VISUAL PRODUCTIONS

NETPANEL MANUAL

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Revision History

Revision	Date	Author(s)	Description
2	30.01.2026	FL	First revision
1	16.01.2026	FL	Initial version

VISUAL PRODUCTIONS

CE

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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Contents

I What's in the box?

In the box you will find:

- the NetPanel with mounting backplate attached
- a quick start guide
- a cat-5 network cable (1m)

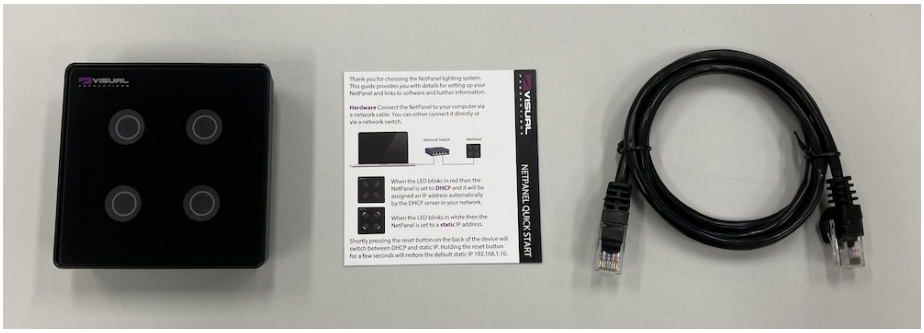

Figure 1: In the Box

II Quickstart

Get up and running quickly in an installation with CueCore3, by following these simple steps:

1. Make sure the NetPanel and a CueCore3 with **firmware 1.32.xx** or later are connected to the same (sub)network.
2. In the web interface of the CueCore3, go to the *Automation* page. Then choose the *Integration* tab on the left. See fig. 2.
3. Drag and drop the detected NetPanel from *Discovered* to *Integrated* devices.
4. Select the device and click 'Edit' to adjust the settings and behaviour.
5. Your NetPanel is now ready for use!

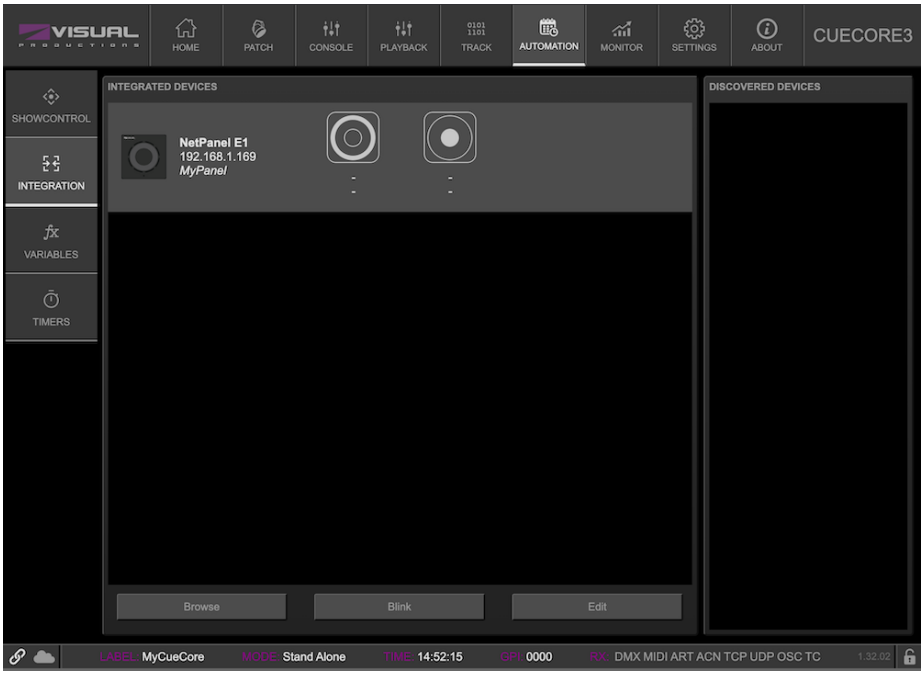

Figure 2: Setting up in CueCore3

Chapter 1

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.

1 Features

All NetPanel variants share the following specifications:

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

2 Variants

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 1.1: 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 1.2: NetPanel E1

NetPanel F2

With two faders, the NetPanel F2 is ideal for intensities and color temperatures. But it also has a place in 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 1.3: NetPanel F2

Chapter 2

Installation

The installation of a NetPanel consists of three steps

1. Installing the physical interface in its location
2. Connecting to a PoE-enabled network
3. Configuring the NetPanel and your system controller for use

1 Hardware

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

2 Power and Network

Power to the NetPanel is provided through the use of Power over Ethernet. It has a power consumption rating of PoE Class I. From the factory, the NetPanel is configured with a Static IP of 192.168.1.10.

A short press on the button on the back of the NetPanel switches the device to DHCP mode, where a server in the network will provide the IP address. When pressing the button, the LEDs on the front of the panel will briefly blink. White for Static IP mode, and red for DHCP mode.

3 Connecting to your system

The NetPanel was designed with versatility in mind. Of course it can be combined with other Visual Productions products, but can just as easily be integrated with third-party controllers. In this section we explain, in short, how to set up the configuration.

CueCore3

To get connected to your setup with CueCore3 (firmware 1.32.XX or later), make sure both your NetPanel and CueCore3 are connected to the same network and subnet. Browse to the web interface of the CueCore3 and choose the *Automation* page. There, in the Integration section, you link them together by dragging the desired NetPanel from 'Detected' to 'Integrated' devices. Select the device and click *Edit* to configure the NetPanel to the needs of your customer. Once 'claimed' by a CueCore3, the device can be detected, but not claimed by other CueCores on the network.

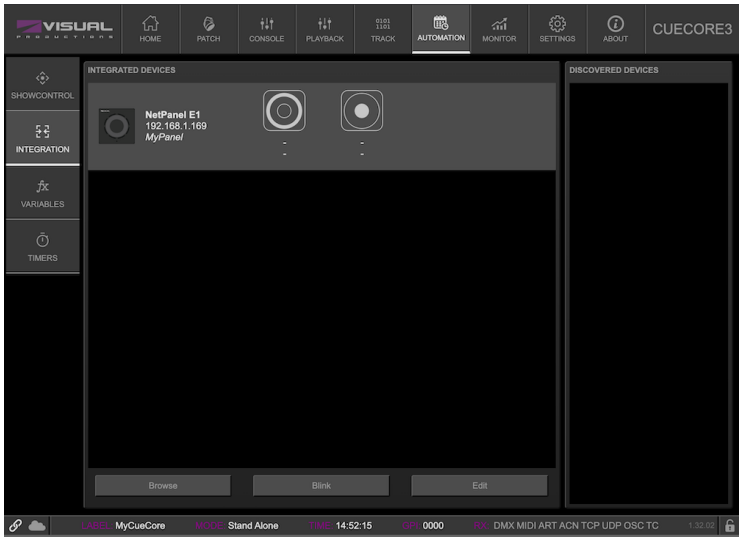

Figure 2.1: Integrating in CueCore3

Third party system

Setting up with other systems, e.g. QSys, Brightsign, requires you to make the correct adjustments to the settings, before using your controller to talk to the NetPanel. For this, go to the NetPanel's web interface in your browser by locating it vManager and the *Browse* button. Alternatively, type its IP address in the address bar. Find the *Settings* page and make the required changes. See page 7 for more information. Some settings can be done through vManager directly, e.g network settings, and label.

The communication is handled using OSC, UDP or TCP messages.

For detailed descriptions of the available messages, see the API section on page 10.

Chapter 3

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.

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: 3.1.

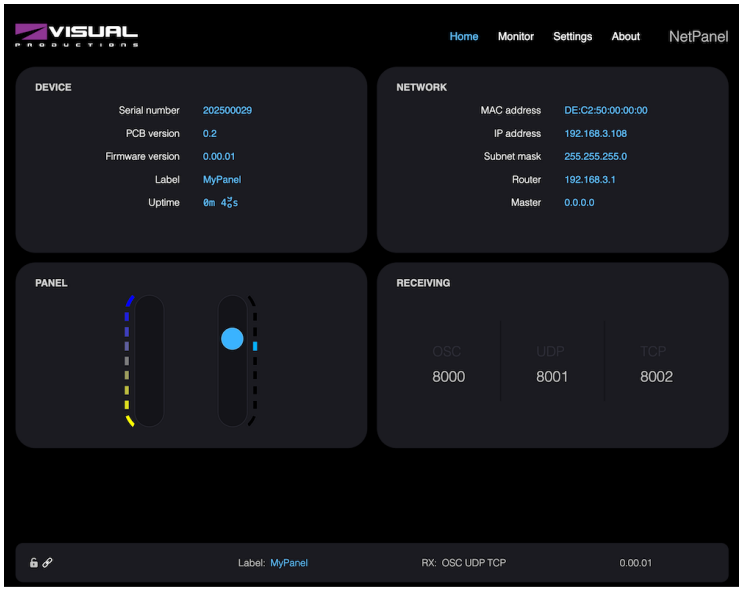

Figure 3.1: *Home* Page

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.

2 Monitor

Here the latest network messages that have been sent and received are shown. Very useful when installing or troubleshooting! Timestamp is referenced from the device's uptime. A message shown in blue represents a valid API message. See page 10 for more API details.

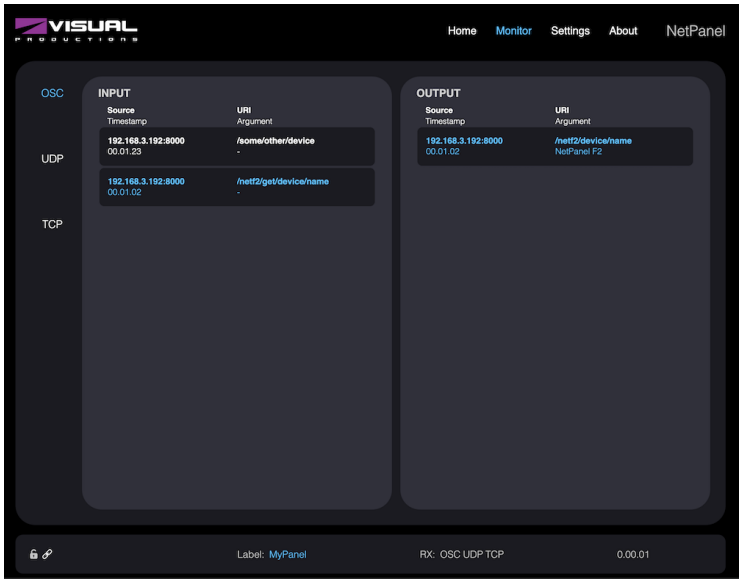

Figure 3.2: *Monitor* Page

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.

3.1 Behaviours

Depending on the NetPanel variant, one or more of the following behaviours 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: 3.3.

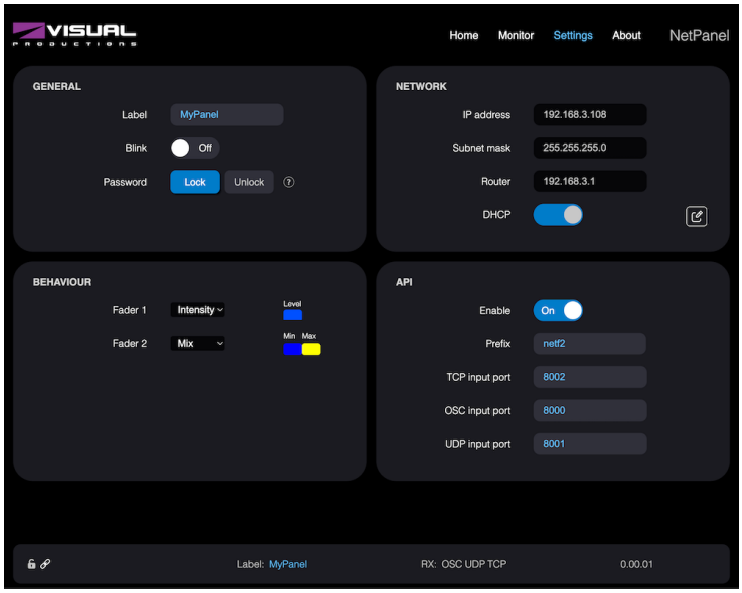

Figure 3.3: *Settings* Page

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: 3.4.

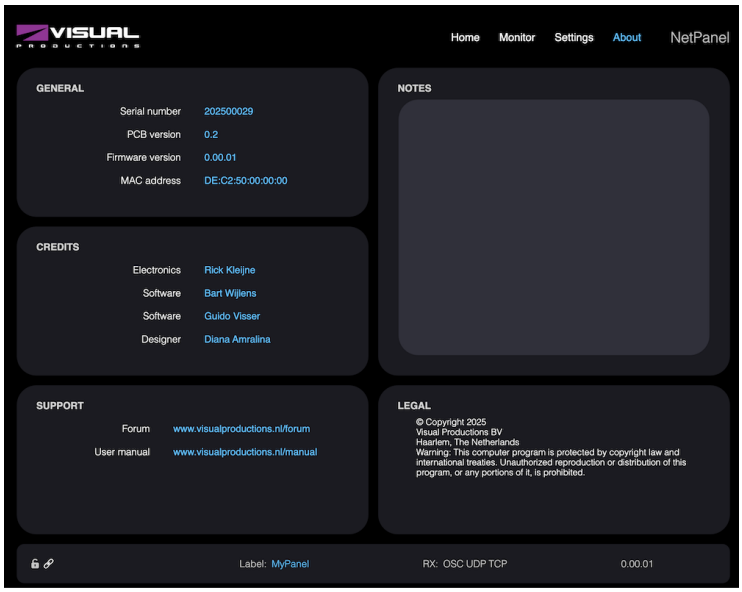

Figure 3.4: *About* Page

Chapter 4

API

1 Overview

This chapter describes the available API commands for the NetPanel devices. The commands are grouped into logical categories. Each section contains a short description and a reference table with URI, type, and value.

In general, the commands can be grouped into *get* and *set* variants. The get variant will receive the current configured setting from the device. The set variant will transmit a new setting to the device for it to be configured. Some commands can only be used with get commands. This will be shown in the tables in the respective sections.

The commands will have the following structure:

get:

`{API Prefix}/get/{URI Definition}`

and set:

`{API Prefix}/set/{URI Definition}={value}`

The API prefix can be found and changed on the *Settings* page. See page 7

Note that for OSC commands, there is a compulsory leading '/' before the API prefix. For UDP and TCP the dividing forward slash '/' is replaced with a hyphen or minus character '-'.

The NetPanel remembers the last 4 IP addresses that have sent correct API messages. And automatically sends its changes and notifications to those addresses.

2 OSC

Device

Description

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

URI	GET	SET	Argument	Description
/device/name	X		String	Returns the device name: "NetPanel B4", "NetPanel E1" or "NetPanel F2"
/device/uptime	X		String	Returns the uptime in: "hh mm", "dd hh" or "yy dd". E.g. 1d 4h, 250d 23h or 1y 360d
/device/blink		X X	- Boolean	The device will blink for 5 seconds. Sets the blink value: 'on' or 'off'.

Examples of device command

Assuming API prefix is set to the default value 'panel'.

Sent	Received
/panel/get/device/uptime	/panel/device/uptime 43m 31s
/panel/set/device/blink on	/panel/device/blink on

Input

Description

The input section of the API is used to configure the different sections of each NetPanel. The following settings are available for the different types:

URI	GET	SET	Argument	Description
/e1/value /fa/value /f2/value	X	X	Integer	Returns or sets an integer between the configured minimum and maximum values. When set, the value will be represented on the display.
/b1/value /b2/value /b3/value /b4/value	X	X	Boolean	Returns a boolean which indicates the value of the button. A button element can have a toggle function by configuring the Behavior through the web interface. A SET command will also work to configure the value
/b1/led /b2/led /b3/led /b4/led	X	X	color	Set color of an LED.

Examples of input commands

The below examples can be used to retrieve specific settings for the LEDs and inputs. Assuming API prefix is set to the default value 'panel'.

Sent	Received
/panel/get/e1/value	/panel/e1/value 85
/panel/set/b1/led #FF0000	button 1 indicator turns red

2.1 Events

Description

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

3 UDP and TCP

Device

Description

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

URI	GET	SET	Argument	Description
device-name	X		String	Returns the device name: "NetPanel B4", "NetPanel E1" or "NetPanel F2"
device-uptime	X		String	Returns the uptime in: "hh mm", "dd hh" or "yy dd". E.g. 1d 4h, 250d 23h or 1y 360d
device-blink		X X	- Boolean	The device will blink for 5 seconds. Sets the blink value: 'on' or 'off'.

Examples of device command

Assuming API prefix is set to the default value 'panel'.

Sent	Received
panel-get-device-uptime	panel-device-uptime 43m 31s
panel-set-device-blink on	panel-device-blink on

Input

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The input section of the API is used to configure the different sections of each NetPanel. The following settings are available for the different types:

URI	GET	SET	Argument	Description
e1-value fa-value f2-value	X	X	Integer	Returns or sets an integer between the configured minimum and maximum values. When set, the value will be represented on the display.
b1-value b2-value b3-value b4-value	X	X	Boolean	Returns a boolean which indicates the value of the button. A button element can have a toggle function by configuring the Behavior through the web interface. A SET command will also work to configure the value
b1-led b2-led b3-led b4-led	X	X	color	Set color of an LED.

Examples of input commands

The below examples can be used to set and retrieve specific settings for the LEDs and inputs. Assuming API prefix is set to the default value 'panel'.

Sent	Received
panel-get-e1-value	panel-e1-value 85
panel-set-b1-led #FF0000	button 1 indicator turns red

3.1 Events

Description

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
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