or its accessories. Unauthorized modifications may impair product performance, compromise safety, invalidate regulatory compliance certifications, and void the warranty.

Chapter 2

Introduction

Thank you for choosing the NetPanel by Visual Productions. The NetPanel is a capacitive touch user interface designed for lighting control applications. This range of interfaces provides a solution for fixed installations within the system integration market. They work together seamlessly with our CueCore3, but can also be combined with any third party integration system that can send and receive OSC, UDP or TCP network messages.



Figure 2.1: NetPanel series

At the time of writing this manual the *NetPanel* firmware was at version 1.0.3.

The NetPanel is available in the following three variants:

NetPanel B4

With the four buttons on the NetPanel B4, switching lighting circuits and selecting presets is straightforward. Each button can generate a short or a long press event, and is fitted with an RGB LED for instant and dynamic feedback to the user.



Figure 2.2: NetPanel B4

NetPanel E1

The NetPanel E1's circular control allows for intuitive color selection, as well as intensities and color temperatures. Its RGB ring illustrates the active function of the wheel: a color spectrum, intensity gradient or encoder position marker.



Figure 2.3: NetPanel E1

NetPanel F2

With two faders, the NetPanel F2 is ideal for intensities and color temperatures. It is also suitable for adjusting AV control levels, for example. Here, the LED feedback will indicate the currently set level, even when changed on a different interface or controller.



Figure 2.4: NetPanel F2

2.1 Compliance

This device is in compliance with the following regulations:

- CE
- UKCA

See the appendix for the associated certificates.

2.2 Features

All NetPanel variants share the following specifications:

- Ethernet (100 Mbit/s)
- Power over Ethernet (PoE) Class 1
- Capacitive touch glass interface
- RGB LED indicators
- Haptic feedback
- Wall mounted
- Safe and easy to clean
- Web interface for setup and monitoring

2.3 What's in the box?

The NetPanel packaging contains the following items (see figure 2.5):

- NetPanel
- Mounting backplate
- 1m network cable
- Quick Start card

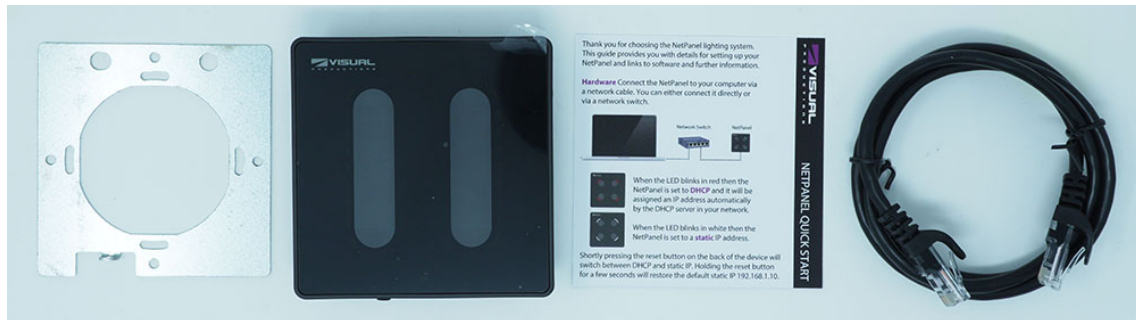


Figure 2.5: NetPanel box contents

2.4 Unpacking

Carefully unpack the NetPanel and inspect the contents for any signs of damage that may have occurred during transportation. Verify that all supplied accessories and documentation are present. If any damage is found, do not install or operate the device and contact your supplier immediately. Retain the original packaging materials whenever possible, as they provide the safest means for transporting or storing the product in the future.

2.5 Intended Disposal

At the end of its service life, this product must not be disposed of with household waste. The NetPanel contains electronic components that should be collected and recycled in accordance with local regulations for Waste Electrical and Electronic Equipment (WEEE). Please dispose of the product through an authorized recycling facility or return it to an appropriate electronic waste collection point. Proper disposal helps conserve natural resources and prevents potential negative effects on the environment.

2.6 Further help

If you have further questions after reading this manual, please consult the online forum: <https://forum.visualproductions.nl>

Chapter 3

Installation

This chapter discusses how to physically set up the NetPanel.

3.1 Wall Mounting

Each NetPanel comes with a metal backplate, which attaches to standard gang boxes. The NetPanel itself is then held securely in place using strong magnets.



Figure 3.1: Wall mounting

A screw is provided to lock the NetPanel to the backplate.

3.2 Power

Connect the unit to a PoE (Power over Ethernet) switch or injector using a standard Ethernet cable. The unit will power on automatically.

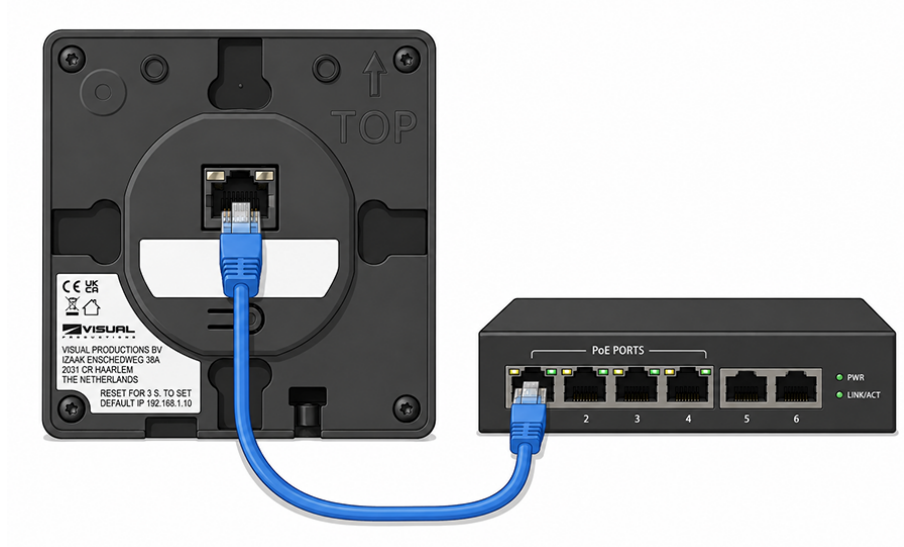


Figure 3.2: PoE powered

Power and data are provided over the Ethernet cable. It has a power consumption rating of PoE Class I.

Chapter 4

Network Configuration

This chapter explains the network configuration options available on the NetPanel. It describes IP addressing, DHCP operation, and the methods available for configuring or restoring network settings.

4.1 IP Address

The NetPanel supports both static IP addressing and automatic IP addressing. By default, the NetPanel is set to 'DHCP' in which it will be automatically assigned an IP address by the DHCP server in the network.

If the NetPanel is set to DHCP mode and no DHCP server is present in the Network, it will automatically fall back to a random IP address in the range 169.254.xx.xx after a few seconds.

Static IP addresses are useful, for instance when there is a direct peer-to-peer connection between a NetPanel and a computer. It is also useful in permanent installations where the IP address of the NetPanel is known by other equipment and therefore should not change. When using DHCP there is often the risk of automatically being given a new IP address in the event that the IP lease time runs out. When using static IP addresses, make sure that all equipment on the network has a unique IP addresses within the same subnet.

The NetPanel's LED helps to determine which kind of IP address is set. The LED will indicate red when using DHCP and it will indicate white in the case of a static IP address.

There are three ways to change the IP address setting of the NetPanel.

- **vManager** can be used to detect a NetPanel on the network. Once found, the vManager software (figure chapter 7) allows for changing the IP address, subnet mask and DHCP settings.
- If the IP address is already known then browsing to this address using the computer's browser will show the NetPanel's **web interface**. The *Settings* page of the web interface enables changing the same network related settings.
- Briefly using the **reset button**. As described in the next section.

4.2 Reset Button

The *Reset Button* is located on the side of the device.

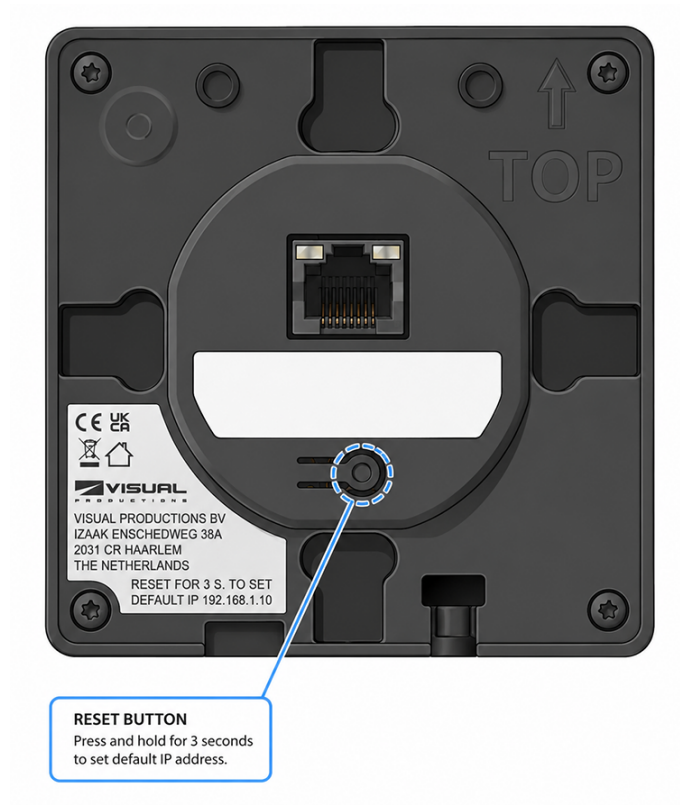


Figure 4.1: Reset button

The reset button provides several functions depending on how it is used:

Short press Toggles the IP address mode between *DHCP* and *Static IP*.

Long press Press and hold the button until the status LED starts flashing white. The NetPanel will revert its IP settings to the default static IP address of 192.168.1.10.

Power-on reset Press and hold the reset button while applying power to the NetPanel. Release the button when the purple status LED stops flashing. The device will be restored to its factory default settings. All user settings, configuration data, and IP settings will be erased.

4.3 Network Connector LEDs

The NetPanel has status LEDs integrated in the RJ45 network connector. These LEDs provide a quick indication of the Ethernet link, network activity and PoE power status.

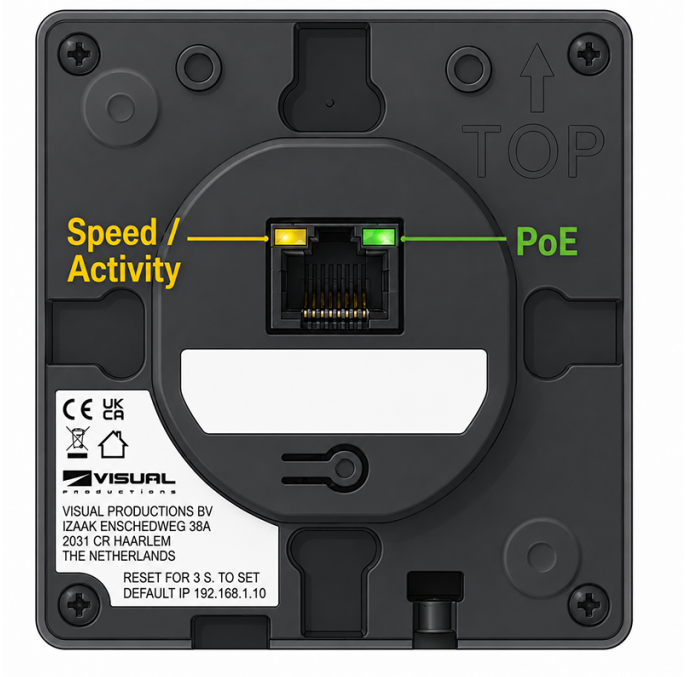


Figure 4.2: Network connector LEDs

The LEDs are located at the top-left and top-right of the RJ45 connector.

LED	State	Meaning
Left	Yellow on	10/100 Mbit/s link
Left	Yellow blinking	10/100 Mbit/s activity
Right	Green on	PoE power is present
Right	Off	No PoE power detected

Table 4.1: Network connector LEDs

Chapter 5

Integration

The NetPanel is designed to integrate easily into a wide range of control systems. It can operate as a dedicated user interface for CueCore3 installations, or as an independent network controller in third-party systems.

Communication is performed over standard Ethernet networks using OSC, UDP and TCP protocols. The NetPanel can both transmit user interactions and receive feedback, allowing external systems to update LED colours, indicators and control values in real time.

This chapter explains how to integrate the NetPanel with CueCore3 and with third-party control platforms.

5.1 CueCore3

The NetPanel offers seamless integration with CueCore3 (firmware version 1.32.xx or later). Once integrated, CueCore3 can configure the behavior of the panel, receive user actions, and provide visual feedback through the LEDs and indicators.

To integrate a NetPanel with CueCore3:

1. Connect both devices to the same Ethernet network.
2. Ensure both devices are operating within the same IP subnet.
3. Open the CueCore3 web interface.
4. Navigate to *Automation* → *Integration*.
5. Drag the desired NetPanel from the *Detected* list to the *Integrated* list.
6. Select the device and click *Edit* to configure its controls and behavior.

Once a NetPanel has been claimed by a CueCore3, it can no longer be claimed by another CueCore3 on the same network. The device will remain associated with the claiming CueCore3 until it is released or reset.

Figure 5.1 shows a NetPanel integrated with CueCore3.

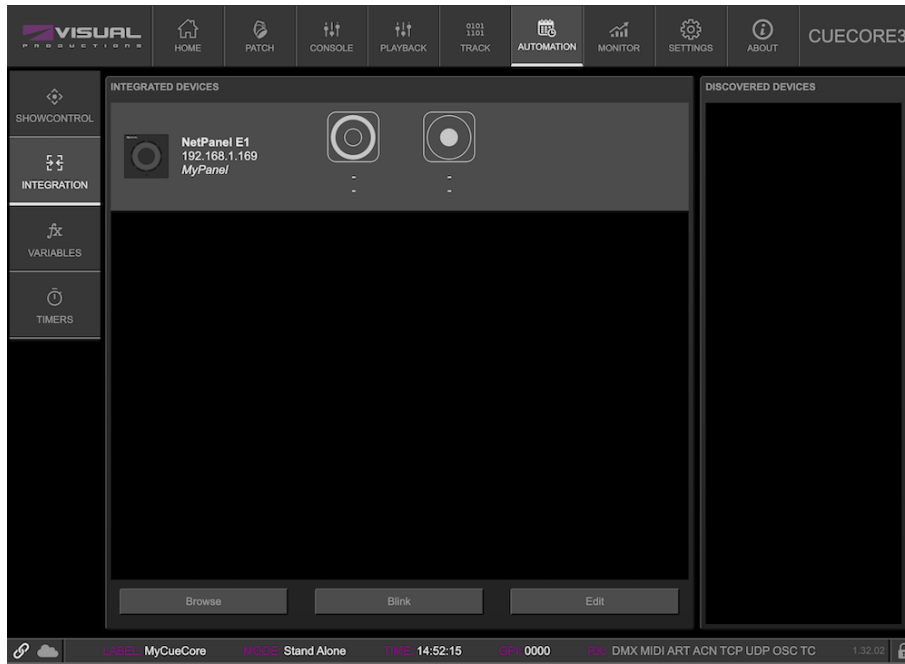


Figure 5.1: Integrating a NetPanel with a CueCore3

5.2 Third party systems

The NetPanel can also be integrated with third-party control systems such as Q-SYS, BrightSign, Crestron, Control4, AMX and similar platforms.

Before integration, configure the device using either the web interface or vManager:

- Locate the NetPanel in vManager and click *Browse*, or enter the device's IP address directly into a web browser.
- Open the *Settings* page.
- Configure the required network and API settings.
- Verify that the correct communication protocol and ports are enabled.

Once configured, the external controller can communicate with the NetPanel using OSC, UDP or TCP messages.

The NetPanel supports bidirectional communication. User interactions such as button presses, encoder movements and fader changes can be transmitted to the external system, while incoming messages can be used to update LED colours, indicator states and displayed values.

For a complete description of the available commands and message formats, refer to the API appendix on page 25.

Chapter 6

Web Interface

The NetPanel features an internal web interface used for configuration, monitoring, and diagnostics. A modern web browser is required during setup. After configuration, the NetPanel can operate without an active web connection.

6.1 Home

On the NetPanel's *Home* page, you find a read-only overview of the state of the device. This includes a live visual representation of the interface. When touched, the Panel shows a blue circle in the appropriate place. In the *Receiving* section, as well as on the Status Bar: when a message of a certain protocol is being received the protocol indicator will change its color to highlight this. See Figure: 6.1.

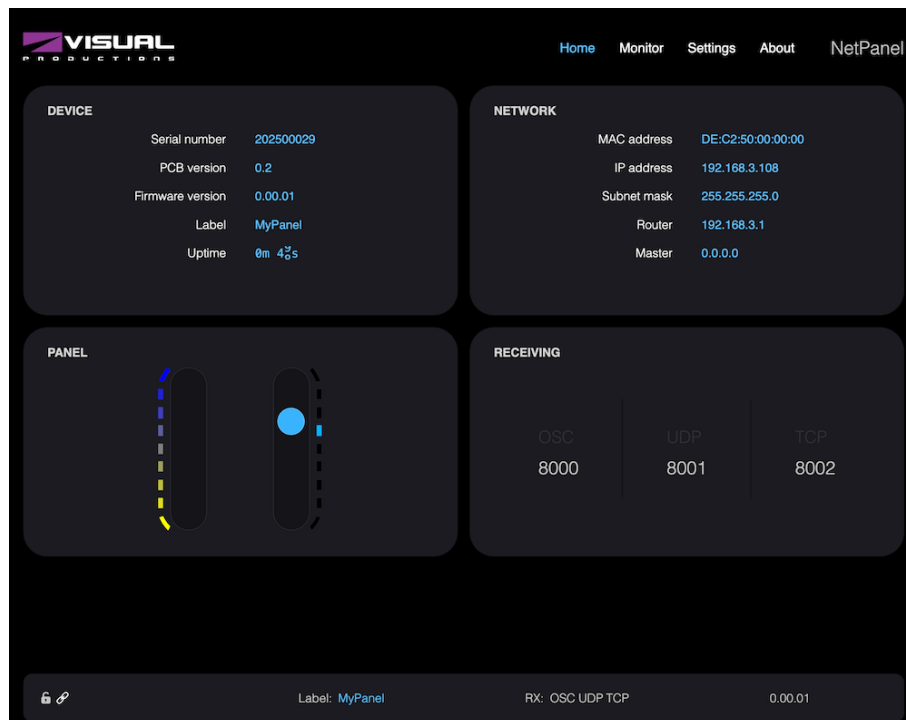


Figure 6.1: *Home* Page

Status Bar

A note on the Status Bar, visible at the bottom on all pages. It shows real-time information on Password Lock state, web interface connectivity and label, as well as message protocols being received and the currently installed firmware version.

6.2 Monitor

The latest transmitted and received network messages are displayed here. Very useful when installing or troubleshooting. Timestamps are relative to the device's uptime. A message shown in blue represents a valid API message. See page 25 for more API details.

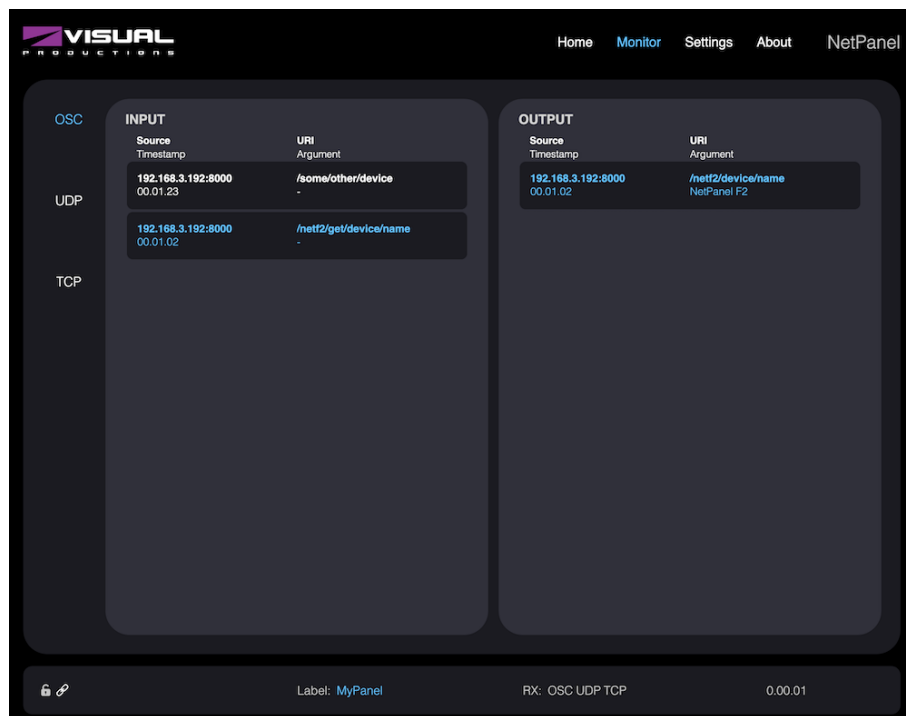


Figure 6.2: Monitor Page

6.3 Settings

To make changes to the NetPanel's configuration, go here. Change the Label, network configuration, behavior, etc.

Using a password will keep unwanted changes from being made. Keep in mind that removing the password is only possible either through this web page (**requires** the password), or by powering up the NetPanel with the *Reset* button pressed (**does not require** the password). This full reset results in all settings being restored to their factory default values.

6.3.1 Behavior

Depending on the NetPanel variant, one or more of the following behaviors are available for the interface elements.

Behaviour	Colour	Description
Mix	min / max	Shows a gradient from colour 'min' to colour 'max'
Encoder	level	One LED lights up, showing the selected value
Intensity	level	LEDs light up, up to the selected value
Colour	-	The encoder shows a colour wheel
Pulse	level*	LED lights up while the button is pressed
Toggle	off / on*	Pressing the button toggles between 'off' and 'on'

*On the NetPanel E1, the center button is not equipped with an indicator LED, so for this device, these options are blank.

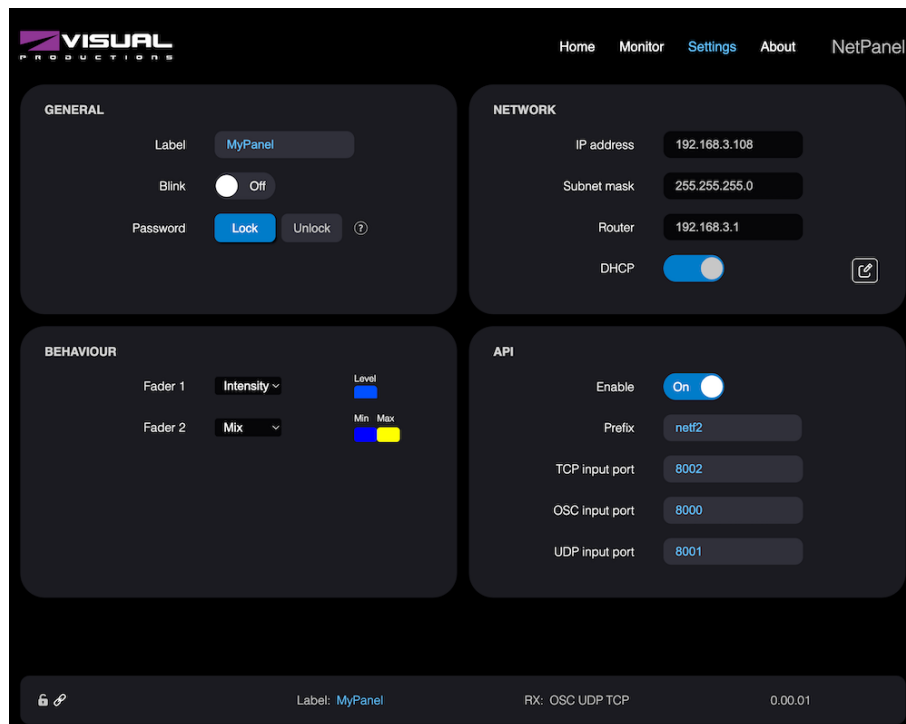


Figure 6.3: Settings Page

6.4 About

On this page you can enter your own notes, which can come in handy in certain circumstances. Also find out where to get more information or help from Visual Productions. Figure: 6.4.

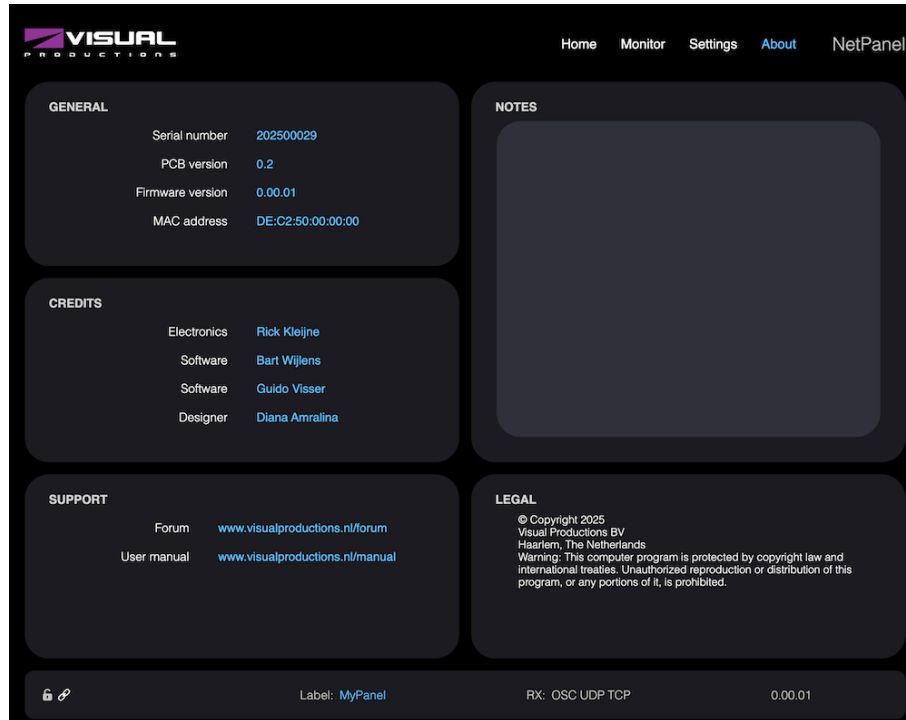


Figure 6.4: About Page

Chapter 7

vManager

A free-of-charge software tool called vManager has been developed to manage the devices. vManager allows you to:

- Label your device with a distinguishable name
- Configure the IP address, subnet mask, router and DHCP
- Backup and restore the device's data and settings
- Perform firmware upgrades
- Identify a specific device (in a multi device set-up) by blinking its LED
- Revert to factory defaults

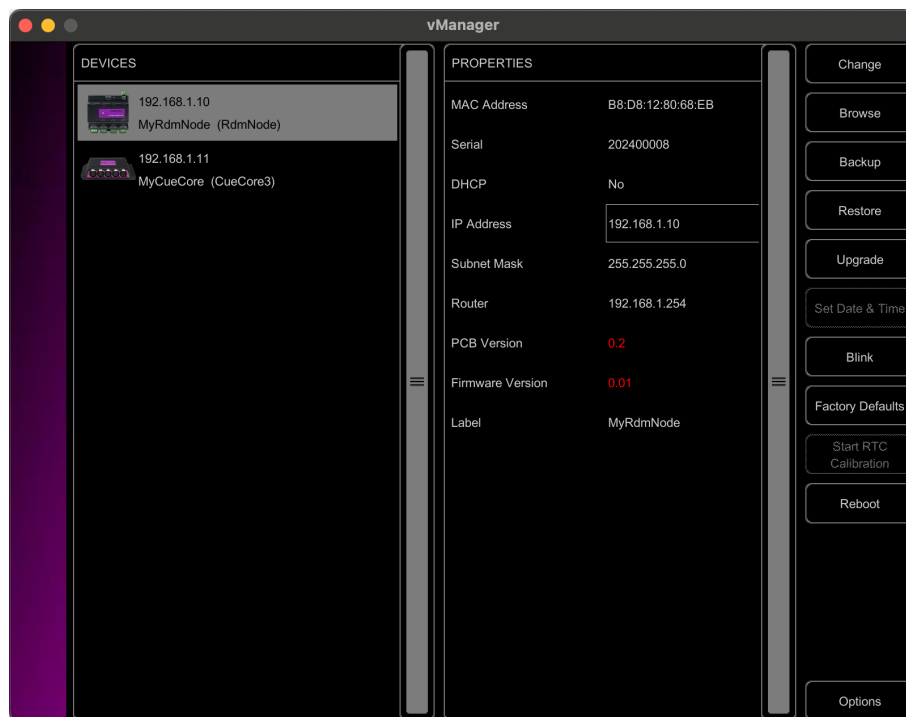


Figure 7.1: vManager

The following section explains the buttons in the vManager, as seen in figure 7.1.

7.1 Backup

Backups of all the programming data inside the NetPanel can be made. This backup file is saved on the computer's hard-disk and can be easily transferred via e-mail or USB stick. The data of the backup can be restored via the *Restore* button.

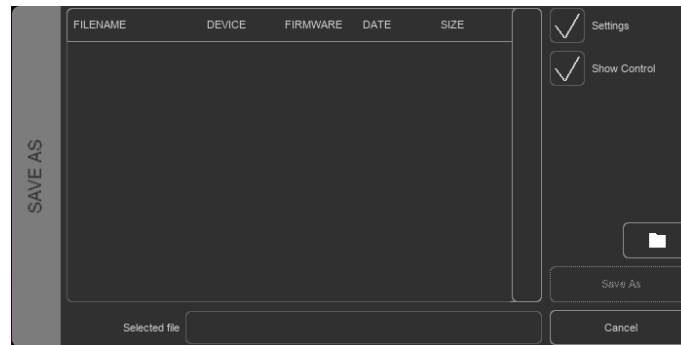


Figure 7.2: Creating a backup for the NetPanel

Apps distributed by app stores are not always allowed to access files outside their designated location. It is important to know where vManager is storing its files, in case you wish to transfer a backup file to a memory stick or dropbox.

This file location differs per operating system and can be a long and obscure path. For this reason, vManager provides you with a shortcut to the correct file location. A *Folder* button can be found in the file related dialogs. Clicking this button will open a file browser at the appropriate folder.

7.2 Upgrade Firmware

vManager will show the firmware version of a selected device in orange when a newer *Release* version is available. To upgrade the firmware, make sure the device is selected and press the *Upgrade* button. The dialogue allows for selecting from the list of available firmware versions. Firmware versions in the list will show whether they are stable *release* versions or *beta* with new and or experimental functionality. *Beta* versions are not recommended to be used in production environments.



Figure 7.3: Firmware upgrade



Important: Make sure the power to the device is not interrupted during the upgrade process.

7.3 Blink

The device's status LED can be set to *Blink* fast for about 2 seconds, to identify the specific unit amongst multiple devices. This blinking is enabled by double-clicking on a device in the Devices list or by selecting a device and then clicking the Blink button. Alternatively, browse to the Settings page of the device, and choose Blink in the top left. Now the device will blink as long as the slider is set to 'on'.

7.4 Factory Defaults

All the user data are stored in the on-board memory. They will be completely erased and all settings reverted to their defaults by pressing the *Factory Defaults* button. This action does not affect the device's IP settings.

7.5 Reboot

The *Reboot* button allows you to remotely restart the device. This is useful for testing the unit's behaviour after a power-cycle.

7.6 Installing vManager

The vManager app is available on the most common range of operating systems.

The software is distributed through app-stores to make receiving future updates automatic and very easy.

Note: vManager is no longer provided for mobile devices such as tablets or mobile phones.

7.6.1 Windows

Visit the Microsoft store at <https://www.microsoft.com/en-us/p/vmanager/9nblggh4s758>.

Windows 11 is required.

7.6.2 macOS

Visit the Apple macOS app store at <https://apps.apple.com/us/app/vmanager/id1074004019>.

macOS 26.5 is recommended.

7.6.3 Ubuntu

You can acquire the vManager from Snapcraft at <https://snapcraft.io/vmanager>.

Alternatively, it can be installed by using the command-line:

```
snap find vmanager  
snap install vmanager
```

To update the apps later on via the command-line type:

```
snap refresh vmanager
```

Ubuntu 26.04 LTS is recommended. The software is only available for the amd64 architecture.

Appendices

Appendix A

API

A.1 Overview

This appendix describes the API commands available for NetPanel devices.

The commands are organized into logical categories. Each section provides a brief description followed by a reference table containing the command URI, data type, and value information.

Most commands are available in both **get** and **set** variants:

* **Get** commands retrieve the current value or configuration from the device. * **Set** commands update a configuration value on the device.

Some commands are read-only and therefore only support the get variant. This is indicated in the corresponding reference tables.

API commands use the following format:

GET prefix/get/URI Definition

SET prefix/set/URI Definition=value

The API prefix is configurable and can be viewed or modified on the *Settings* page.

For OSC communication, all commands must be preceded by a leading forward slash (/). For UDP and TCP communication, forward slashes (/) are replaced by hyphens (-).

The NetPanel automatically keeps track of the last four IP addresses from which valid API messages were received. Device status changes, updates, and notifications are automatically transmitted to these addresses.

A.2 OSC

Open Sound Control (OSC) is the preferred protocol for integrating with the NetPanel, as its strongly typed message structure provides greater consistency, reliability and interoperability than plain text-based protocols.

A.2.1 Device commands

The `Device` commands provide general information about the NetPanel, such as type, serial number, firmware version, and uptime.

	Command	Argument	Description
Get	<code>/{{prefix}}/get/device/name</code>	Boolean	Returns the product name of the device, e.g. <i>NetPanel B4</i> .
Get	<code>/{{prefix}}/get/device/uptime</code>	Boolean	Returns the up time of the device in: "hh mm", "dd hh" or "yy dd". (e.g. 1h 45m, 250d 23h or 1y 360d).
Get	<code>/{{prefix}}/get/settings/label</code>	String	Returns the label of the device. (e.g. <i>MyPanel</i>).
Set	<code>/{{prefix}}/set/device/blink</code>	-	The device will blink for 5 seconds.
Set	<code>/{{prefix}}/set/device/blink</code>	Boolean	The device will permanently blink.

Example: `/panel/set/device/blink Argument=on =>Activate the blink setting`

A.2.2 Button commands

The `{id}` field denotes the button (b1 - b4).

	URI	Argument	Description
Get	<code>/{{prefix}}/get/{{id}}/value</code>	Boolean	Returns the button state.*
Set	<code>/{{prefix}}/set/{{id}}/value</code>	Boolean	Sets the button state.*
Get	<code>/{{prefix}}/get/{{id}}/led</code>	Color	Returns the color of the LED.
Set	<code>/{{prefix}}/set/{{id}}/led</code>	Color	Sets the color of the LED.

* The button state is only relevant when a button is in *Toggle* mode.

A.2.3 Fader and Encoder commands

The `{id}` field denotes the fader (f1 - f2) or encoder (e1).

	URI	Argument	Description
Get	<code>/{{prefix}}/get/{{id}}/value</code>	Integer	Returns the position in the range [0,255].
Set	<code>/{{prefix}}/set/{{id}}/value</code>	Integer	Sets the position in the range [0,255].

Examples:

`/panel/get/e1/value -> returns 85`

`/panel/set/b1/led #FF0000 -> button 1 LED turns red`

A.2.4 Events

The *Event* commands notify external systems when physical interactions occur, such as button presses or fader movements. These events can be different per NetPanel, so be sure to verify which NetPanel type you have to see which events it supports.

URI	Argument	Description
{prefix}/{id}/onmousedown	Boolean	True: When finger is placed on the control
		False: The finger is lifted
{prefix}/{id}/onshort	-	Press and release the button within 1 second.
{prefix}/{id}/onlong	-	Press and hold the button for 1 second.
{prefix}/{id}/onchange	Integer	Integer value from Encoder or Fader.
{prefix}/{id}/onchange	Color	RGB value sent by Encoder.
		Formatted in hexadecimal RRGGBB
{prefix}/{id}/onchange	Boolean	Buttons return 'True' or 'False'

A.3 UDP and TCP

For TCP communication, the NetPanel determines the end of a message by detecting a carriage return and line feed sequence (`\r\n`).

Depending on the operating system, programming language, or software used, these characters may be represented or encoded differently.

Some TCP clients automatically append the required end-of-line characters to transmitted messages, while others require them to be included explicitly. Refer to the documentation of your TCP client or control system to determine how to append the `\r\n` sequence to outgoing messages.

UDP messages do not require message termination characters, as each UDP packet is received as a complete message.

A.3.1 Device commands

The *Device* commands provide general information about the NetPanel, such as type, serial number, firmware version, and uptime.

	Command	Argument	Description
Get	{prefix}-get-device-name	String	Returns the product name of the device <i>NetPanel B4</i> .
Get	{prefix}-get-device-uptime	String	Returns the up-time of the device in: "hh mm", "dd hh" or "yy dd". (e.g. 1h 45m, 250d 23h or 1y 360d).
Get	{prefix}-get-settings-label	String	Returns the label of the device. (e.g. <i>MyPanel</i>).
Set	{prefix}-set-device-blink	-	The device will blink for 5 seconds.
Set	{prefix}-set-device-blink	Boolean	The device will permanently blink.

UDP Example: `panel-set-device-blink=on` (Activates the blink setting)

TCP Example: `panel-set-device-blink=on\r\n` (Activates the blink setting)

A.3.2 Button Commands

The {id} field denotes the button (b1 - b4).

	Command	Argument	Description
Get	{prefix}-get-{id}-value	Boolean	Returns the button state.*
Set	{prefix}-set-{id}-value	Boolean	Sets the button state.*
Get	{prefix}-get-{id}-led	Color	Returns the color of the LED.
Set	{prefix}-set-{id}-led	Color	Sets the color of the LED.

* The button state is only relevant when a button is in *Toggle* mode. UDP Example: `panel-set-`

b1-led=FF0000 -> button 1 LED turns red

A.3.3 Fader and Encoder commands

The {id} field denotes the fader (f1 - f2) or encoder (e1).

Command		Argument	Description
Get	{prefix}-get-{id}-value	Integer	Returns the position in the range [0,255].
Set	{prefix}-set-{id}-value	Integer	Sets the position in the range [0,255].

UDP Example: panel-get-e1-value -> returns 85

A.3.4 Events

The *Event* commands notify external systems when physical interactions occur, such as button presses or fader movements. These events can be different per NetPanel, so be sure to verify which NetPanel type you have to see which events it supports.

Command	Argument	Description
{prefix}-{id}/onmousedown	Boolean	True: When finger is placed on the control False: The finger is lifted
{prefix}-{id}-onshort	-	Press and release the button within 1 second.
{prefix}-{id}-onlong	-	Press and hold the button for 1 second.
{prefix}-{id}-onchange	Integer	Integer value from Encoder or Fader.
{prefix}-{id}-onchange	Color	RGB value sent by Encoder. Formatted in hexadecimal RRGGBB
{prefix}-{id}-onchange	Boolean	Buttons return 'True' or 'False'

Appendix B

Certifications

This appendix contains the declarations of conformity and regulatory certifications applicable to the NetPanel.



EU Declaration of Conformity

We, **Visual Productions BV**, as the manufacturer, hereby declare under our sole responsibility that the following device:

Product Name: NetPanel B4
NetPanel E1
NetPanel F2
Product Type: Lighting Controller

complies with the requirements of the following directives and standards:

Applicable Directives:

- 2014/30/EU – Electromagnetic Compatibility (EMC)
- 2011/65/EU (as amended by 2015/863) – Restriction of Hazardous Substances (RoHS)

Applied Harmonised Standards:

- EN 61000-6-1:2019 – Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial, and light-industrial environments
- EN 63000:2018 – Technical documentation for the assessment of electrical and electronic products concerning the restriction of hazardous substances

This declaration is issued under the sole responsibility of the manufacturer, confirming that the object of the declaration complies with the relevant Union harmonisation legislation.

Authorised Representative:

Full name and identification of the person responsible for product quality and compliance with standards on behalf of the manufacturer:

Date: November 20, 2025
Place: Haarlem, The Netherlands



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Managing Director
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COC 54497795

Index

Backing up your data, 21
Backup, 20
Blink, 22
Box contents, 8

CE, 7, 32
Certifications, 30
Copyright, 3

Device Label, 20
Device Management, 20
Device Name, 20
DHCP, 11
Disposal, 8

Factory Defaults, 22
Firmware, 20
Firmware upgrade, 21
Forum, 8

Installing vManager, 22
IP Address, 11, 20

Label, 20
LED, 11

macOS, 22
Management, 20

Name, 20
Network Address, 11
Network Configuration, 20

Reboot, 22
Reset Button, 12
Restore a Backup, 20

Safety precautions, 4
Snap, 23
Static IP, 11
Status LED, 11
Subnet mask, 11

Ubuntu, 22
UKCA, 7
Unpacking, 8

Upgrade, 20

vManager, 11, 20

Windows, 22