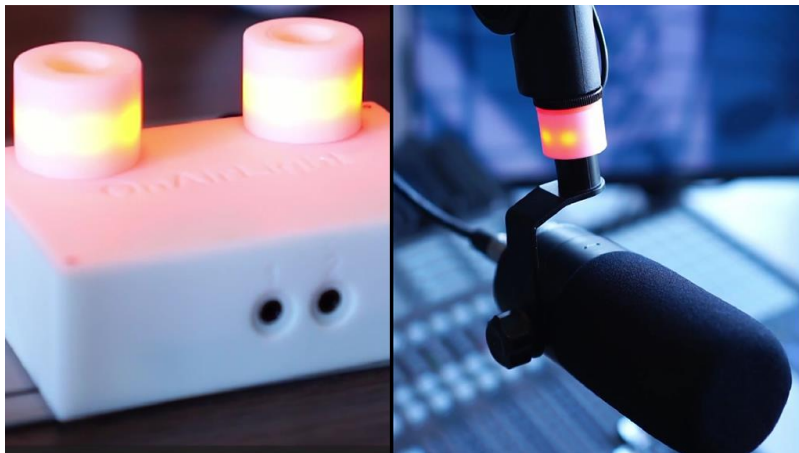


Introduction

The OnAirLight V4 is a Wifi connected on-air light controller.

It can be used stand-alone with GPIO, Midi over USB or integrated with broadcast systems over Livewire+ and RTP-Midi, while being fully configured via a built-in web interface.

This manual explains all available functions and configuration options, as seen in the web interface.





Device Overview

Multi-color LED “on-air” lights indicating microphone or studio state.

Four primary light channels (Light 1–4) and one Telco channel.

Multiple control modes:

Stand-alone GPIO mode. (Hardwired to outputs of the broadcast system)

MIDI mode. (Midi via USB, use of Midi hub recommended)

Livewire+ mode. (Tellos Alliance, Axia systems)

RTP-Midi

Configuration:

Built-in web server for configuration and monitoring.

Power-Up & First Use

The V4 Controlbox behaves as Access Point (AP) on first startup, if no networked functions are needed ex. Connection via GPIO, you do not need to connect the controlbox to your wifi network.

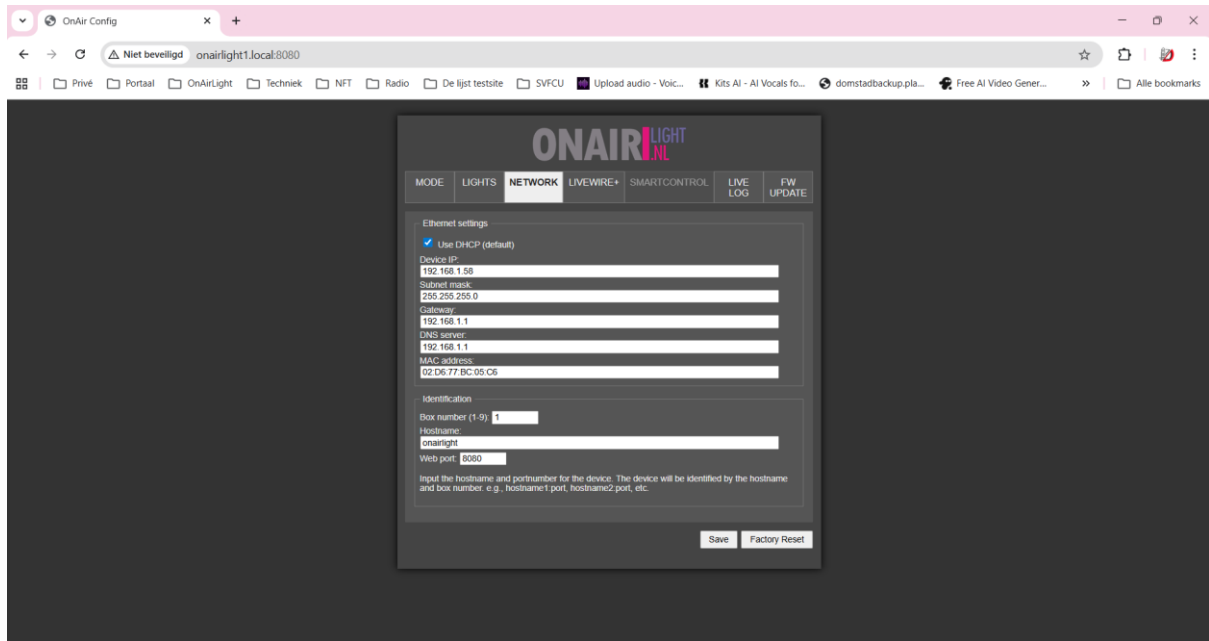
1. Connect your computer to the ONAIRLIGHT_AP -> search networks -> connect to network, the Password is: ONAIRAP26
2. Open the web-interface: <http://192.168.4.1:8080>

Alternatively, you can now set the Wifi settings in the network tab on the web-interface to connect to your own network, it's recommended to set a static IP or configure it in your router, that way the controlbox is always reachable through its known IP Address.

If the connection to your own wifi network fails ex. Wrong password, the controlbox will automatically start in AP mode so you never lose control.

If your router supports DDNS, your controlbox will be reachable through
<http://onairlight1.local:8080>

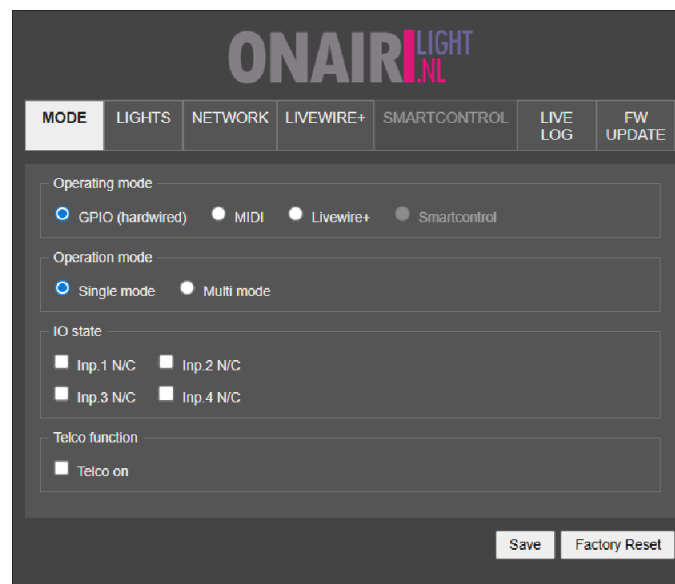
The Web Interface



The web interface is divided into several tabs:

MODE | LIGHTS | NETWORK | LIVEWIRE+ | SMARTCONTROL | LIVE LOG | FW UPDATE

You navigate between them by clicking the tab headers at the top of the page.



MODE Tab – Operating Mode and I/O

In this tab, the operation mode is set.

The screenshot shows the 'MODE' tab selected in the top navigation bar. The interface is dark-themed. Below the navigation bar, there are several sections for configuration:

- Operating mode:** Four radio buttons are present: 'GPIO (hardwired)' (selected), 'MIDI', 'Livewire+', and 'Smartcontrol'.
- Operation mode:** Two radio buttons: 'Single mode' (selected) and 'Multi mode'.
- IO state:** Four checkboxes for 'Inp.1 N/C', 'Inp.2 N/C', 'Inp.3 N/C', and 'Inp.4 N/C', all of which are currently unchecked.
- Telco function:** One checkbox for 'Telco on', which is currently unchecked.

At the bottom right of the form, there are two buttons: 'Save' and 'Factory Reset'.

Operating Mode

GPIO = Hard wired IO

Lights are driven by local GPIO contacts on the device (controlling inputs/relays on the broadcast system).

MIDI mode

Lights follow MIDI messages received over USB (e.g. from a DAW or mixer interface or playout software; Virtual midi ports can be needed).

Livewire+ mode (connect the device via TCP/IP to a Livewire+ server or node)

Lights follow GPO state from a Livewire+ system via network.

SmartControl mode (or any other RTP-MIDI/Apple MIDI system)

Lights follow predefined events from a SmartControl or RTP-MIDI server.

Single vs Multi mode

Single mode

All the lights are following the first input, in any mode.

Multi-mode

All lights can be controlled independently (e.g. multiple microphones).

Telco option

Enables or disables special telco behavior (phone line indicator).

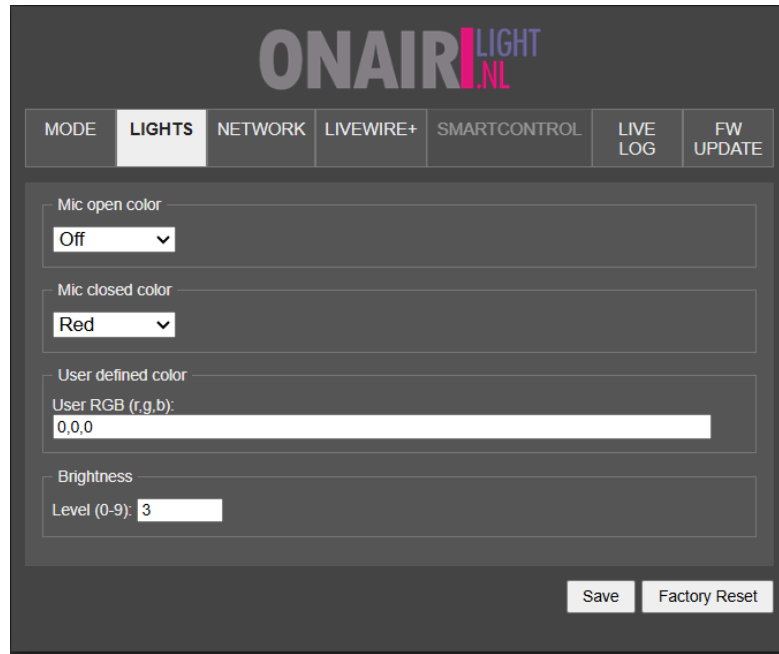
When enabled, the Telco light channel is available in the LIGHTS and LIVEWIRE tabs.

Contact polarity / NC options

Several checkboxes to control input polarity (standard expected normally open contacts or input high messages).

Adjust these to match your studio's wiring, so the on-air state matches your console behavior.

LIGHTS Tab – Colors and Brightness



The screenshot shows the ONAIRLIGHT.NL web interface with the 'LIGHTS' tab selected. The interface has a dark grey background with white text. At the top, there is a navigation bar with tabs: MODE, LIGHTS (highlighted), NETWORK, LIVEWIRE+, SMARTCONTROL, LIVE LOG, and FW UPDATE. Below the navigation bar, the 'LIGHTS' configuration section is visible. It contains four main settings:

- Mic open color:** A dropdown menu currently set to 'Off'.
- Mic closed color:** A dropdown menu currently set to 'Red'.
- User defined color:** A section with the label 'User RGB (r,g,b):' and a text input field containing '0,0,0'.
- Brightness:** A section with the label 'Level (0-9):' and a text input field containing '3'.

At the bottom right of the configuration section, there are two buttons: 'Save' and 'Factory Reset'.

This tab defines how the LEDs light-up in different microphone states.

Mic open color

The color used when a microphone or channel is active ON/AIR.

Mic closed color

The color used when a microphone or channel is inactive OFF/AIR.

User defined color

Enter custom RGB values, for example: 128,0,255.

This is used when “User Color” is selected in the open/closed color options.

Brightness

Level (0–9)

Sets overall LED brightness. 0 = dimmest, 9 = brightest.

Useful to match the brightness to your studio environment (default = 3)

NETWORK Tab – Ethernet & Identification

ONAIRLIGHT.NL

MODE LIGHTS **NETWORK** LIVEWIRE+ SMARTCONTROL LIVE LOG FW UPDATE

Ethernet settings

☒ Use DHCP (default)

Device IP: 192.168.1.58

Subnet mask: 255.255.255.0

Gateway: 192.168.1.1

DNS server: 192.168.1.1

MAC address: 02:D6:77:BC:05:C6

Identification

Box number (1-9): 1

Hostname: onairlight

Web port: 8080

Input the hostname and portnumber for the device. The device will be identified by the hostname and box number. e.g., hostname1.port, hostname2.port, etc.

Save Factory Reset

This tab controls how the device appears on the network and how you access the web interface.

Ethernet settings:

Use DHCP (default)

When checked:

The device requests IP, subnet, gateway, and DNS from your DHCP server.

The IP fields below are read-only and show the obtained actual values granted.

When unchecked:

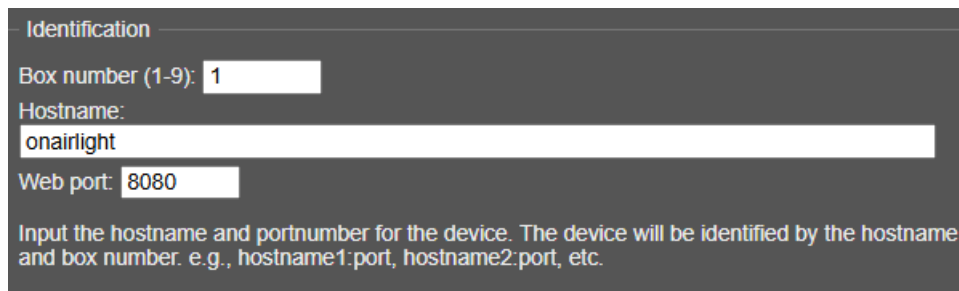
You can manually enter all network details.

MAC address

Read-only hardware MAC address of the device's Ethernet interface.

Useful for DHCP reservations or network inventory.

Identification

A screenshot of a web form titled "Identification" on a dark background. The form contains three input fields: "Box number (1-9):" with the value "1", "Hostname:" with the value "onairlight", and "Web port:" with the value "8080". Below the fields is a text instruction: "Input the hostname and portnumber for the device. The device will be identified by the hostname and box number. e.g., hostname1:port, hostname2:port, etc."

Box number

A total of 9 OnAirLight devices can be used in one network; this number identifies which device it is and can be set.

It is combined with the hostname, so identification is simple.

Hostname

Base hostname for your device.

Combined with the box number to form the actual network name.

Avoid spaces or special characters (letters and digits are safest).

Example:

Hostname: onairlight

Box number: 3

Effective name: onairlight3

DNS name: onairlight3.local

Web port

TCP port used by the built-in webserver.

The default is 8080.

If you change this, remember to include it in the URL:

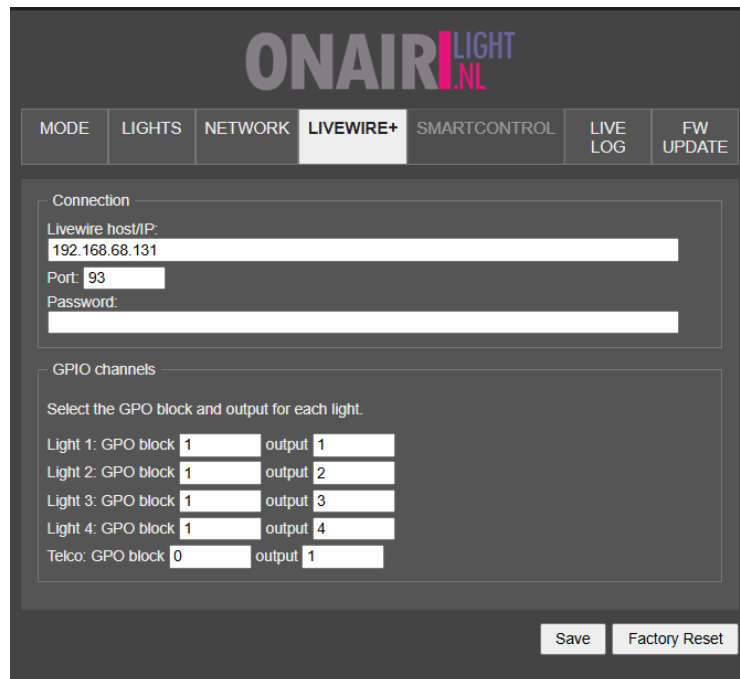
Example: <http://onairlight3.local:8090/>

Effective network name (concept)

You can use the Network tab to change the hostname, box number, or web port at any time. After saving, refresh using the new URL.

Livewire+ Integration

Use this tab if you want the device to follow GPO from a Livewire+ system.



The screenshot shows the ONAIRLIGHT.NL web interface with the 'LIVEWIRE+' tab selected. The interface includes a navigation bar with tabs: MODE, LIGHTS, NETWORK, LIVEWIRE+, SMARTCONTROL, LIVE LOG, and FW UPDATE. The main content area is divided into two sections: 'Connection' and 'GPIO channels'. The 'Connection' section has fields for 'Livewire host/IP' (192.168.68.131), 'Port' (93), and 'Password'. The 'GPIO channels' section has a heading 'Select the GPO block and output for each light.' and a table with five rows: Light 1, Light 2, Light 3, Light 4, and Telco. Each row has two columns: 'GPO block' and 'output'. The 'Save' and 'Factory Reset' buttons are at the bottom right.

Connection		
Livewire host/IP:	192.168.68.131	
Port:	93	
Password:		

GPIO channels		
Select the GPO block and output for each light.		
Light 1: GPO block	1	output 1
Light 2: GPO block	1	output 2
Light 3: GPO block	1	output 3
Light 4: GPO block	1	output 4
Telco: GPO block	0	output 1

Save Factory Reset

Connection

There will be a green dot if the connection is established.

Livewire host/IP

IP address or hostname of your Livewire+ node (e.g. your console or GPIO node).

Port

TCP/IP port used to talk to the Livewire+ system.

Default is 93 but follow your system documentation.

Password (optional)

Password for the Livewire+ node, if required.

Leave empty if your node does not require authentication.

GPIO channels

These map individual lights on the device to Livewire+ GPO blocks and outputs.

For each light:

Light 1: GPO block / output (in single mode only this GPO is used)

Light 2: GPO block / output

Light 3: GPO block / output

Light 4: GPO block / output

Telco: GPO block / output

For each you configure:

GPO block

The Livewire+ GPO block number you want to subscribe to.

Output

The specific output (1–5) within that GPO block.

When a configured GPO output is active, the corresponding light will switch to the “mic open” color; when inactive, it will show the “mic closed” color.

SMARTCONTROL Tab – SmartControl Integration

Use this tab to integrate with a SmartControl system (for example, for more advanced or centralised tally control).

The screenshot shows the ONAIRLIGHT.NL web interface with the SMARTCONTROL tab selected. The interface includes a navigation bar with tabs: MODE, LIGHTS, NETWORK, LIVEWIRE+, SMARTCONTROL (active), LIVE LOG, and FW UPDATE. The main content area is titled 'Smartcontrol' and contains a message: 'Smartcontrol not available yet. Please wait for future updates.' Below this, there is a 'Target' section with a 'Smartcontrol host/IP:' label and a text input field containing '0.0.0.0'. Next to it is a 'Port:' label and a text input field containing '1'. Below the 'Target' section is a 'MIDI channel' section with a 'Channel (1-16):' label and a text input field containing '1'. A note below the MIDI channel input states: 'This is the MIDI channel used when sending notes to Smartcontrol.' At the bottom right of the form are two buttons: 'Save' and 'Factory Reset'.

Smartcontrol host/IP

IP address or hostname of the SmartControl server.

Port

Network port used by SmartControl for control messages (default: 5004, unless your system specifies otherwise).

MIDI Channel (1–16)

The MIDI channel that this device should follow (default is 1)

The HEX MIDI messages the device listens to are:

90 01 46 – Light 1 on, 90 01 00 – Light 1 Off

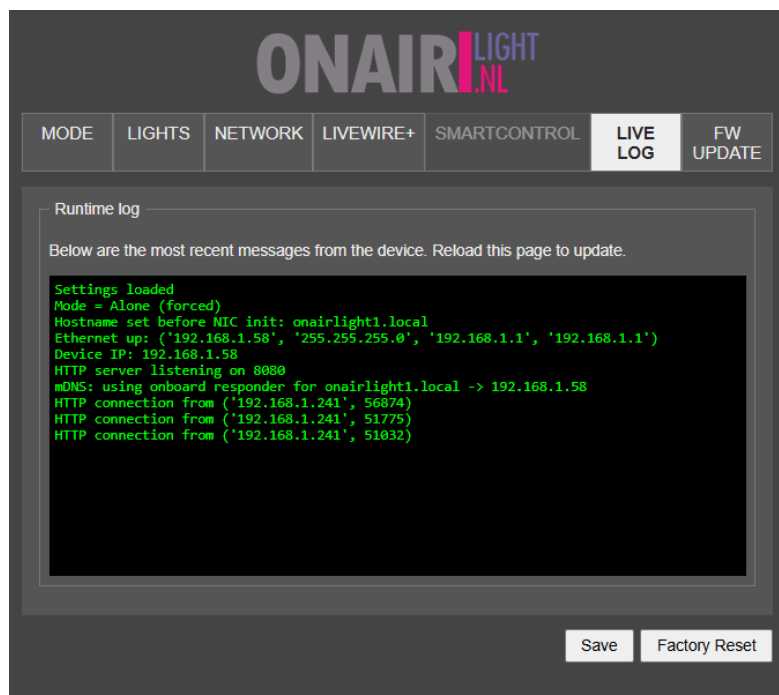
90 02 46 – Light 1 on, 90 02 00 – Light 2 Off

90 03 46 – Light 1 on, 90 03 00 – Light 3 Off

90 04 46 – Light 1 on, 90 04 00 – Light 4 Off

LIVE LOG Tab – Diagnostics

The Live Log tab shows a rolling log of recent events, useful for diagnostics.

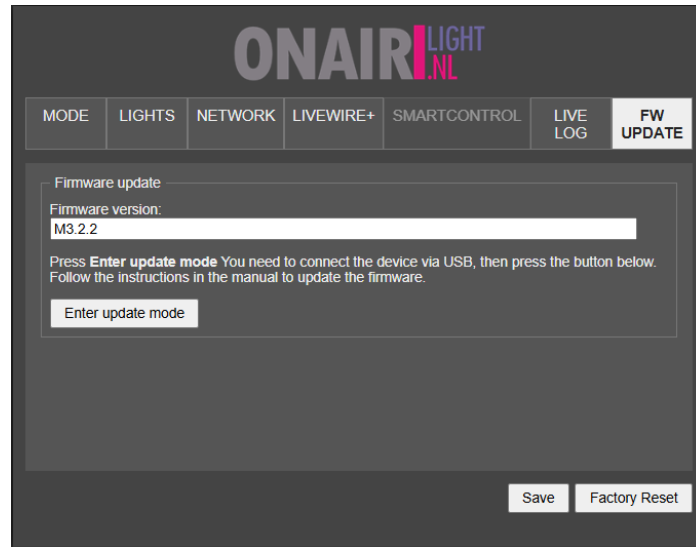


Examples of log messages

These messages can be important when troubleshooting and/or with any service request.

FW UPDATE Tab – Firmware Update & Maintenance

This tab is used for firmware maintenance tasks.



Typical function:

Update the firmware.

Only if you have received a firmware update file from your vendor or directly from OnAirLight after sales services, can you use the update function.

The update file comes with explicit instructions which need to be followed step by step. Each update will have its own version number and will be visible after a successful update.

Saving Changes & Applying Configuration

Across all tabs:

After modifying your desired settings, click the Save button.

The device:

Validates entries and saves them to its internal configuration.

The device will reboot the device, so all new settings can be loaded.

Factory Default

If you need to return the device to its default configuration:

Use the Factory Defaults option in the interface.

This restores all settings (mode, lights, network, Livewire, SmartControl) back to their shipped values.

After restoring defaults:

The device will reboot.

Troubleshooting

I can't reach the web interface



Check that the device has is connected to Wifi or your computer is connected to the OnAirLight AP

Confirm the URL:

Correct hostname + box number + port, e.g. <http://onairlight1.local:8080/>.

Try using the raw IP: check your router/DHCP client list and locate onairlight and identify its IP then browse to <http://<IP>:8080/>.

Ensure your computer is on the same subnet, and no firewall is blocking the ports.

Hostname or box number changed and I lost access

Use the Live Log tab (if still reachable) to see the new hostname.

Otherwise, check the DHCP client list on your router for the new name.

If needed, restore factory defaults and use the default hostname/box number.

Livewire+ / SmartControl status doesn't change the lights

Verify the MODE tab:

Ensure that the correct mode (Livewire+ or SmartControl) is selected.

Check host/IP and port on the relevant tab.

Confirm that GPO blocks/outputs (Livewire+) or channel (SmartControl) are correct.

Look at the LIVE LOG tab for any connection or error messages.

Lights are inverted (ON when they should be OFF)

Adjust the NC/NO or polarity options on the MODE tab.