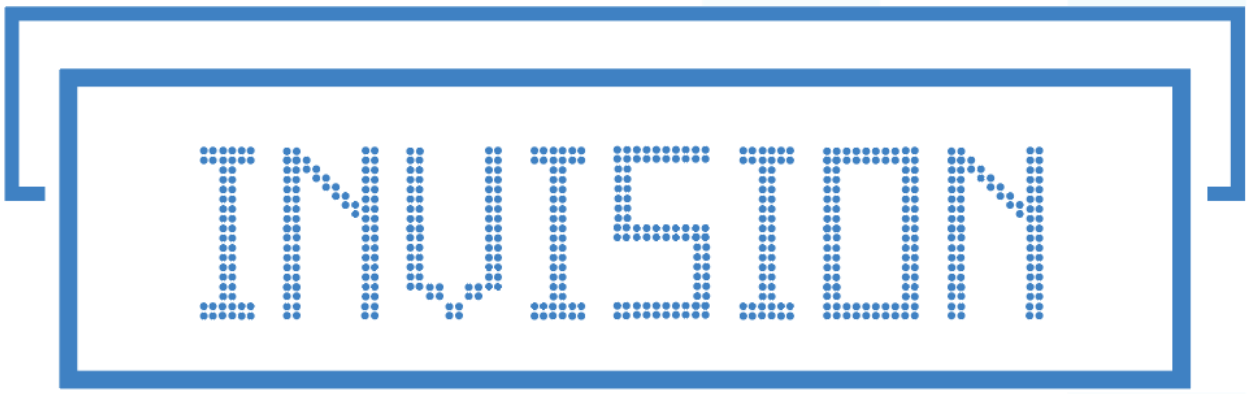
incosa SOLUTIONS

indic group

Manual

inVision

Firmware version: 0.1.0

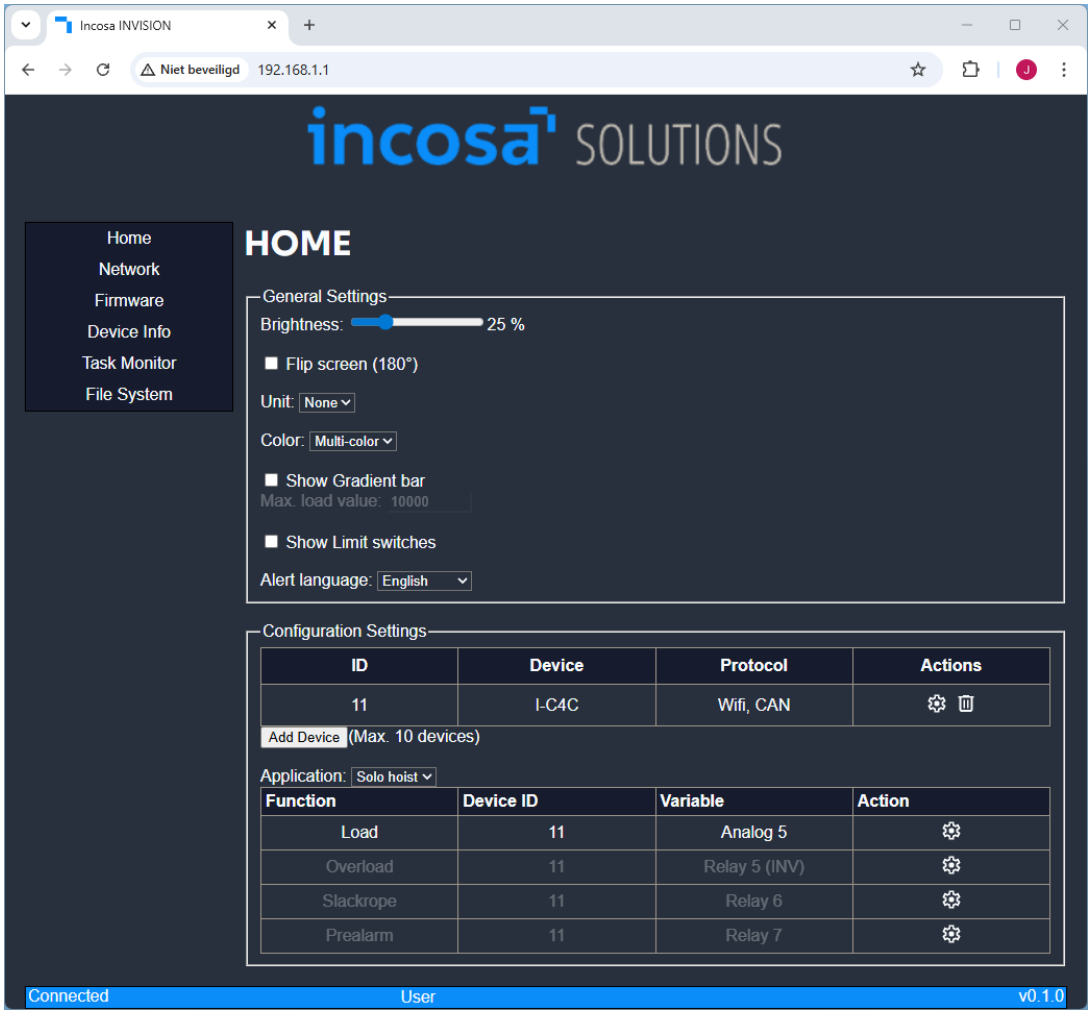


Inhoud

Connect to webpage

1. Connect to the SSID of the InVision display:
    a. The network name consists of "**INV_**" + "**Serial number**"
    b. Contact your supplier for the password

2. Open an webpage and go to **192.168.1.1**



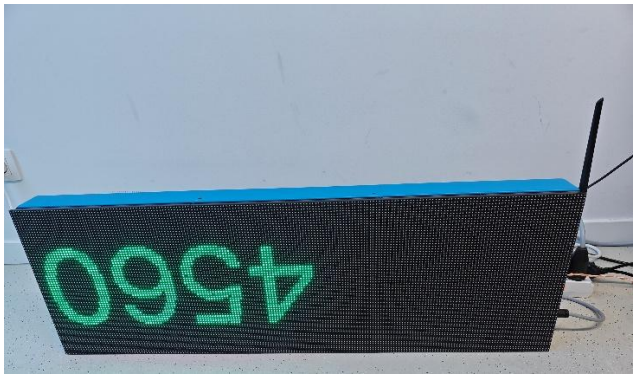
General Settings

Brightness

Move the slider to increase/decrease the brightness of the LEDs.

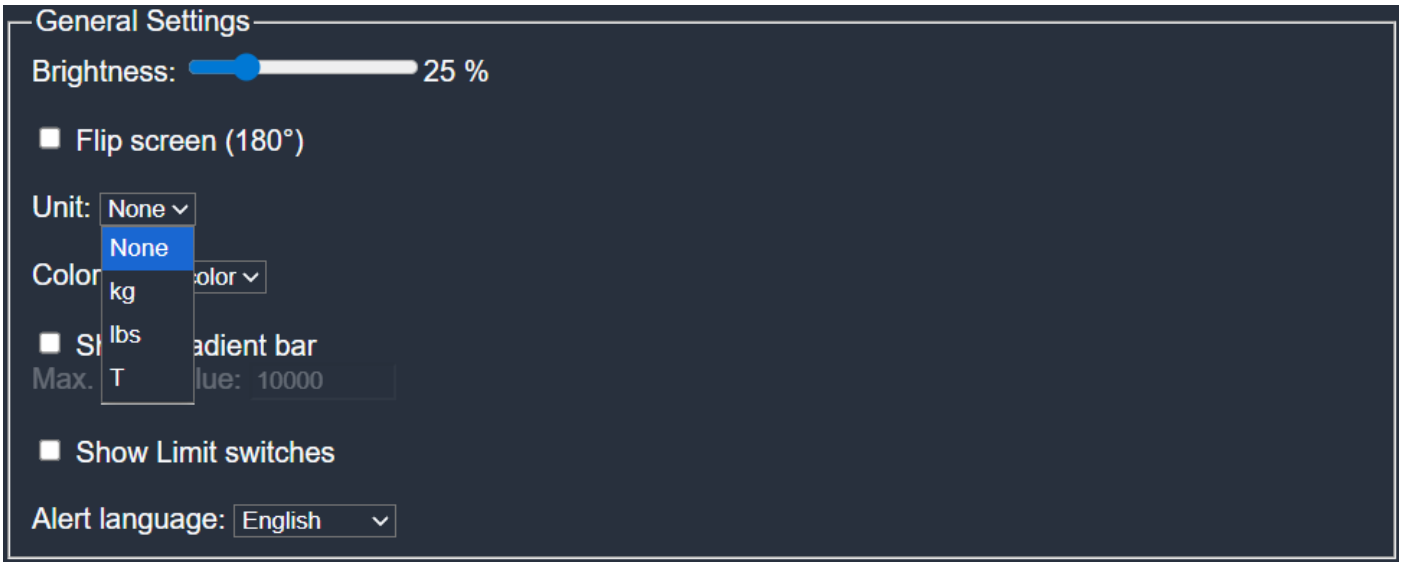
Flip screen (180°)

Activate/deactivate the selection box to flip the content on the display 180°. This can be useful whenever a display, for practical reasons, needs to be mounted upside down.



Unit

Use the dropdown menu to display the unit next to the load. It does not convert the load to the unit. It only adds the reference next to the load.

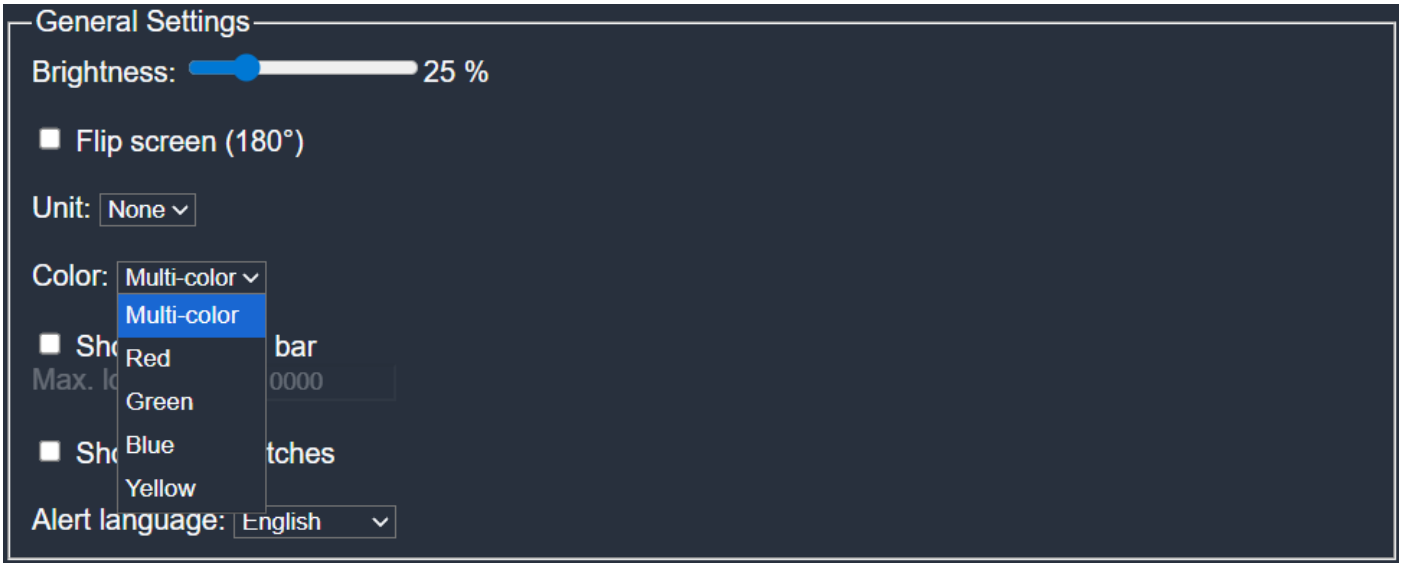


Color

The inVision display uses by default multi-color to show different states:

- Yellow: Slackrope / prealarm
- Green: Normal
- Red: Overload

By changing this menu to a specific color, the load will be handled in that color only.



Show Gradient bar

Add a gradient bar on top of the screen. The max load value, scales the gradient bar depending on the lifted load. E.g. If the max load value is set to 10000, the gradient bar will be full when 10000 load is shown on the display.

Show Limit switches

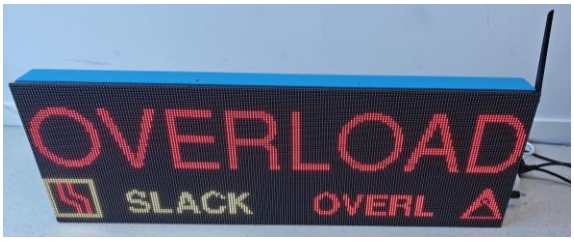
Show/hide the limit switch states for hoist, trolley and crane movement. The limit switches are represented by multi-color arrows:

- Blue: both speeds enabled
- Yellow: high speed disabled
- Red: both speeds disabled

Alert language

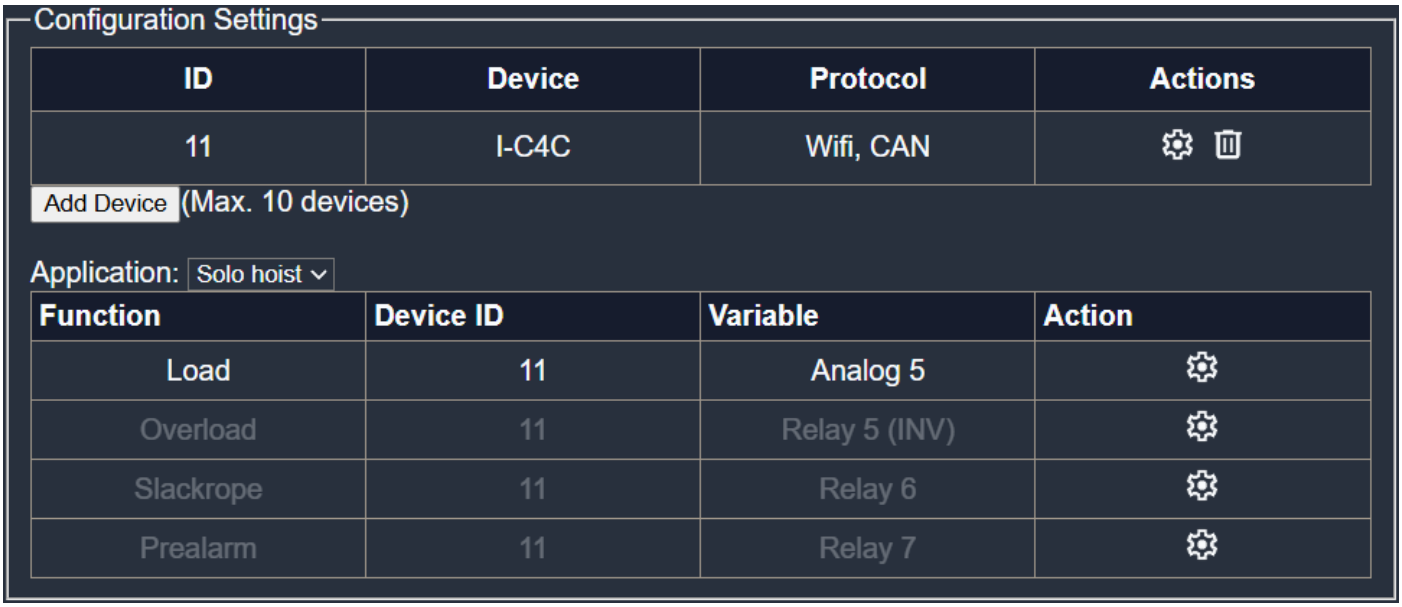
In this drop down menu the alert languages can be chosen. When slackrope or overload occurs it is represented in the chosen language:

Language	Solo		Dual - Hoists		Dual - Sum
Deutsch (German)	SCHLAFF SEIL	UBERLAST	SCHLAFF	UBERL	UBERLAST
English	SLACKROPE	OVERLOAD	SLACK	OVERL	OVERLOAD
Españgol (Spanish)	CABLE FLOJO	SOBRECARGA	FLOJO	CARGA	SO.CARGA
Français (French)	CABLE MOU	SURCHARGE	MOU	SURCH	SURCHRG
Nederlands (Dutch)	SLAP KABEL	OVERLAST	SLAP	OVERL	OVERLAST
Português (Portuguese)	CABOFROUXO	SOBRECARGA	FROUXO	CARGA	SO.CARGA



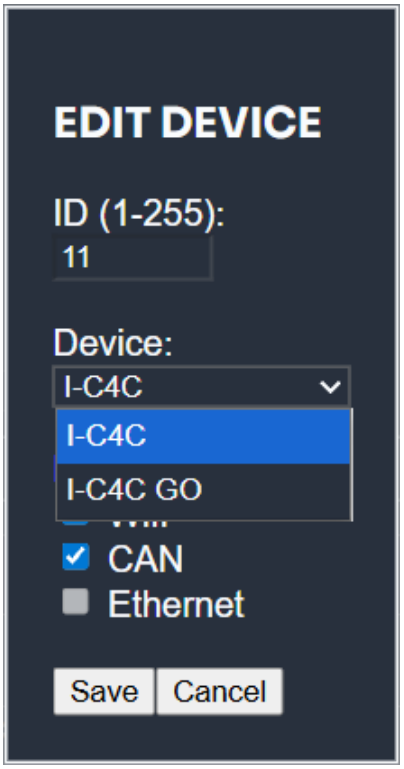
Configuration Settings

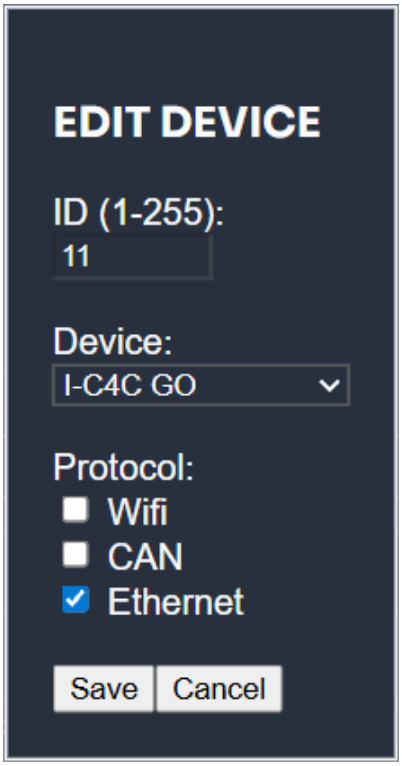
This menu is divided in to tables, a device table and an application table. The device table contains all the devices that will provide data to the display, and the way these device communicate with the inVision display. Each device has a unique identifier (e.g. CAN id).



Modify Device

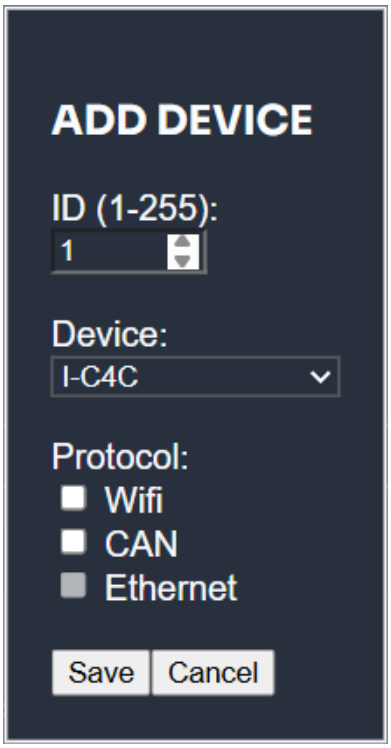
Select the gear-icon next to the device. Change the device type using the dropdown menu. Choose the required data protocol(s) through which it will communicate. Click on ***Save*** to confirm your new settings. You cannot modify the id of a device. Create a new device, if necessary. **Always cycle power after modifying existing devices.**

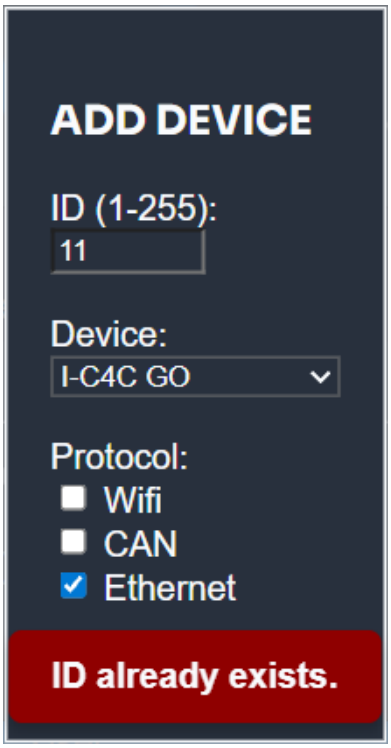


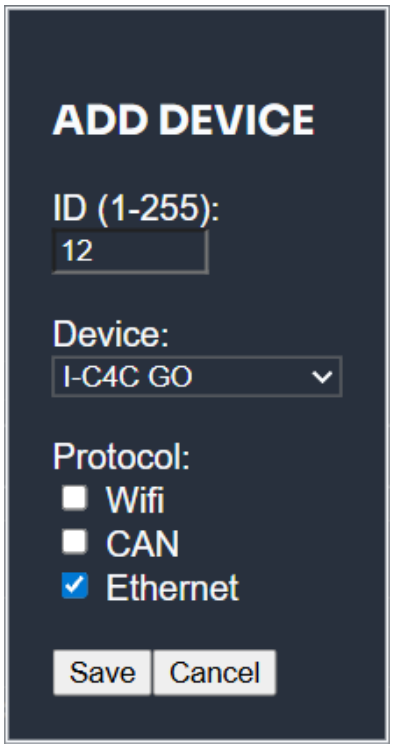


Add Device

Click on ***Add Device*** to create an additional device which will communicate with the inVision display. Select the unique (CAN) ID of the new device. Select the device type (I-C4C / I-C4C GO) and the protocol(s) it will use. **Remark:** ethernet is only available for the I-C4C GO Pro version. For communication through wifi/ethernet, the display might needs some additional settings. Look at the description of the ***Network***-menu for more information.

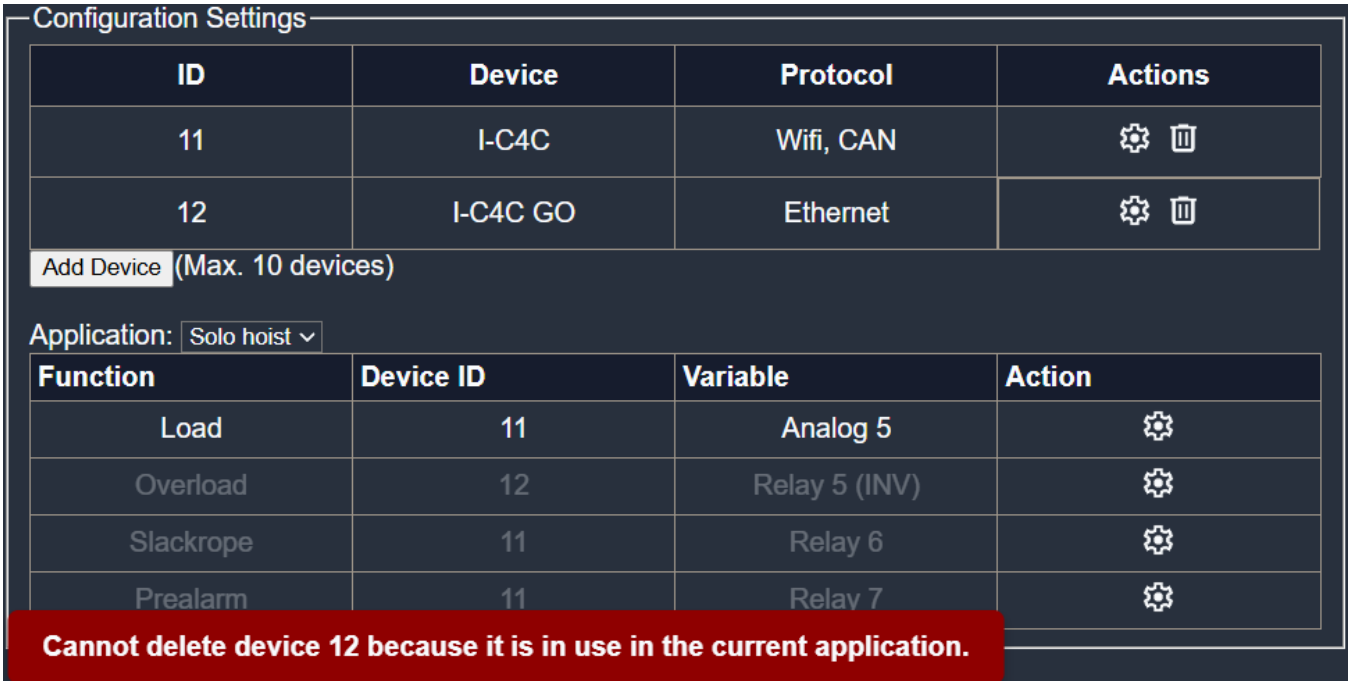






Remove Device

If a device is no longer used, it can be removed using the recycle-Bin-icon next to the device. This can only be done if the device id is not used in the active application table. E.g. id 12 is in use for Overload.



Select Application

Use the dropdown-menu to select the active application. At the moment that is ***Solo hoist*** (1 crane, 1 hoist) or ***Dual hoist*** (1 crane, 2 hoists). The solo hoist application can as well be used to represent load depending on the hoist selection. E.g. *Hoist 1 selected, load hoist 1 shown. Hoist 2 selected, load Hoist 2 shown. Hoist 1 + 2 selected, load sum shown.*

Solo hoist

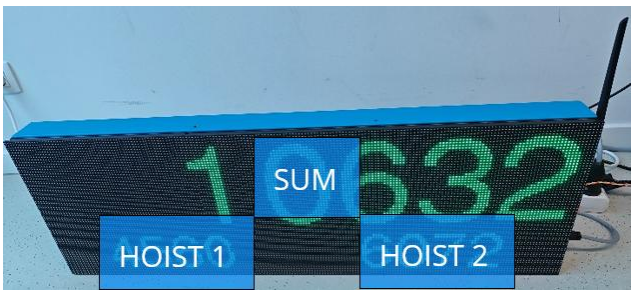
Application: Solo hoist

Function	Device ID	Variable	Action
Load	11	Analog 5	⚙
Overload	11	Relay 5 (INV)	⚙
Slackrope	11	Relay 6	⚙
Prealarm	11	Relay 7	⚙

Dual hoist

Application: Dual hoist

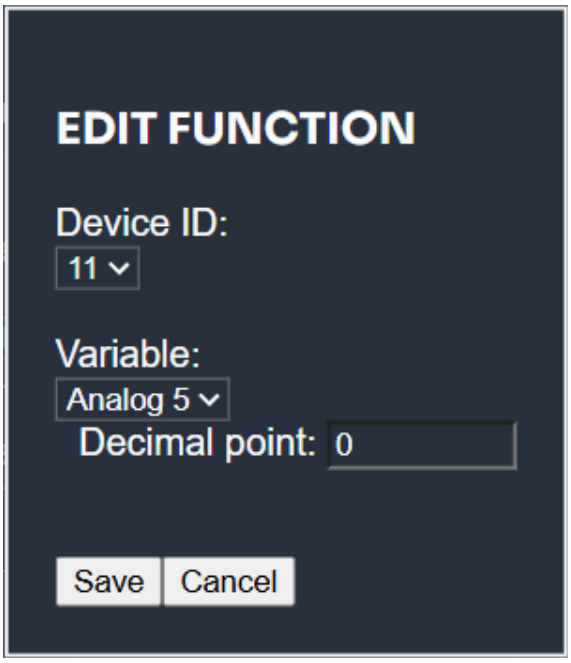
Function	Device ID	Variable	Action
Load hoist 1	11	Analog 5	⚙
Load hoist 2	11	Analog 6	⚙
Load sum	11	Analog 3	⚙
Overload hoist 1	11	Relay 6 (INV)	⚙
Overload hoist 2	11	Relay 7 (INV)	⚙
Overload sum	11	Relay 8 (INV)	⚙
Slackrope hoist 1	11	Relay 2	⚙
Slackrope hoist 2	11	Relay 4	⚙
Prealarm hoist 1	11	Relay 9	⚙
Prealarm hoist 2	11	Relay 10	⚙
Prealarm sum	11	Relay 11	⚙

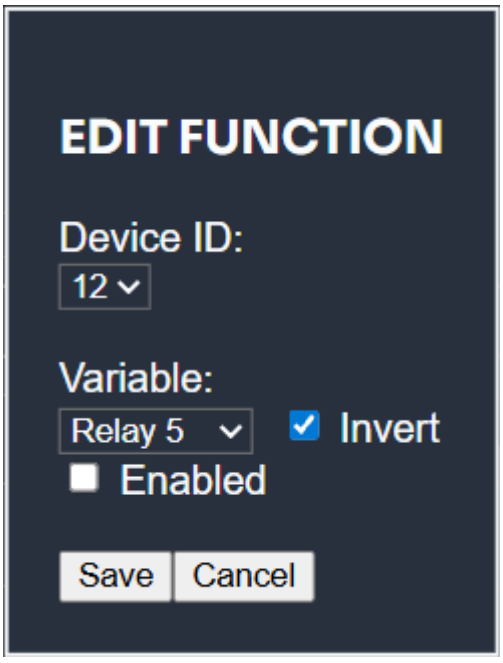


Modify application parameters

Click on the gear-icon next to the parameter to modify the settings. Select the id of the device of which the data will be used. Select the analog variable for the load, or the digital variable, inputs and relays for overload, slackrope, prealarm and limit switch states. For load parameters, a decimal point can be set. Digital states can be inverted. **By default the digital states are disabled, so that the inVision only shows loads.**

- Analog application parameters: loads
  - Decimal point position
- Digital application parameters: overload, slackrope, prealarm, limitswitch states
  - Inverted state
  - Enable/disable parameter



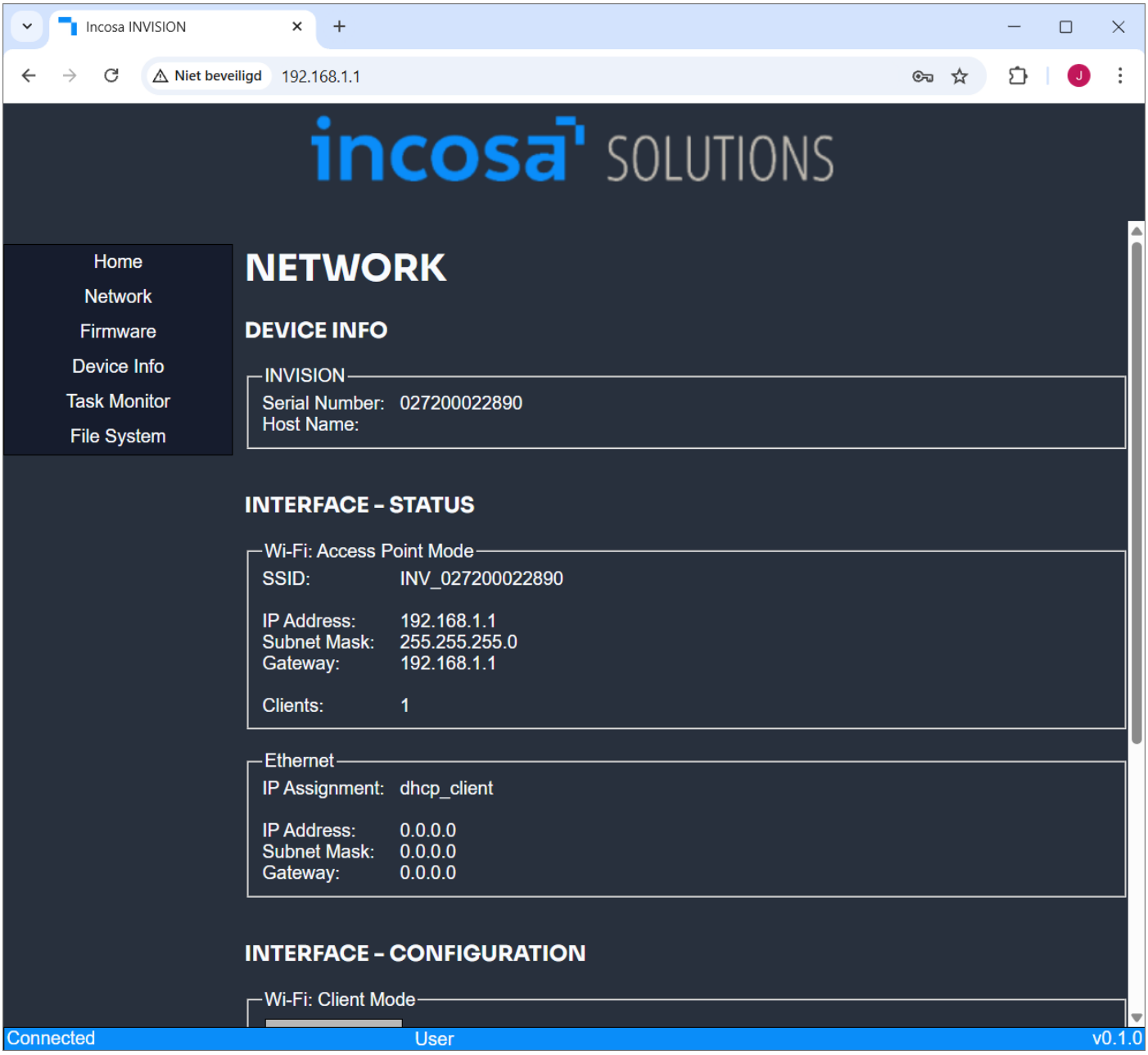


Application: Solo hoist

Function	Device ID	Variable	Action
Load	11	Analog 5	⚙
Overload	12	Relay 5 (INV)	⚙
Slackrope	11	Relay 6	⚙
Prealarm	11	Relay 7	⚙

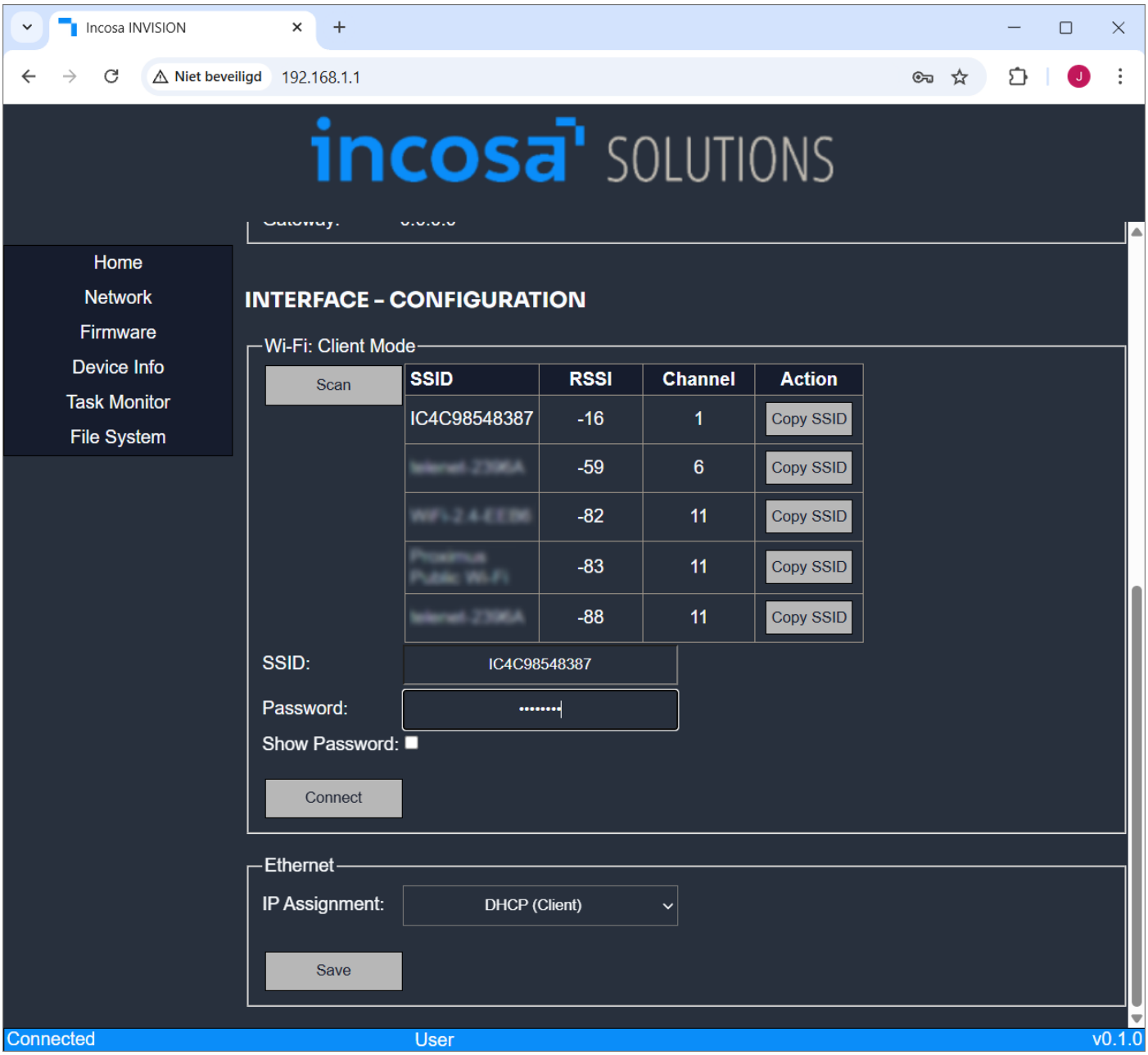
Network

Go to the Network menu. The current network settings can be found under INTERFACE – STATUS.



Connect to device through Wi-Fi

1. Scroll down to the INTERFACE – CONFIGURATION
2. Under Wi-Fi: Client Mode, Click on **Scan**
3. Click on **Copy SSID** next to the network you would like to link
4. Enter the **password** for the I-C4C network
5. Click on **Connect** to link the inVision through Wifi with the device



6. The link with the I-C4C can be checked by reopening the network menu under INTERFACE - STATUS

Connect to device through Ethernet

The inVision is by default setup as an Ethernet DHCP client. This means that it by default works fine if it is connected by Ethernet cable to a DHCP server. However, if needed it can be setup as a client with a static IP address.

DHCP-client

Under INTERFACE – CONFIGURATION, set Ethernet to **DHCP (Client)** (Default setting). Connect an Ethernet cable to the DHCP server (I-C4C GO Pro). Refresh your window and look for the connection under INTERFACE – STATUS.

Static-client

Under INTERFACE – CONFIGURATION, set Ethernet to **Static**. Set a unique IP-address, the subnetmask and the gateway in the same range as the other devices within the network. Connect an Ethernet cable to the network (I-C4C GO Pro). Refresh your window and look for the connection under INTERFACE – STATUS.

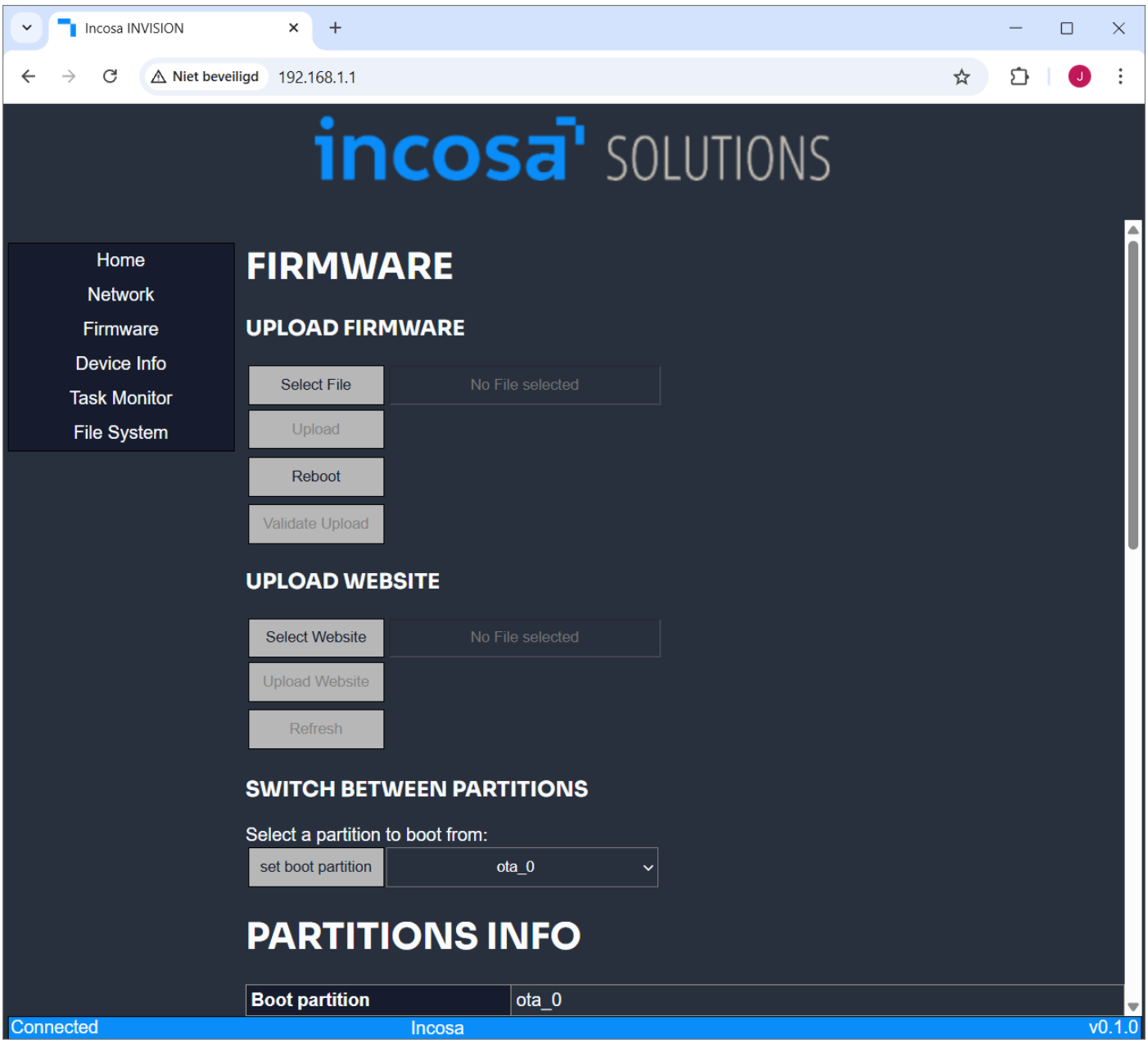
Connect to device through CAN

The inVision is a passive CANOpen device. This means that it does not send CAN-data except for an initial handshake to check the vendor and product id. If a device is setup to communicate through CAN, it will work as long as it is selected in the device table.

The inVision has its own end-resistor (120 Ω), which is always active. The baudrate rate is set to 250kb/s. (These settings are currently fixed, but will be adjustable in future releases.)

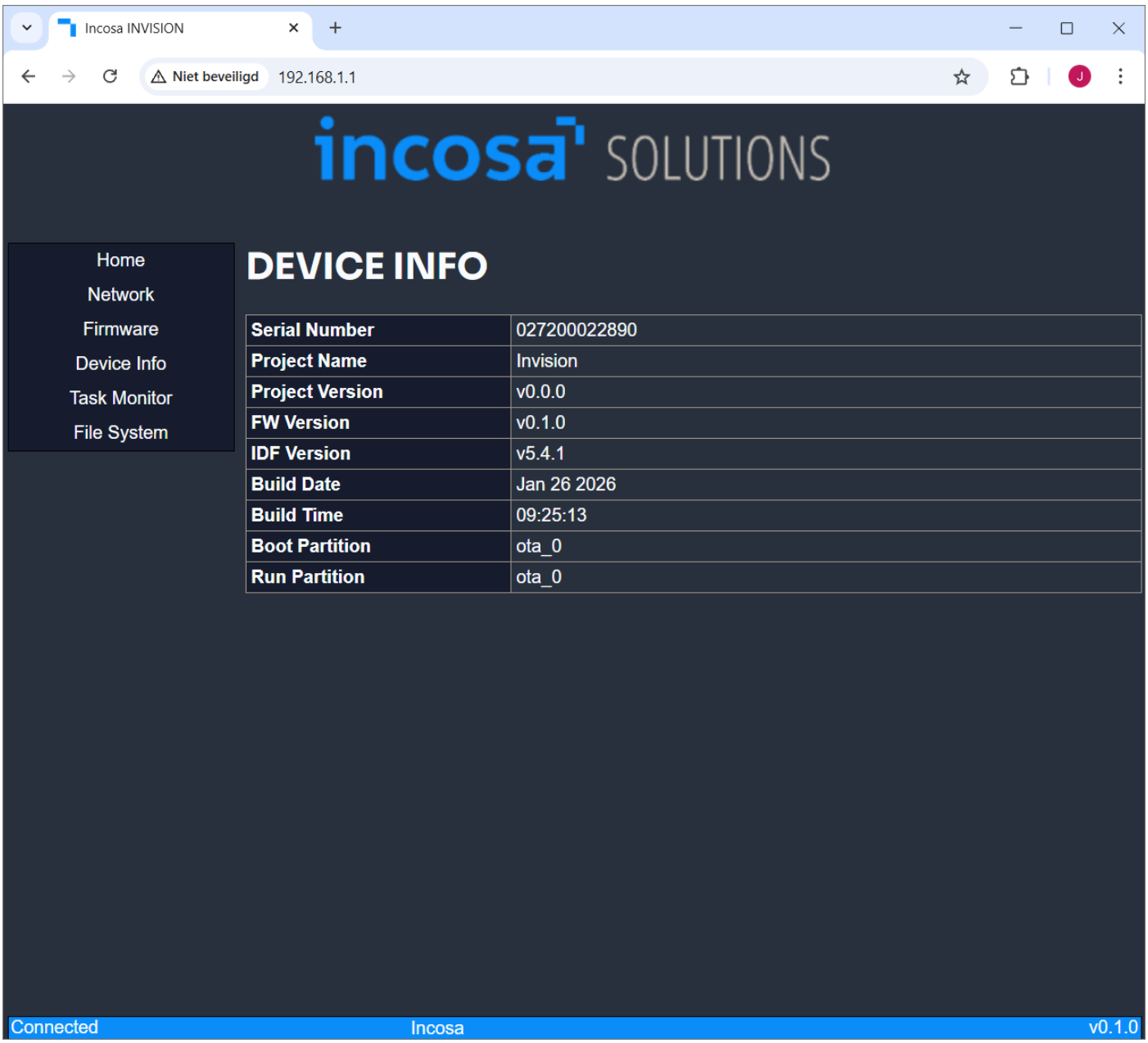
Firmware

In the firmware menu, new software can be uploaded. Further it contain information about the current active software.



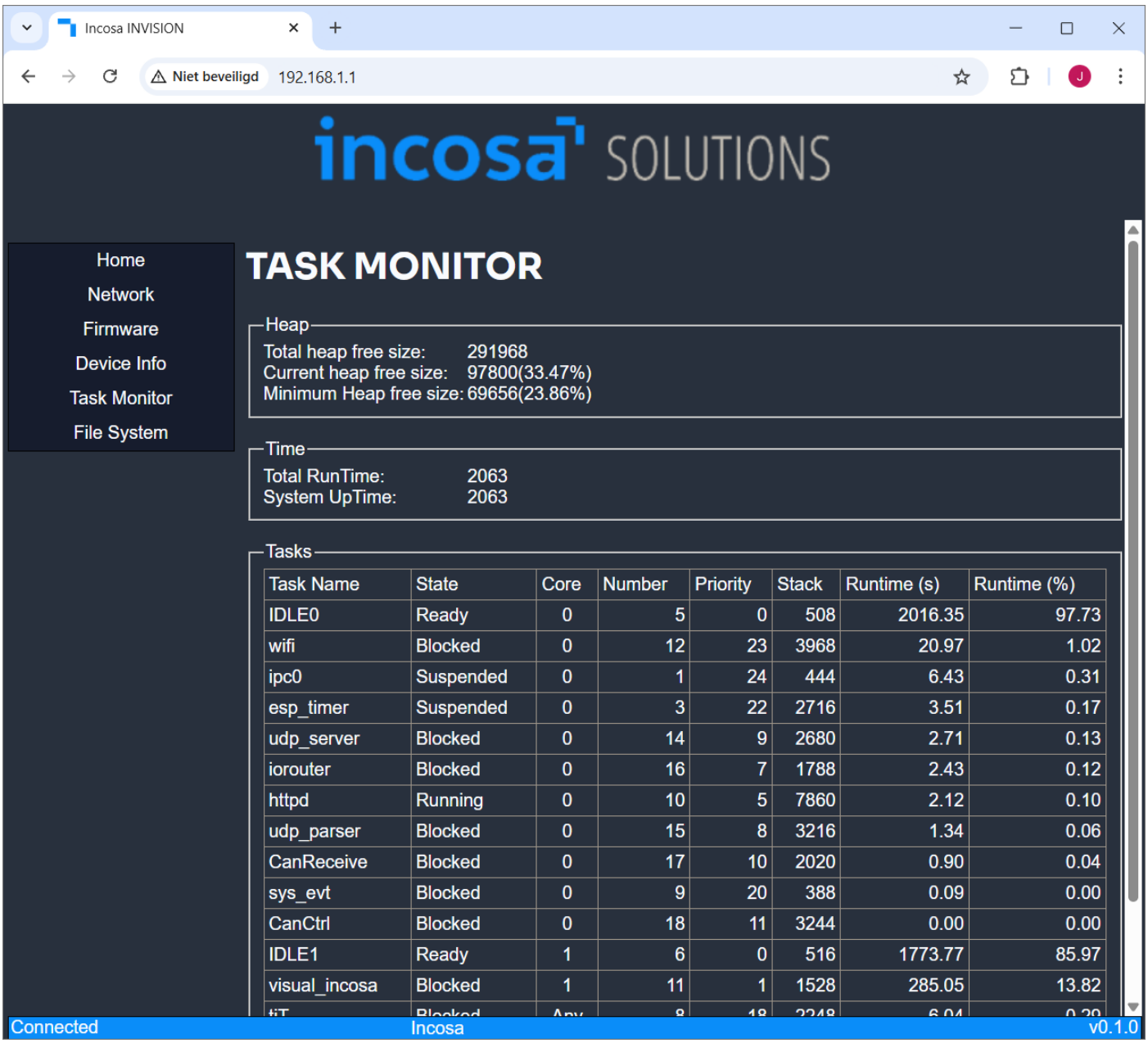
Device Info

This menu contains some general information about the inVision and the current firmware and software versions. As well as when the software was created.



Task Monitor

This is a monitoring tool, mostly for development purposes. It gives an overview of all task running on the inVision display, similar to Windows task manager.



File System

An overview of all the data files on the inVision.