

Vaelsys



How to configure Optex devices

Quick guide

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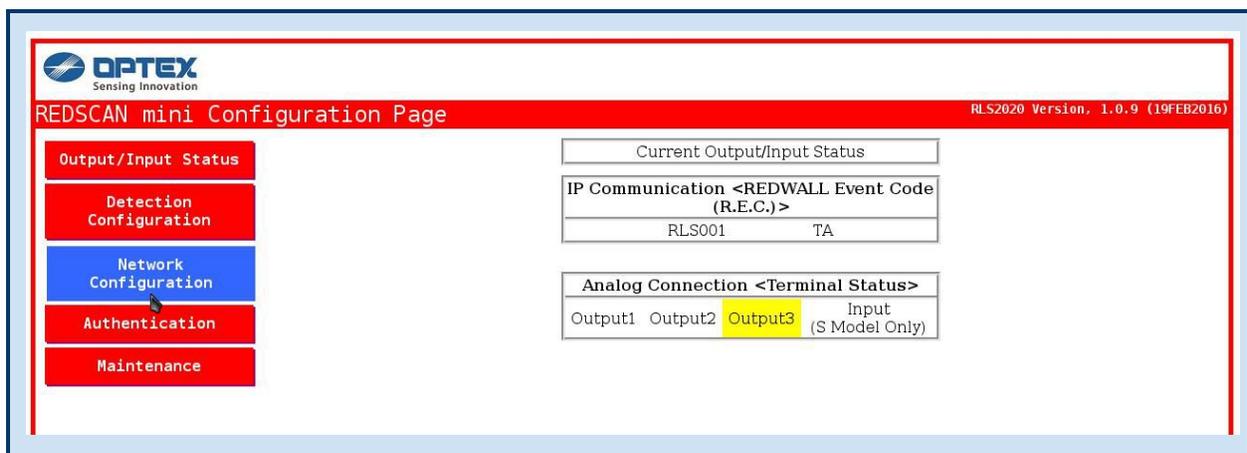
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This document presents the steps required to configure **Optex** devices within the **Vaelsys V4** system

1.- How to configure Optex devices

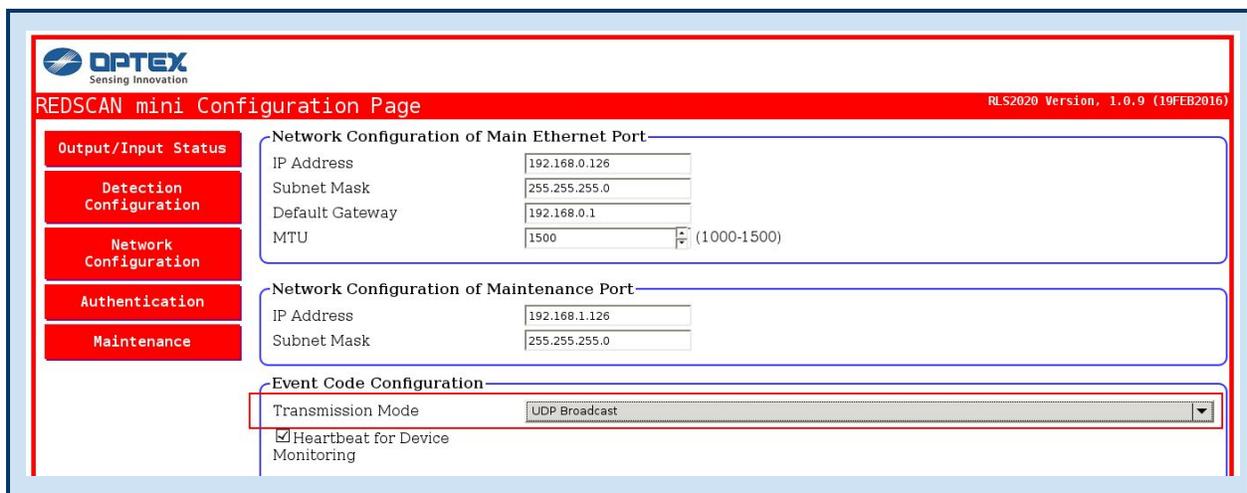
A) Configuring Optex device

Go to the configuration page of your **Optex** device and click on the *Network Configuration* button.



The screenshot shows the 'REDSCAN mini Configuration Page' with the 'Network Configuration' button highlighted in blue. The page includes a sidebar with navigation options: Output/Input Status, Detection Configuration, Network Configuration, Authentication, and Maintenance. The main content area displays 'Current Output/Input Status', 'IP Communication <REDWALL Event Code (R.E.C.)>' with values RLS001 and TA, and 'Analog Connection <Terminal Status>' with fields for Output1, Output2, Output3, and Input (S Model Only).

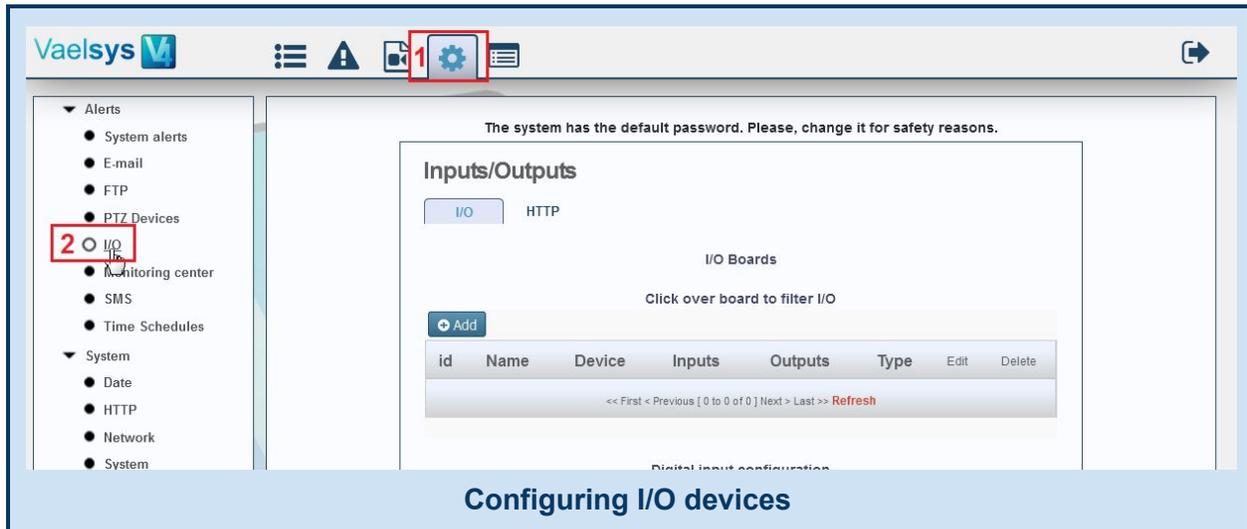
In the section *Event Code Configuration* select *UDP Broadcast* transmission mode and save config..



The screenshot shows the 'REDSCAN mini Configuration Page' with the 'Event Code Configuration' section expanded. The 'Transmission Mode' is set to 'UDP Broadcast'. The 'Network Configuration of Main Ethernet Port' section shows IP Address: 192.168.0.126, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.0.1, and MTU: 1500. The 'Network Configuration of Maintenance Port' section shows IP Address: 192.168.1.126 and Subnet Mask: 255.255.255.0. The 'Heartbeat for Device Monitoring' checkbox is checked.

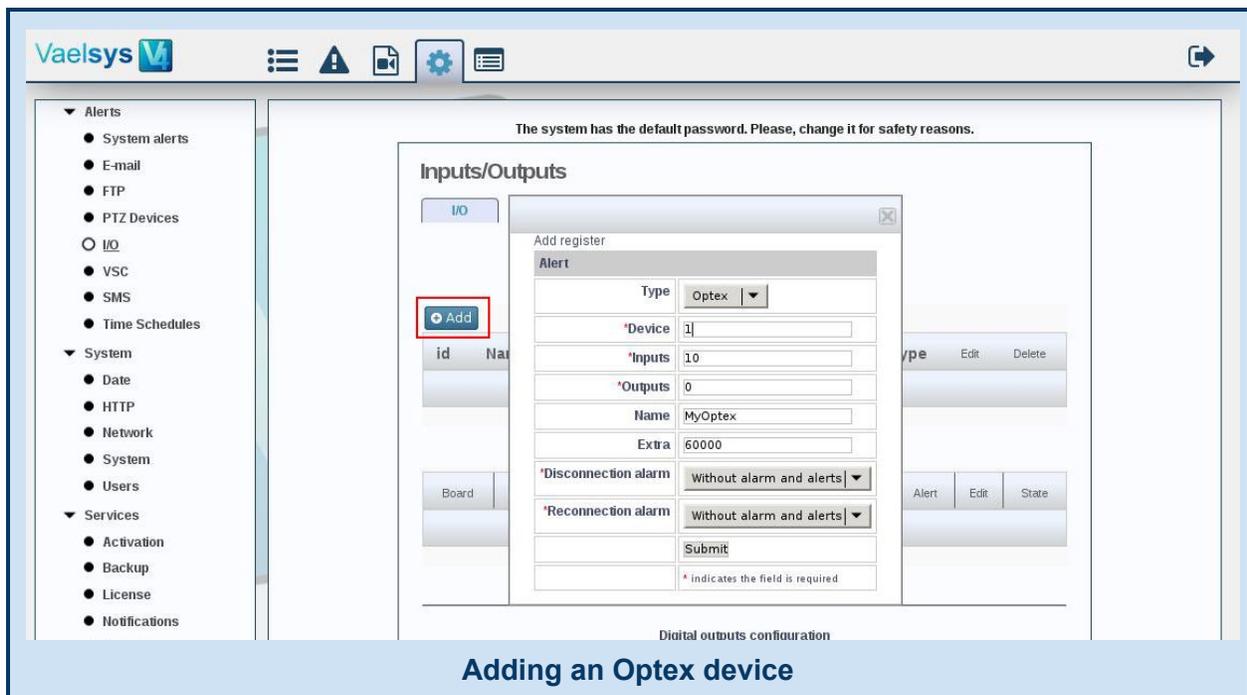
B) Adding Optex devices to the system

To add an **Optex** device to the system you need to open the *Configuration* tab in the main menu of the interface. Then, in the menu on the left in the *Alerts* section, open *I/O*.



The screenshot shows the Vaelsys V4 web interface. The top navigation bar includes a menu icon, a warning icon, a document icon, a gear icon (highlighted with a red box and the number '1'), and a list icon. The left sidebar menu is expanded to the 'Alerts' section, where 'I/O' is selected (highlighted with a red box and the number '2'). The main content area displays a message: 'The system has the default password. Please, change it for safety reasons.' Below this is the 'Inputs/Outputs' section, which includes a 'I/O' tab, an 'HTTP' tab, and an 'Add' button. A table with columns 'id', 'Name', 'Device', 'Inputs', 'Outputs', 'Type', 'Edit', and 'Delete' is visible. The bottom of the screenshot features a blue banner with the text 'Configuring I/O devices'.

Next, click on the *Add* button. A pop-up window will open.



The screenshot shows the same Vaelsys V4 interface, but with the 'Add' button (highlighted with a red box) clicked. A 'Add register' pop-up window is open, displaying a form for adding a new device. The form includes fields for 'Alert' (Type: Optex), '*Device' (1), '*Inputs' (10), '*Outputs' (0), 'Name' (MyOptex), and 'Extra' (60000). There are also dropdown menus for '*Disconnection alarm' and '*Reconnection alarm', both set to 'Without alarm and alerts'. A 'Submit' button is at the bottom of the form. The bottom of the screenshot features a blue banner with the text 'Adding an Optex device'.

The following table shows how to configure **Optex** devices.

Adding Optex devices

Type	Optex
Device	ID of the device.
Inputs/Outputs	10 inputs (4 zones and 6 events) and 0 outputs
Name	Descriptive name of the device.
Extra	60000 (UDP destination port number)
Disconnection / Reconnection alert	Select the desired option.

If the operation is completed successfully, the corresponding inputs and outputs will appear in the two tables below.

The screenshot shows the Vaelsys web interface. On the left is a sidebar with a navigation menu. The main content area displays the configuration for an Optex device. At the top, a warning message states: "The system has the default password. Please, change it for safety reasons." Below this, the "Inputs/Outputs" section shows a table with one device, "MyOptex", which has 10 inputs and 8 outputs. The "Digital input configuration" section shows a table with 10 rows, each representing an input configuration for the device. Each row includes the board name, I/O ID, input name, and various configuration options like "Enabled", "Enable on high (NC)", and "Alert".

Inputs/Outputs

id	Name	Device	Inputs	Outputs	Type	Edit	Delete
2	MyOptex	1	10	8	Optex		

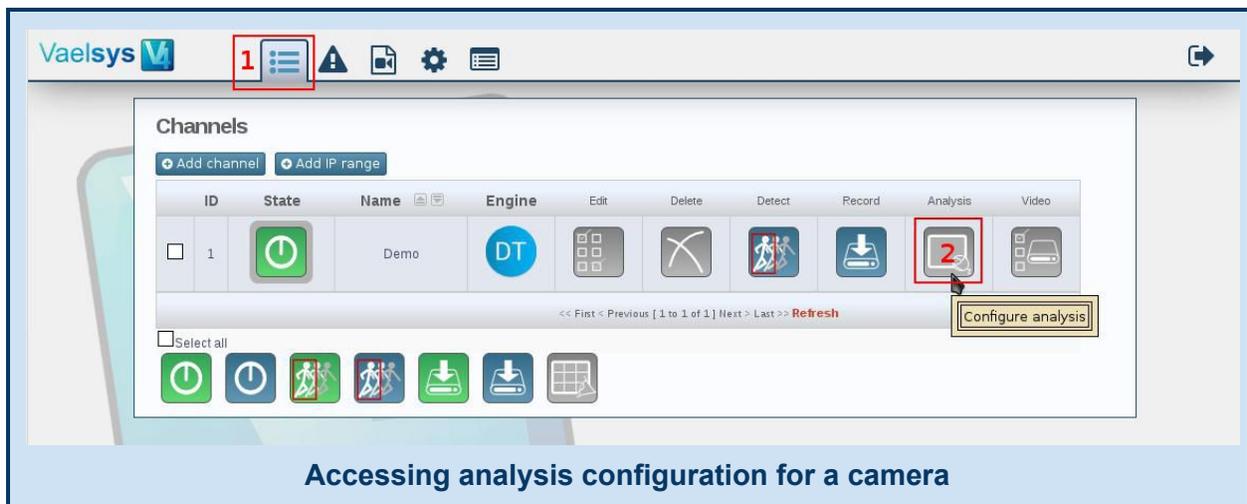
Digital input configuration

Board	I/O ID	Input	Enabled	Enable on high (NC)	Alert	Edit	State
MyOptex	1	Zone A1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	2	Zone A2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	3	Zone B1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	4	Zone B2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	5	Event - DQ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	6	Event - AR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	7	Event - AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	8	Event - TR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	9	Event - SO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		
MyOptex	10	Event - TA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Without alarm and alerts		

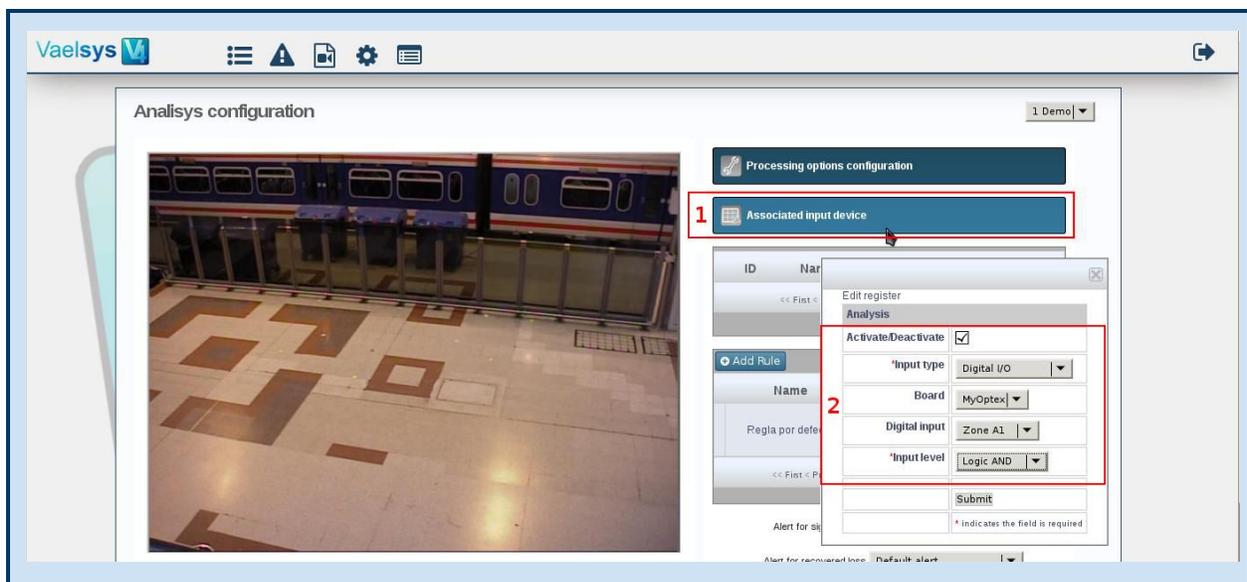
New Optex devices added along with their list of inputs and outputs

C) Associating an Optex device to a camera

The **Vaelsys V4** system allows an input device to be connected to the analysis engine. In order to associate an **Optex** device to a camera you need to open the configuration screen of that camera. To do this, go to the *Channels* tab in the main menu of the interface. Then go to analysis configuration by clicking on the *Analysis* button for the camera that you want to associate.



To associate a connected **Optex** device, click on the *Connected input device* button. A pop-up window opens with the configuration options.



How to associate a connected Optex device

The following table shows how to associate an **Optex** device to the camera.

1 Board MyOptex

2 Digital input Zone A1

3 Input level Logic AND

Submit

* indicates the field is required

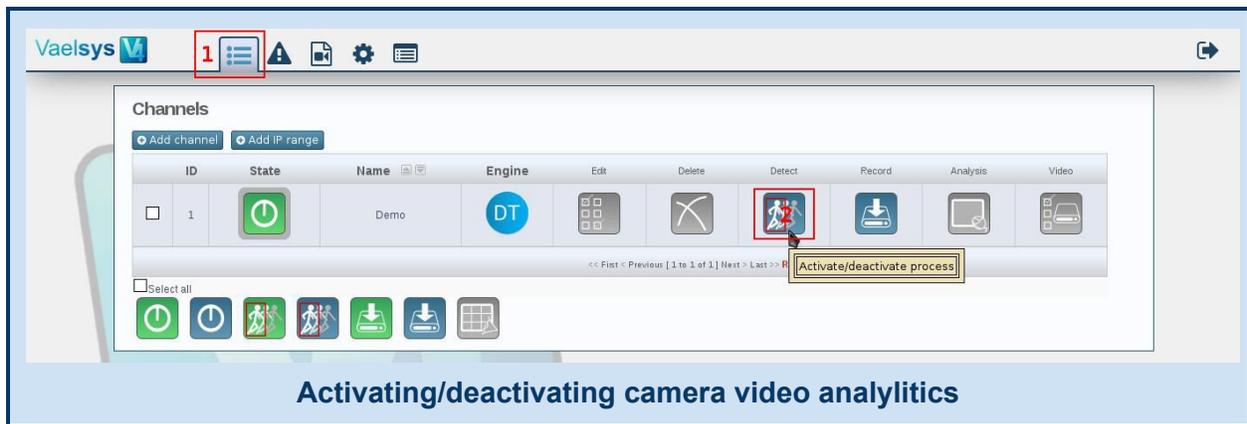
Input devices

You need to enable the connection process.

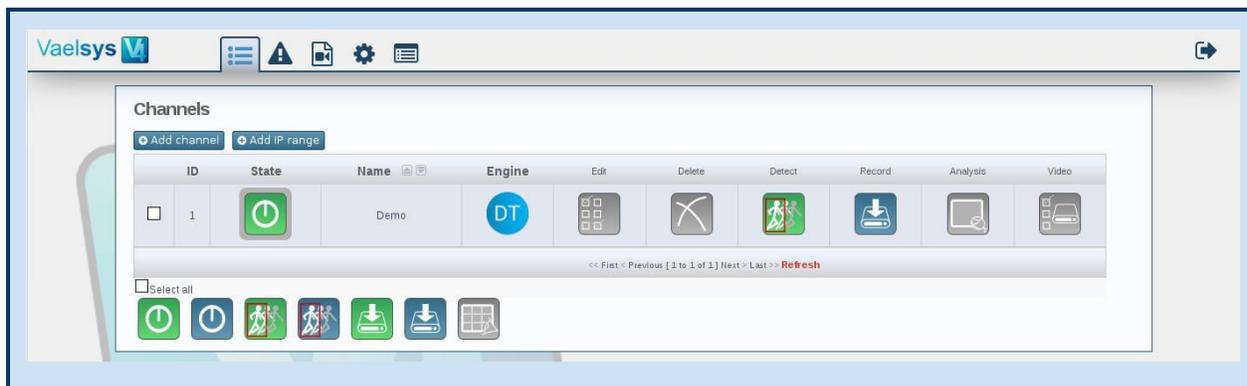
Board	Optex device.
Digital input	Input that you wish to connect with camera analysis.
Input level	This executes a logical AND which generates an alarm when both Optex input and video analytics generate an alarm.

D) Activating the camera video analytics

To activate the camera video analytics, open the *Channels* tab in the main menu of the interface. Then click on the *Activate/Deactive process* button of the camera you want to activate.



If no error occurs, after a few seconds the button will change colour from blue to green.



To check the system alarms generated, open the *Events* tab in the main menu of the interface.

The screenshot displays the Vaelsys V4 web interface. At the top left is the Vaelsys logo. A red box highlights a notification icon in the top navigation bar. The main content area is titled 'Event recording' and shows 'Events - All channels - Pending (0 of 0) Day 2018-02-15'. Below this is a table with columns: Video, Preview, Camera, Date, Duration, Reviewed, Delete, View, and Download. The table is currently empty. A 'Show all events' dropdown is visible. At the bottom of the table area are 'Delete selected' and 'Delete all' buttons. On the left sidebar, there is a 'Search' section with a calendar for February 2018, an 'Advanced search' button, and a 'Channels' section with 'ALL' and '1 - DEMO - 0' options. The bottom navigation bar has the 'Events tab' selected.