



1. Safety & Mounting

- **Location:** Mount the MICNODE 4E under the studio desk or inside a cable tray.
 - **Environment:** Ensure a dry, ventilated indoor environment (0–40°C).
 - **Cleaning:** The enclosure is finished with a protective UV-blocking matte coating. Clean exclusively using a dry or slightly damp microfiber cloth. Do not use harsh solvents or chemicals.
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2. Hardware Setup & Physical Connections

Step 1: Connecting M!KA Microphone Arms (Phoenix Blocks)

The MICNODE 4E features 4 independent ports with external screw terminals. The Yellowtec m!ka OnAir LED ring operates on a 12V polarity-switching principle (Red / White).

1. Strip the two wire strands of the m!ka LED cable (approx. 5mm).
2. Insert the wire pairs into the external terminals of **Ports 1 to 4** and tighten the screws firmly.
3. Pay close attention to the **+/- markings** labeled on each individual port.
4. *Troubleshooting wire inversion:* If the lights appear inverted (e.g., ON when they should be OFF), you can simply adjust the input polarity options inside the LiveWire+ or Ember+ web tab, or physically switch the +/- wiring on the external connectors.

Step 2: Power & Network

Choose **one** of the following two power methods:

- **Option A (PoE):** Connect an RJ45 network cable from your PoE switch using a suitable network connection. Ensure your network infrastructure supports a minimum of **35 Watts**.
 - **Option B (DC Power):** If you do not use PoE, connect a certified **12V 2A power source** to the external DC terminals (+ and –) or plug it into the dedicated DC jack located on the network port side.
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3. Network Configuration & First Use

First Login (DHCP Mode)

By default, the device automatically attempts to obtain an IP address via DHCP upon power-up.

1. Connect the MICNODE 4E to your studio network.
2. Open a web browser on a computer connected to the same network and navigate to: <http://onairlight1.local>.
3. *Alternative method:* Open a CMD window on your computer, type ping onairlight1.local to obtain its IPv4 address, and then browse to http://<DEVICE_IP>:8080/.

Direct Connection (Stand-alone Setup)

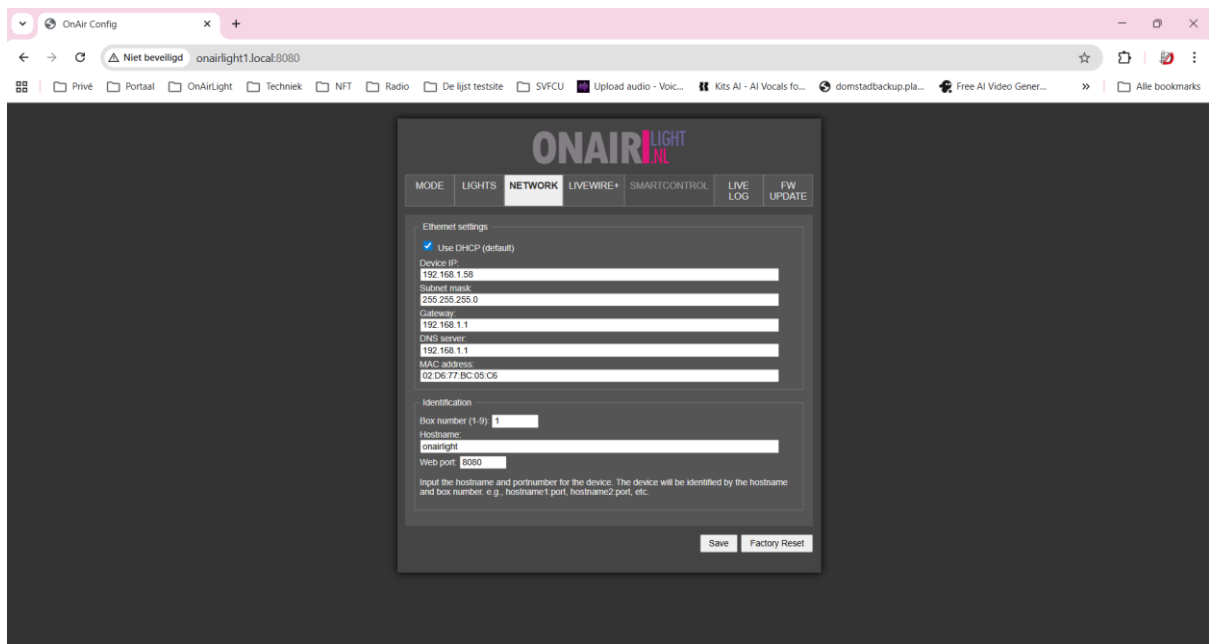
If no DHCP server is available on your network, you can connect the control box directly to your computer:

1. Configure your computer's local ethernet adapter to IP address 192.168.1.xxx (e.g., 192.168.1.10) with subnet mask 255.255.255.0.
2. Connect an external 12V 2A power supply to the unit.
3. Open your browser and access the internal web server at: <http://192.168.1.100:8080>.

Fixed IP Setup (Recommended for Digital Studios)

1. In the web interface, navigate to the NETWORK tab.
 2. Uncheck Use DHCP (default).
 3. Manually enter your custom Device IP, Subnet mask, and Gateway.
 4. Adjust the Hostname or Box number (1-9) if required (up to 9 OnAirLight boxes can operate simultaneously in one network).
 5. Click Save and reboot.
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The Web Interface



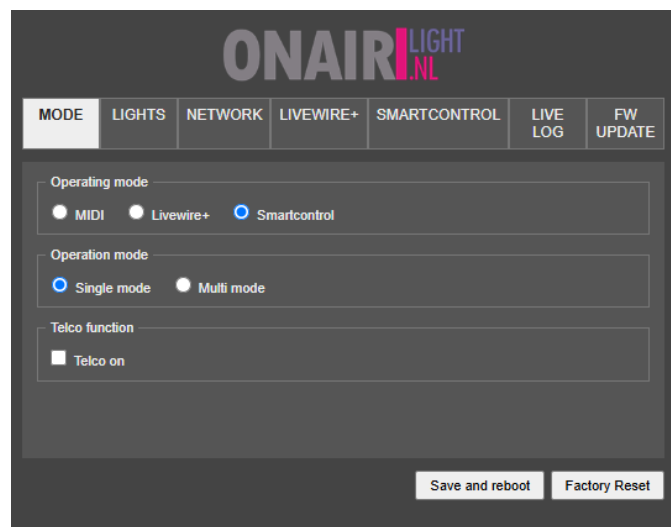
The web interface is divided into several tabs:

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

In this tab, the operation mode is set.



Operating Mode

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).

Depending on ordered version:

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

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

and

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

Lights follow predefined events from a RTP-MIDI server.

Single vs Multi mode

Single mode

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

Multi-mode

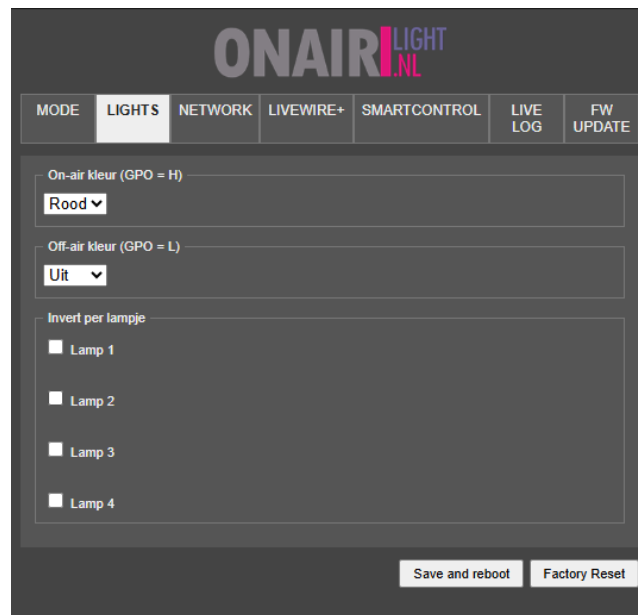
All lights can be controlled independently (e.g. multiple microphones).

Telco option

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

When enabled, the Telco light channel is available in the Livewire+ and Ember+ tabs.

LIGHTS Tab – Colors and Polarity



The screenshot shows the 'LIGHTS' configuration tab in the ONAIRLIGHT.NL interface. At the top, there is a navigation bar with tabs: MODE, LIGHTS (selected), NETWORK, LIVEWIRE+, SMARTCONTROL, LIVE LOG, and FW UPDATE. Below the navigation bar, the 'On-air kleur (GPO = H)' section has a dropdown menu set to 'Rood'. The 'Off-air kleur (GPO = L)' section has a dropdown menu set to 'Uit'. Below these, the 'Invert per lampje' section contains four checkboxes labeled 'Lamp 1', 'Lamp 2', 'Lamp 3', and 'Lamp 4', all of which are currently unchecked. At the bottom right of the configuration area, there are two buttons: 'Save and reboot' and 'Factory Reset'.

This tab defines how the LEDs look in different microphone states.

OnAir color (Red/White/Off)

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

Off Air color (Red/White/Off)

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

NETWORK Tab – Ethernet & Identification

The screenshot shows the 'NETWORK' tab selected in the top navigation bar. The interface is divided into two main sections: 'Ethernet settings' and 'Identification'.

Ethernet settings:

- ☒ Use DHCP (default)
- Device IP: 192 . 168 . 1 . 52
- Subnet mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 1 . 1
- DNS server: 192 . 168 . 1 . 1
- MAC address: 02:46:1E:A3:18:7A

Identification:

- Box number (1-9): 3
- 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.

Buttons at the bottom: Save and reboot, 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:

The screenshot shows the 'Identification' section with the following fields:

- 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.

**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:

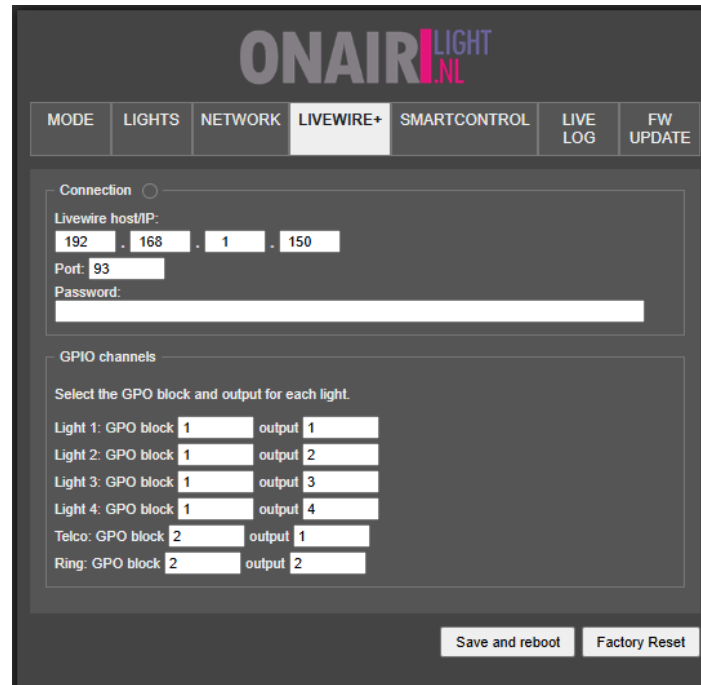
Example: <http://onairlight3.local:8090/>

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 ONAIR LIGHT .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 'LIVEWIRE+' tab is active, displaying a 'Connection' section with a radio button, a 'Livewire host/IP:' field with a dotted IP address (192.168.1.150), a 'Port:' field (93), and a 'Password:' field. Below this is a 'GPIO channels' section with the instruction 'Select the GPO block and output for each light.' and a table for configuring four lights and two other channels (Telco and Ring).

Channel	GPO block	output
Light 1	1	1
Light 2	1	2
Light 3	1	3
Light 4	1	4
Telco	2	1
Ring	2	2

Buttons at the bottom: Save and reboot, Factory Reset.

Connection

A green dot will appear on connection

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

Ring: 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 “On Air” color; when inactive, it will show the “Off Air” color.

SMARTCONTROL Tab – RTP Midi Integration

Use this tab to integrate with RTP-Midi (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 are three input fields: 'Target' (Smartcontrol host/IP: 0.0.0.0), 'Port' (1), and 'MIDI channel' (Channel (1-16): 1). A note states: 'This is the MIDI channel used when sending notes to Smartcontrol.' At the bottom right, there are 'Save' and 'Factory Reset' buttons.

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 2 on, 90 02 00 – Light 2 Off

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

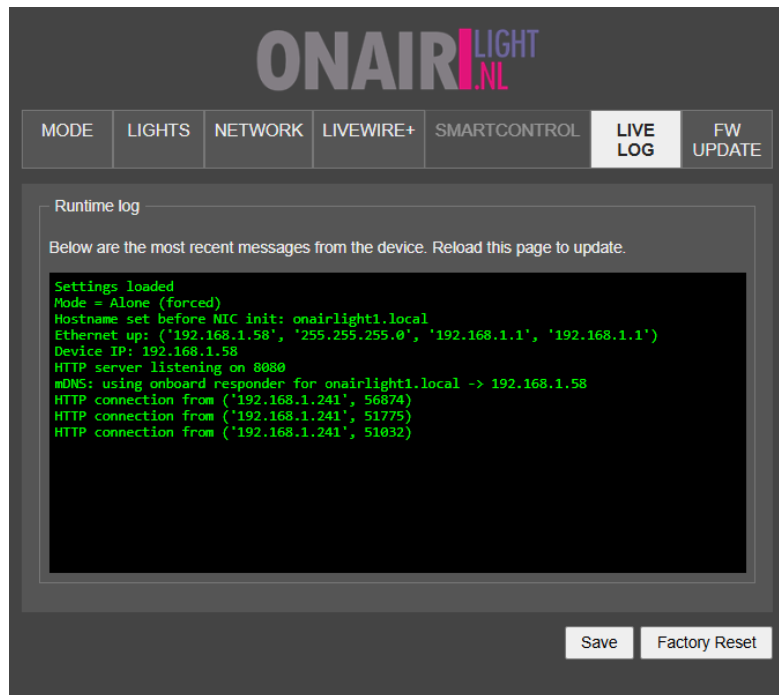
90 04 46 – Light 4 on, 90 04 00 – Light 4 Off

90 05 46 – Telco on, 90 05 00 – Telco Off

90 06 46 – Ring on, 90 06 00 – Ring Off

LIVE LOG Tab – Diagnostics

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

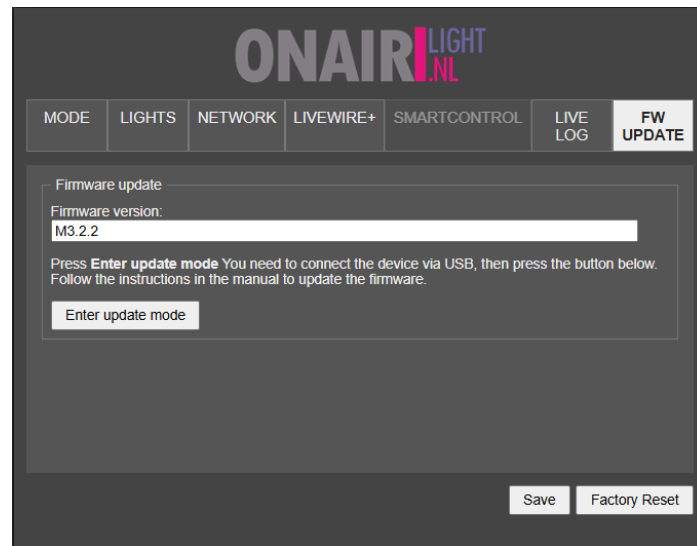


Examples of log messages

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.



The screenshot shows the ONAIRLIGHT.NL web interface with the 'FW UPDATE' 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 titled 'Firmware update' and contains a 'Firmware version:' label with a text input field showing 'M3.2.2'. Below this, there is a paragraph of instructions: 'Press **Enter update mode** You need to connect the device via USB, then press the button below. Follow the instructions in the manual to update the firmware.' A button labeled 'Enter update mode' is positioned below the instructions. At the bottom right of the interface, there are two buttons: 'Save' and 'Factory Reset'.

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 memory.

The device will reboot the device, so all new settings will 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, Ember+, SmartControl) back to their shipped values.

After restoring defaults:

The device needs a reboot after you load default settings (power off and on).

Troubleshooting:

I can't reach the web interface

Check that the device has a link on the Ethernet port (link LED on switch).

Confirm the URL:

Correct hostname + box number + port, e.g. <http://onair3.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.

Or you can connect directly to your computer (192.168.1.100) and open the webUI with its temporary IP address. (always store the IP address and MAC address)

Livewire+ / SmartControl status doesn't change the lights

Verify the MODE tab:

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

Confirm the connection indicator is green (WebUI)

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 Inputs polarity options on the LiveWire+ or Ember+ tab.

Or just switch the +/- wiring on the external connectors.