



RAYVIZION — User and Commissioning Manual

Version 1.0 — October 2026

www.rayvizion.com

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1. General information

1.1 What RAYVIZION is for

RAYVIZION is a DIN-rail unit that **controls and monitors a DALI and/or CASAMBI lighting installation in real time** from a single web interface, available in any browser (computer, tablet, phone) on the local network.

It connects to the gateways already in place, with no additional hardware and no re-entry of data:

Technology	Compatible gateway	Role
DALI	sceneCOM evo (Tridonic)	RAYVIZION queries the sceneCOM through its REST API
CASAMBI	Lithernet	The gateway sends its data to RAYVIZION over MQTT

What RAYVIZION provides:

- **Scenes**: recall the programmed ambiances with one click, on each gateway.
- **Interactive floor plans**: see the status (on, off, faulty) of every luminaire and sensor on the building plan.
- **Sensors**: live presence and light level.
- **Occupancy**: map of how busy each area is, with a replay of the day.
- **Energy**: instant power and energy per group, by hour, day, month, over 5 years or over a chosen period; .csv and .pdf exports.
- **Faults**: faulty luminaires (communication, driver, lamp, device offline) and history.
- **Maintenance**: dated log of interventions.
- **Daily e-mail report** (faults and/or energy), **scene triggering by dry contacts** (8 digital inputs), **backups** and **updates**.

1.2 How it works

RAYVIZION **does not replace** the gateways: it queries and controls them. Luminaires, scenes and sensors are therefore created and set up in the usual tools (sceneCOM, CASAMBI app); RAYVIZION retrieves them automatically.

1.3 Versions and licence

The capacity of a RAYVIZION is defined by its **licence**: total number of gateways (sceneCOM + CASAMBI gateways, split freely) and maximum number of scenes per digital input.

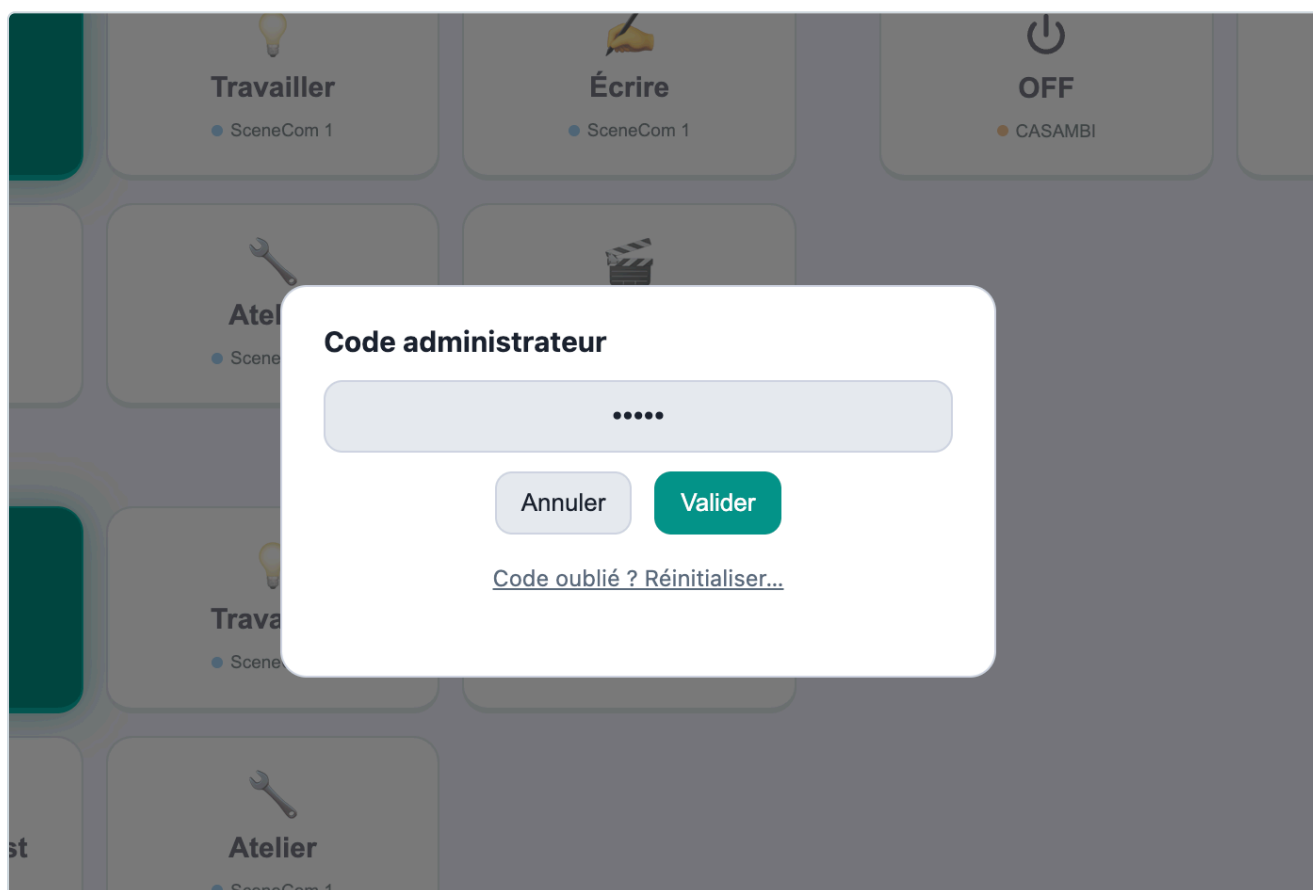
Version	Manageable gateways
S	1
M	3
L	10

When the licence limit is reached, the interface displays “Licence limit reached” when a gateway is added.

1.4 Accessing the interface, roles and conventions

- **Access:** type the IP address of the RAYVIZION in the browser. The factory address is **192.168.10.150**: it must be replaced with an address from the customer's network (see § 6.8).
- **Viewer mode:** if users have been created (Settings > Users), a screen asks for an **access code** when the interface is opened. Each user only sees the pages, groups and plans assigned to them.
- **Administrator mode:** the button at the top right (silhouette) asks for the **administrator code** (default code of a new RAYVIZION: **54321**, to be changed at commissioning, see § 6.8.6). Once logged in, it shows “Admin X”; X leaves administrator mode. Only the administrator can open the **Settings** page, move luminaires on the plans, clear the fault history, etc.
- **Protection:** after 5 wrong codes, login is blocked for 2 minutes.
- **Language:** the  /  flags at the top of the screen switch the interface language.

Screenshots and interface names. The screenshots in this manual show the interface in **French**. In the text, buttons and pages are named as they appear in the **English** interface.



Login screen and administrator code entry

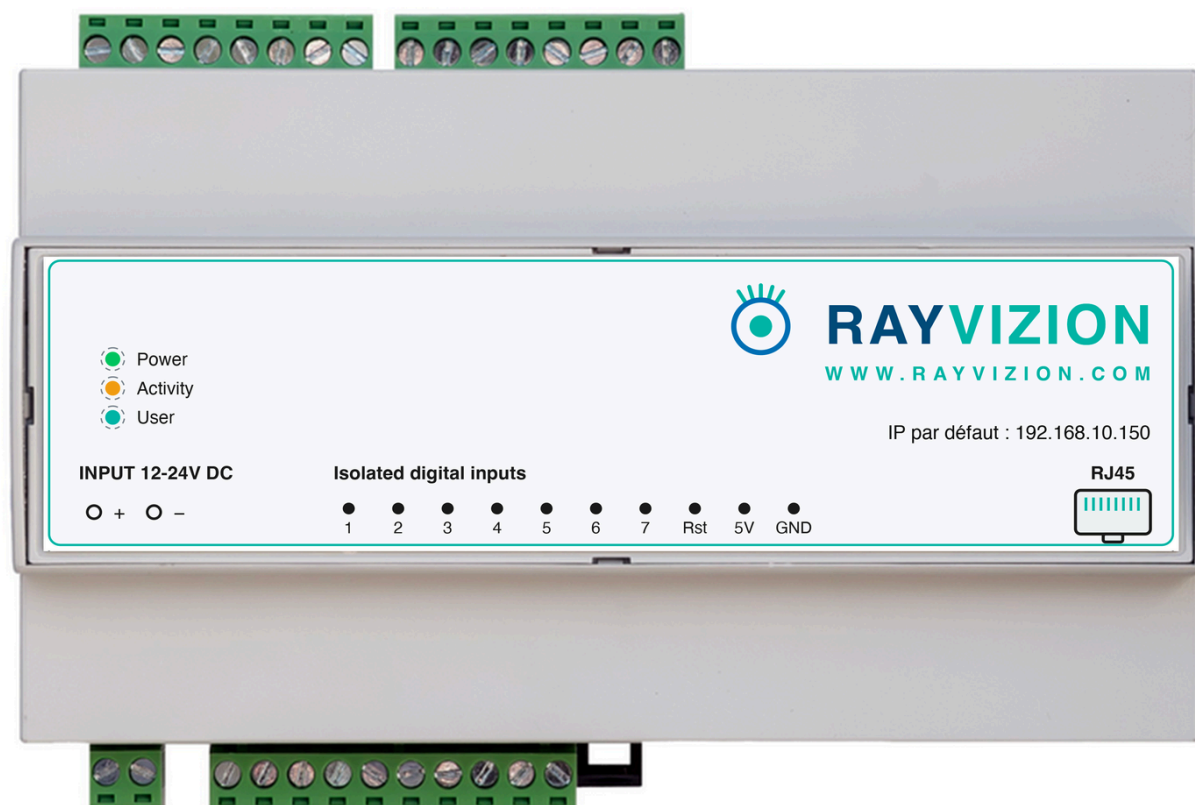


Header: language, clock, connection status, administrator mode

Interface header (left to right): name and logo of the installation (customisable), language selection, **clock** of the RAYVIZION, **connection badge** (“Connected” in green) and user / administrator button.

2. Technical information

Characteristic	Value
Power supply	12 to 24 V DC, 1.5 A
Processor	64-bit quad-core @ 1.5 GHz
Memory	2 GB (LPDDR4-3200)
Internal storage	128 GB M.2 NVMe SSD
Network	1 Gigabit Ethernet RJ45 port (IEEE 1588)
Video	2 × 4K HDMI outputs (4Kp60 H.265 decoding)
Real-time clock (RTC)	Keeps the time when unpowered (supercapacitor)
Inputs	8 digital (on/off) inputs , opto-isolated 5 kV, 0–40 V DC
Protection rating	IP20
Operating temperature	–10 to +60 °C at 50 % humidity
Dimensions	160 × 90 × 68 mm — 9 DIN-rail modules
Mounting	DIN rail (IEC 60715), in an electrical enclosure or cabinet
Certifications	CE — RoHS
Warranty	2 years (hardware)



RAYVIZION unit — front panel

2.1 Installation and power-up

1. Mount the unit on the DIN rail in the enclosure.
2. Connect the **LAN** port to a switch or router of the lighting network (RJ45 cable).
3. Power with **12 to 24 V DC** (regulated supply). The **Power** and **Activity** LEDs light up; Activity blinks while the software loads. Full start-up takes **about 25 seconds**.
4. On the RJ45 socket, the steady left LED indicates a network link; the blinking right LED indicates that the unit is communicating.
5. Open the IP address of the RAYVIZION in a browser.

2.2 Digital inputs

Inputs 1 to 7 trigger scenes by a dry-contact pulse (see § 6.1). **Input 8** is reserved for IP address reset: held for 20 seconds, it restores the factory address (see § 6.8).

2.3 Network

- Install the RAYVIZION, the gateways and the sceneCOM units on a **dedicated lighting network** (VLAN or separate network), not accessible from the Internet. **Never forward a port** to the RAYVIZION.
- Use **fixed IP addresses** for the RAYVIZION and the gateways.

2.4 Security and data protection

- Replace the **default administrator code (54321)**, which gives access to Settings (Settings > Connection, § 6.8.6).
 - Create **one code per person** (5 maximum) and tick only the pages that are needed.
 - Change the password of **each Lihernet gateway** and **each sceneCOM**.
 - Secure the MQTT link with the CASAMBI gateways (see § 6.8.6).
 - Codes are stored in encrypted form: **a forgotten code cannot be retrieved, it must be replaced**.
-

3. Gateway configuration

RAYVIZION relies on the gateways: they must be **at the right version** and correctly set up before being declared in RAYVIZION (Settings > Connection).

3.1 Versions to comply with

Item	Required version
sceneCOM evo (Tridonic)	Firmware 4.0 minimum (the “Device Information – 4” memory bank, used for energy measurement, requires $\geq 3.8.0$)
Lithernet (CASAMBI gateway)	Hardware revision 2.5 (label prefix “02-XXXXX”), firmware 6.38 or higher (4.35 at the very minimum)
CASAMBI (Evolution radio module)	Firmware v50.0 or higher
Drivers for measurement and detailed faults	Compatible Tridonic LumData drivers (D4i, DALI Parts 251 to 253)

Important — CASAMBI module at v50.0. With an older module, the gateway does not periodically repeat the state of the devices: an outdated state may remain displayed after a restart. **After any update of the CASAMBI module, reopen “Casambi Settings” on the Lithernet gateway and click “Save” again** (same values) so that the setting is sent back to the module.

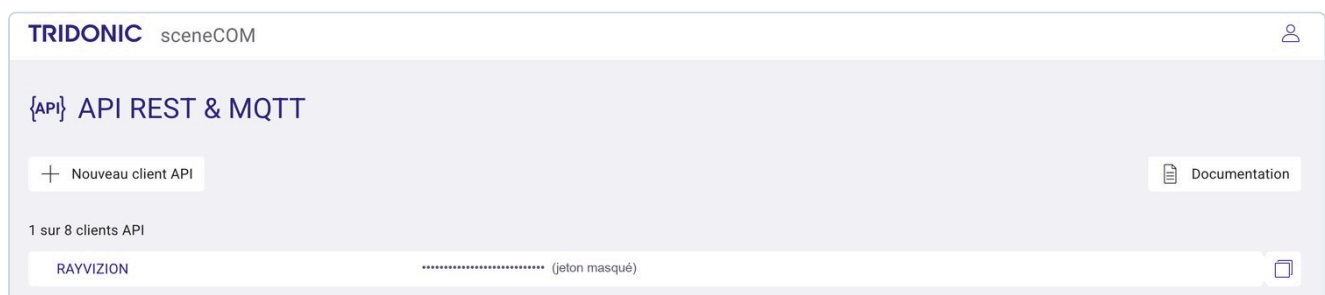
The CASAMBI profile of the gateway (CASAMBI app, “Nearby devices”) must match its hardware revision (“_REV2.5”). The firmware of the CASAMBI module can be read in “Casambi Settings”, field “Casambi Version”.

3.2 sceneCOM evo (DALI)

3.2.1 Creating the API access token

In the sceneCOM “**REST API & MQTT**” application:

1. Click “**New API client**” and name the client: “**RAYVIZION**” recommended. The same name can be used on every sceneCOM.
2. **Copy the token** shown. It will be entered in RAYVIZION (Settings > Connection > DALI gateways) together with the IP address of the sceneCOM and the **API client name**.



sceneCOM “REST API & MQTT” application — RAYVIZION client and token

Two communication modes, working together:

- **REST API** (token only, always active): RAYVIZION reads the installation **every 3 minutes** (and immediately after an action made in RAYVIZION), presence every 5 s and brightness every 30 s.
- **Real-time MQTT** (if the **API client name** is entered in RAYVIZION): in addition, changes made **outside RAYVIZION** (scene recalled from a switch, the sceneCOM app or a sceneCOM timer, level, fault, presence) are shown within **about 1 second** instead of 3 minutes at most. Encrypted link (port 8883). Recommended, especially on large installations: the sceneCOM only sends what changes.

The token must not be disclosed: it gives control of the lighting. If in doubt, create a new one in the sceneCOM and enter it again in RAYVIZION.

3.2.2 Enabling energy measurement and fault reporting

Without the settings below, energy is **estimated** (rated power × dimming level) and only communication faults are detected. To be done **once per sceneCOM**, in the **“DALI data”** application:

1. Gear icon (Settings), top right:
2. enable **“Enable DALI data polling”**;
3. enable **“Add up active energy and active power”** (energy meter, DALI Part 252, read every 15 min, not adjustable).
4. **“Synchronise DALI parameters and memory blocks” > “Start”**. **During this operation, all DALI lines are locked and the installation cannot be controlled**: do it when the lighting is not in use.
5. **“Select devices”**: check which luminaires provide DALI data. A luminaire missing from the list has no measurement.
6. Open the **DALI data profile**, **“Diagnostic”** tab, and enable the following properties with the **“High”** frequency (read every 15 minutes; “Medium” = 4 h, “Low” = 12 h, unusable for monitoring):

Section	Property	Use in RAYVIZION
Device Information – 4	Current Power Consumption (Value)	Measured energy
Device Information – 4	Current Power Consumption (Exponent)	Measured energy
Control Gear Diagnostics – 205	Control Gear Failure	“Driver fault”
Control Gear Diagnostics – 205	Control Gear Thermal Shutdown	“Driver fault”
Light Source Diagnostics – 206	Light Source Failure Condition	“Lamp fault”
Light Source Diagnostics – 206	Light Source Open Circuit	“Lamp fault”
Light Source Diagnostics – 206	Light Source Short Circuit	“Lamp fault”

The sceneCOM limits the number of properties at “High” frequency to 10: the list above uses 7.

What each driver can provide:

Driver memory banks	Available in RAYVIZION
0, 1, 4 (Tridonic drivers without full D4i)	Measured power. No energy meter and no driver/lamp faults
202 (Part 252)	Energy meter (15-min average)

Driver memory banks	Available in RAYVIZION
205 / 206 (Part 253)	Driver fault / lamp fault
No DALI data	Estimated energy only

3.2.3 Other points

- **sceneCOM clock:** set it at commissioning (a new sceneCOM may show a very old date), otherwise its readings and logs are wrong.
- **Start-up:** after a power cut, the sceneCOM REST API takes **about 6 minutes** to become available again. RAYVIZION, ready in 10 to 15 seconds, resumes reading the sceneCOM data as soon as its API responds.
- **Reporting delays:**

Information	Maximum expected delay
First connection of a sceneCOM (scenes, groups, luminaires)	≈ 20 s
Levels, statuses, active scene	≤ 3 min
Presence / light level	≤ 5 s / ≤ 30 s
Communication or addressing fault, sceneCOM unreachable	≤ 3 min
Driver / lamp fault, measured energy ("High" frequency)	≈ 15 to 19 min
Energy meter	≈ 15 to 18 min; first values after 2 readings (30 to 35 min)

3.3 Lethernet (CASAMBI)

3.3.1 MQTT link with RAYVIZION

The Lethernet gateway connects **as a client** to the MQTT server of the RAYVIZION. In its web interface, **General Setting > System:**

Setting	Value
Type	MQTT
MQTT IP	IP address of the RAYVIZION
MQTT-Port	1883 (no password, factory setting) or 1884 (with password, recommended: see § 6.8.6)
Bridge ID (Net ID)	Free number from 0 to 254, identical to the one entered in RAYVIZION
Authentication / User / Password	See § 6.8.6 if port 1884 is used
Use Broadcast	false

When the link is established, the **State** line reads "connection to Broker (...) established".

General Setting

Network

System

Memory

Control System

TypeMQTT

MQTT-Port1884

MQTT IP192.168.10.150

Bridge ID0

Authenticationactive

Userlithernet

Password.....

Use Broadcastfalse

Devices1 / 200

Groups1 / 0

Scenes1 / 30

Stateconnection to Broker(192.168.10.150:1884) established

Wizard

Lithernet — General Setting > System (MQTT)

General Setting

Network
System
Memory

IPv4-Settings

DHCP

inactive

▼

Hostname

casambi-gateway-FCB467D2ED43

IP-Adress

192.168.10.107

Subnet

255.255.255.0

Gateway

192.168.10.254

Namserver 1

0.0.0.0

Namserver 2

0.0.0.0

Save

Lithernet — General Setting > Network (IPv4 address)

3.3.2 Casambi Settings

Setting	Value
Polling Method	passive_49_50
Repeat Output Time [s]	60 (default value)
Casambi Version (read-only)	v50.0 or higher

Casambi Settings

Casambi Version

50.0

Profile

Ethernet_Gateway_REV2.5_EVO

Casambi Network

paired

Polling Method

passive_49_50

▼

Repeat Output Time [s]

60

Save

Refresh Casambi Info

Lithernet — Casambi Settings

Other polling modes (active , passive_37_80 ...) should be avoided: slower, chattier and unable to detect an unplugged device.

3.3.3 Reducing the scene display delay (optional)

Since firmware 6.33, the gateway pushes the scene state almost immediately: nothing to set with firmware 6.38. For older firmware, or to go even faster, two options exist: limit the polled ranges (gateway MQTT page: **Group Count = 0**, **Use Broadcast = 0**, **Scene Count** = number of scenes used, **Device Count** = range of installed luminaires), or add the Lithernet gateway to each scene in the CASAMBI app with its sliders set to the **scene number** (instant detection).

3.3.4 Behaviour to be aware of

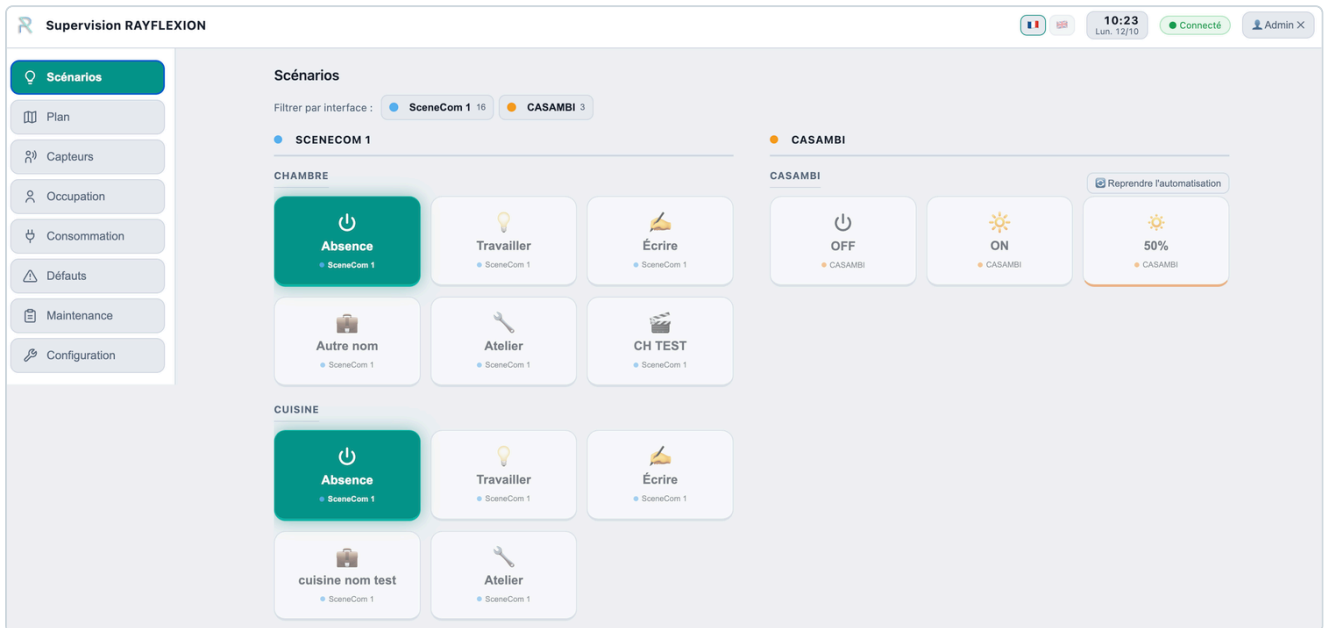
- **A luminaire only appears in RAYVIZION after it has been seen online at least once.** At commissioning, use **Settings > Connection > “Discover devices”** (§ 6.8.4).
 - The gateway only reports a luminaire as **offline** if it disconnects **while the gateway is running**. A luminaire already off before the gateway restarted is unknown to it. After a power cut, check that all luminaires are back (button **“Check CASAMBI devices”**, Faults page, § 4.6.3).
 - The groups of the Lithernet gateway are not used by RAYVIZION: RAYVIZION provides its own consumption groups (§ 6.2).
 - The IP address of the gateway is optional in RAYVIZION: it is the **Net ID** that identifies it.
-

4. Description of the pages

The **left-hand menu** gives access to the pages, in this order: **Scenes, Floor plan, Sensors, Occupancy, Energy, Faults, Maintenance, Settings**. A user in viewer mode only sees the pages assigned to them.

4.1 Scenes

The page shows all scenes as buttons, sorted by **interface** (one column per sceneCOM or CASAMBI gateway) then by **group**.

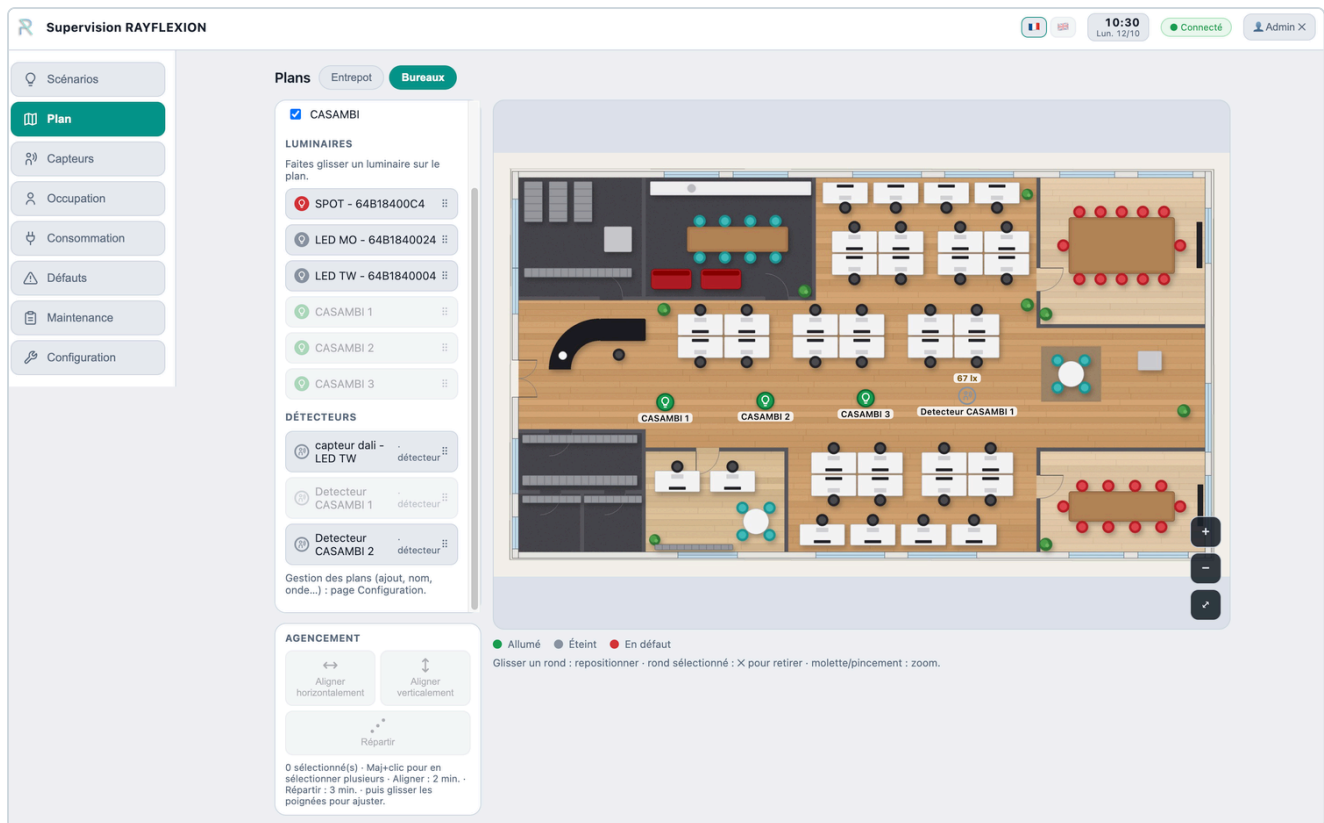


Scenes page

- **Filter by interface:** the chips at the top (blue = sceneCOM / DALI, orange = CASAMBI, with the number of scenes) show or hide an interface.
- **Recall a scene:** click its button. The button of the **active scene** is highlighted (filled).
- Each button shows a **pictogram**, the scene **name** and the source interface. Scenes marked “Hidden” (Settings > Scenes) do not appear.
- **Resume automation (CASAMBI):** this button, to the right of the name of each CASAMBI gateway, hands control back to the sensors and timers configured in the CASAMBI app by clearing any manual control in progress (equivalent to the “@” button of the app). It has no effect on DALI, nor if no sensor or timer controls the luminaires.
- **Display delays:** the active scene appears in under 3 minutes on DALI and within a few seconds on CASAMBI (Lithernet firmware ≥ 6.33).

4.2 Floor plan

The **Floor plan** page displays the status of each luminaire and sensor on the building image. A **tab per plan** (for example “Warehouse”, “Offices”) is offered at the top of the page.



Floor plan page — Offices

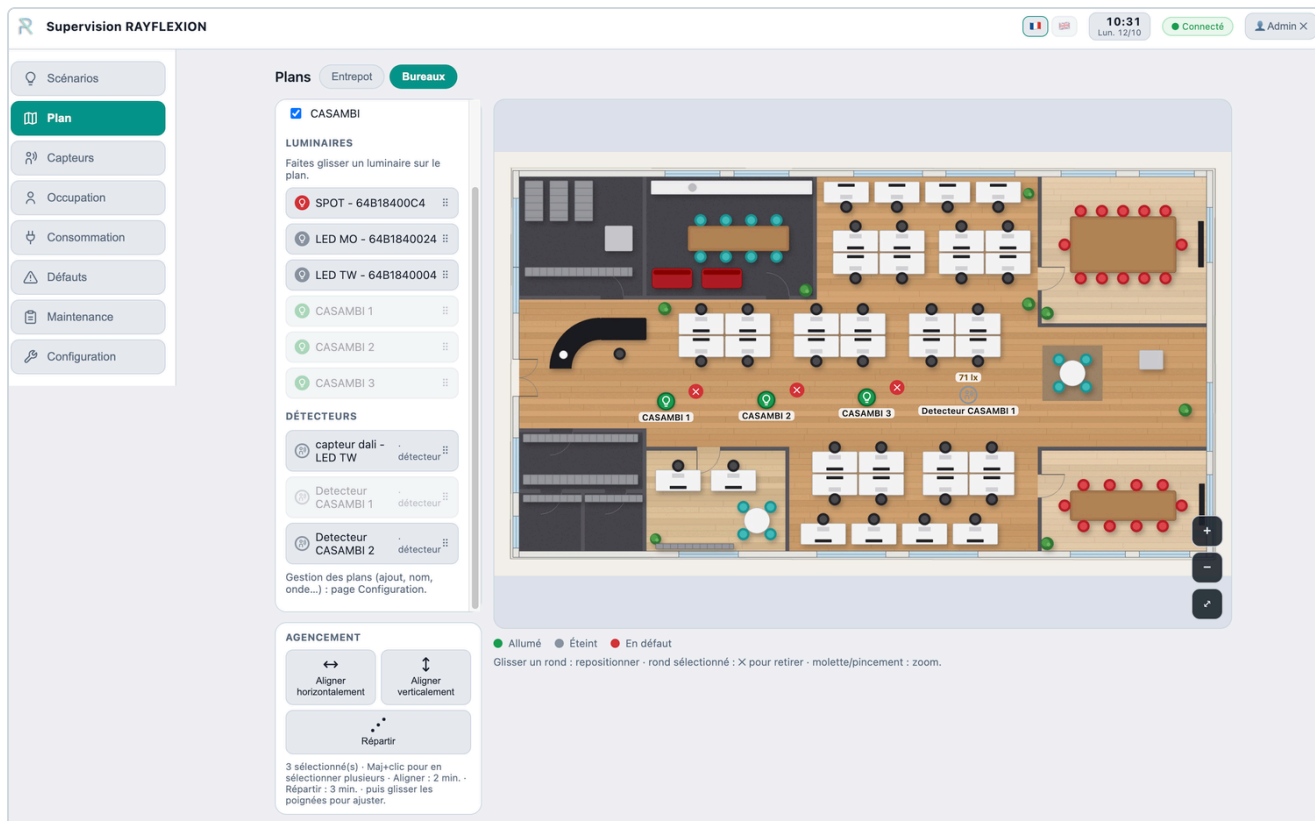
Reading the plan

Marker	Meaning
Green dot	Luminaire on
Grey dot	Luminaire off
Red dot	Luminaire faulty
Sensor pictogram	Presence / light sensor; the lux value is shown next to it, and an animated wave indicates detected presence

Navigation: + / – buttons (zoom) and ↻ (fit to window) at the bottom right; mouse wheel or pinch to zoom; drag to move the plan.

Positioning luminaires (administrator): the side panel only appears in administrator mode.

- **Groups:** check boxes to show or hide groups on the plan.
- **Luminaires** and **Sensors:** lists of all known devices (a device already placed on the plan is greyed out). **Drag** a device from the list onto the plan to place it.
- **Reposition** a dot: drag it. **Remove** a dot: select it then click X.
- **Layout:** alignment tools for a tidy placement — **Shift + click** to select several dots, then **Align horizontally** / **Align vertically** (2 markers minimum) or **Distribute** (3 markers minimum, even spacing; then fine-tune with the handles).



Floor plan — layout tools

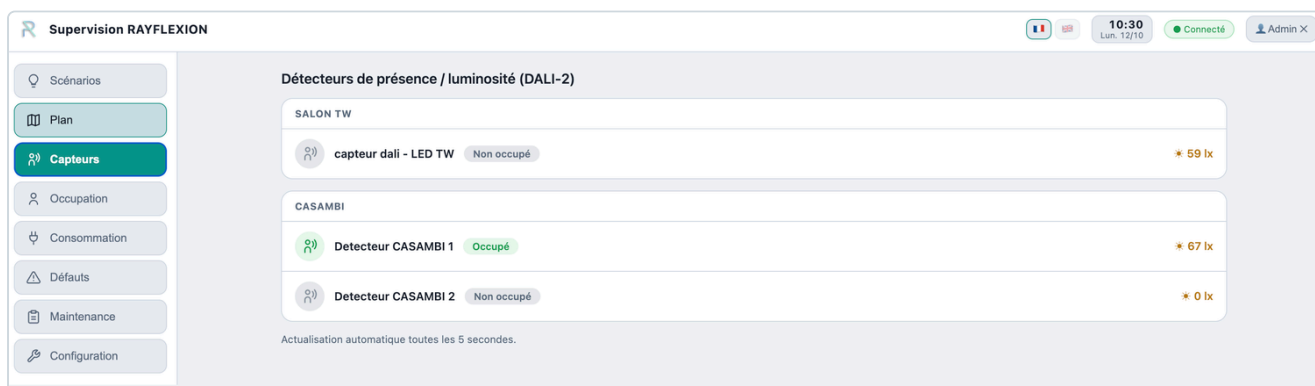
The management of the plans themselves (adding, name, order, presence wave) is done in **Settings > Floor plans** (§ 6.4).

4.3 Sensors

List of all **presence and light sensors** (DALI-2 and CASAMBI), sorted by group. For each sensor:

- the **Occupied** (green) or **Vacant** (grey) status;
- the **measured light level in lux**.

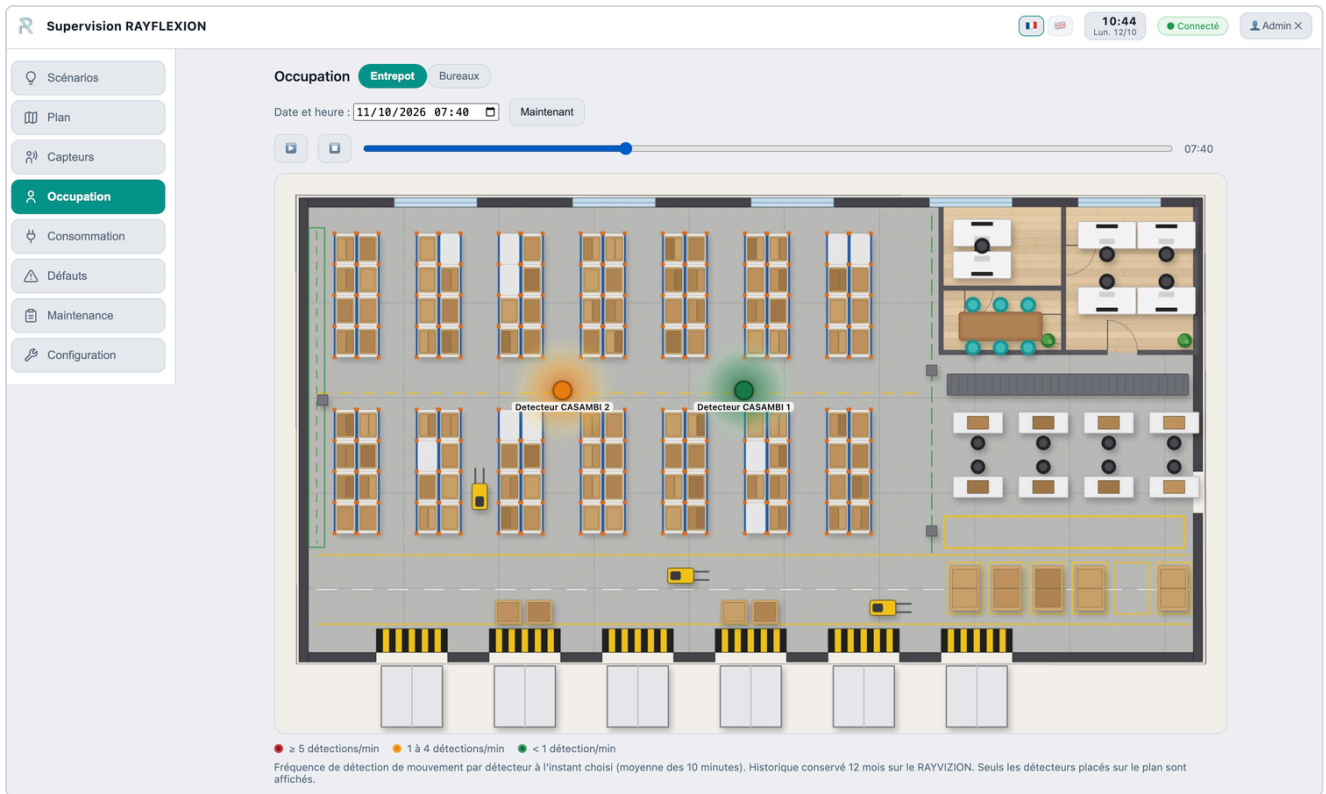
The page refreshes automatically **every 5 seconds**.



Sensors page

4.4 Occupancy

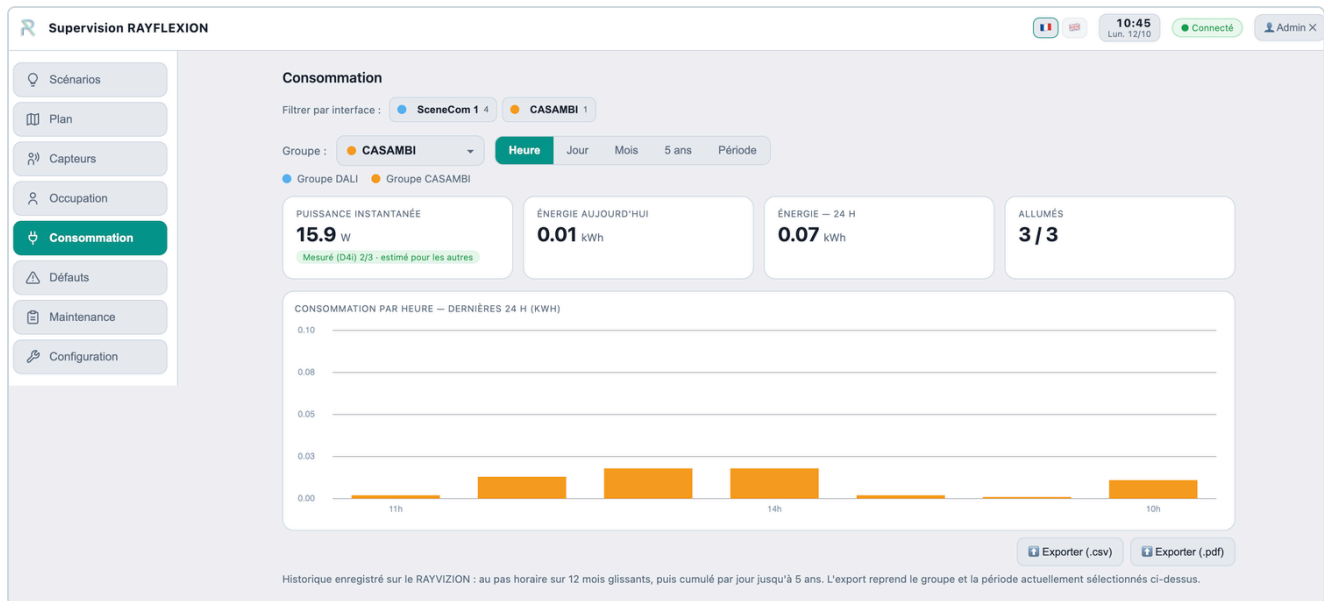
Traffic map: on each plan, the page displays the motion detection frequency of each sensor (10-minute average). Only sensors **placed on the plan** are shown.



Occupancy page

- **Tabs:** one per plan.
- **Date and time:** choose the moment to display; **Now** returns to the present time.
- **Replay of the day:** ▶ plays, ⏸ pauses, ⏹ stops and returns to the start; the **slider** moves in 10-minute steps.
- **Legend:** red = 5 detections per minute or more; orange = 1 to 4 detections per minute; green = fewer than 1 detection per minute.
- History is kept for **12 months**.

4.5 Energy



Energy page

Controls

- **Group:** drop-down list (“General” = sum of all groups, or a specific group). DALI groups are marked in blue, CASAMBI groups in orange.
- **Period:** Hour, Day, Month, 5 years or **Period** (choice of dates “From ... to ...”).
- **Export (.csv)** and **Export (.pdf):** reproduce the displayed group and period.

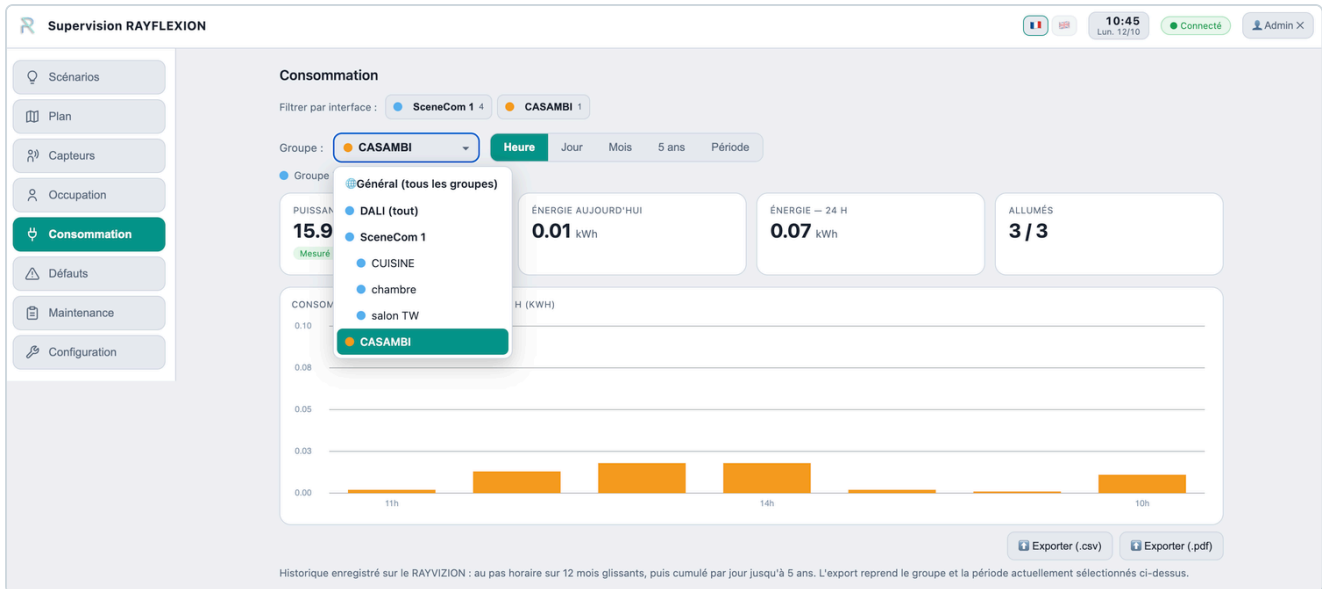
Summary cards

Card	Content
Instant power	In watts, with a badge showing the origin of the value (see below)
Energy today	In kWh
Energy — range	Energy over the chosen period
On	Number of luminaires that are on

Measurement origin badge: “Measured (D4i)” (real driver measurement), “Measured (D4i) x/y · estimated for the others” or “Estimated” (rated power × dimming level). If the expected measurement is missing, the message under the badge gives the cause (for example: DALI polling disabled in the sceneCOM).

Source priority for each luminaire: 1. energy meter, 2. “Current Power Consumption”, 3. estimate. A measurement is never corrected by the dimming curve; it is abandoned in favour of the estimate if it is not renewed for 45 minutes.

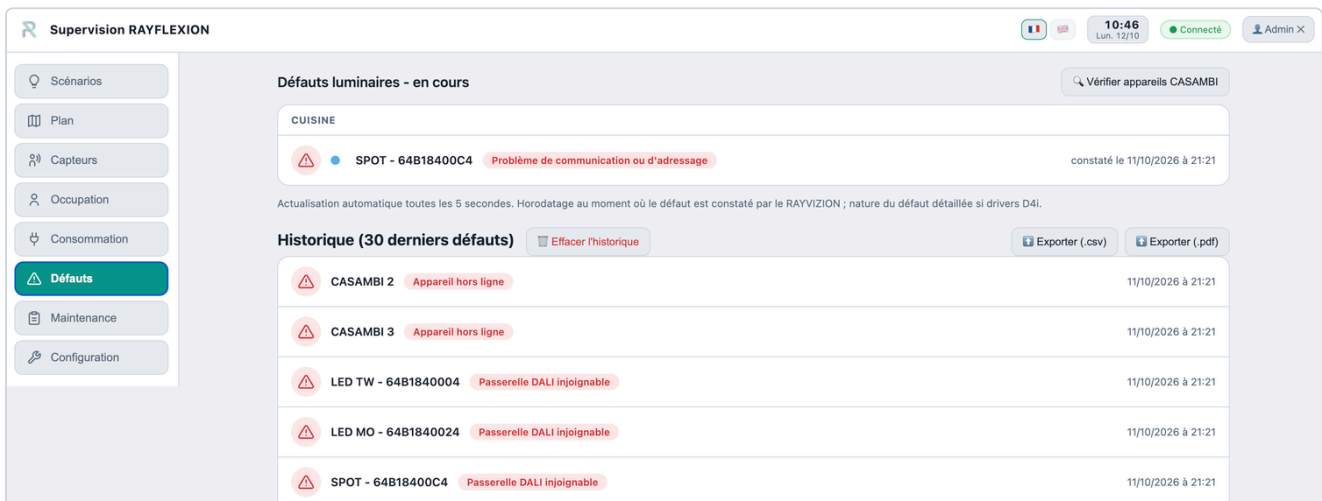
History: stored on the RAYVIZION **hour by hour over a rolling 12 months**, then **accumulated per day up to 5 years**. The “General” total is the sum of the groups only. For a custom period longer than 48 h, the detail is shown per day; an hour-by-hour chart is no longer available beyond 12 months back. Recording starts at commissioning; a factory reset erases the whole history.



Energy — list view

4.6 Faults

The page is divided into two parts.



Faults page

Luminaire faults — current: list, by group, of the luminaires currently faulty, with a **red tag** showing the **fault type** and the time at which RAYVIZION recorded it. The list refreshes **every 5 seconds**.

History (last 30 faults): one entry per occurrence of a fault (no duplicate while the fault persists), kept after resolution and after a restart. **Export (.csv)** and **Export (.pdf)** buttons; **Clear history** (administrator).

4.6.1 Fault types displayed

The red tag indicates the nature of the fault: **communication or addressing problem**, **DALI gateway unreachable**, **driver fault**, **lamp fault** or **device offline** (CASAMBI). Driver and lamp faults require the settings of § 3.2.2.

4.6.2 Fault time

The time displayed (“recorded on ...”) is the time at which **RAYVIZION records** the fault, not the time at which it appeared on the driver. A communication fault (≤ 3 min) is recorded sooner than a lamp or driver fault (up to ≈ 19 min).

4.6.3 “Check CASAMBI devices” (administrator)

This button, at the top right, detects CASAMBI luminaires that were **already offline before the gateway restarted** (which the gateway cannot report by itself). It **switches all luminaires known** to the chosen gateway **on to 100 %** (a selector appears if there are several gateways), waits a few seconds, then marks as “Device offline” those that did not respond.

- A **confirmation** is requested before running.
- **There is no automatic return to the previous state: recall a scene afterwards** to bring the lighting back to normal.
- No effect on DALI. Sensors are not concerned.
- This check also runs automatically **2 minutes after each start** of the RAYVIZION, on all declared CASAMBI gateways.

4.7 Maintenance

Dated log of interventions. Each entry records the **technician** (last name, first name), the **company**, the **date** and **notes** (work done, observations, replaced parts, recommendations).

The screenshot shows the 'Maintenance' page of the RAYVIZION interface. The page has a sidebar on the left with navigation options: Scénarios, Plan, Capteurs, Occupation, Consommation, Défauts, Maintenance (highlighted), and Configuration. The main content area is titled 'Maintenance' and includes a description: 'Consignez ici les interventions de maintenance (rapport daté). Chaque entrée enregistre l'intervenant, l'entreprise, la date et vos annotations. Le rapport complet peut être exporté.' Below this is a form with fields for 'Nom' (Lucas), 'Prénom' (Helias), 'Entreprise' (RAYFLEXION), and 'Date' (08/10/2026). There is a large text area for 'Annotations : opérations réalisées, observations, pièces remplacées, préconisations...'. A green button '+ Ajouter au rapport' is at the bottom right of the form. Below the form is a section 'Historique des interventions' with two buttons: 'Exporter (.txt)' and 'Exporter (.csv)'. It displays a list of interventions, with the first one showing the date '08/10/2026', the technician 'Helias Lucas - RAYFLEXION', a status 'Fait' (green circle), and a description 'Mise à jour des éléments DALI et CASAMBI'. There is also a 'Supprimer' button for each entry.

Maintenance page

1. Fill in the **Name**, **First name**, **Company**, **Date** fields and the notes text.
2. Click “**+ Add to report**”.
3. The **intervention history** is displayed below; **Export (.txt)** or **(.csv)** produces the full report.
4. For better follow-up, click “**Done**” (green) or “**To do**” (red) on an intervention: the status is saved, and for “Done” the date, time and the person who ticked it are displayed next to it. Clicking the active button again deactivates it. **Delete** removes the intervention.

4.8 Settings

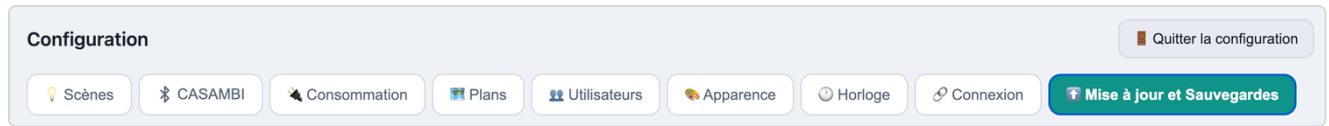
Page reserved for the administrator, detailed in chapter 6. The “**Quit settings**” button returns to the monitoring pages.

5. Daily e-mail report

RAYVIZION can send every day (or on chosen days) a report with the **faults** and/or **energy consumption** recorded since the last send. The setting is in **Settings > Connection > Daily report** (see § 6.8.5). The report uses the same fault labels as the Faults page. The RAYVIZION must be able to reach the SMTP server entered.

6. Description of the Settings tab

The **Settings** page (administrator) has nine tabs. Changes are saved automatically unless stated otherwise.



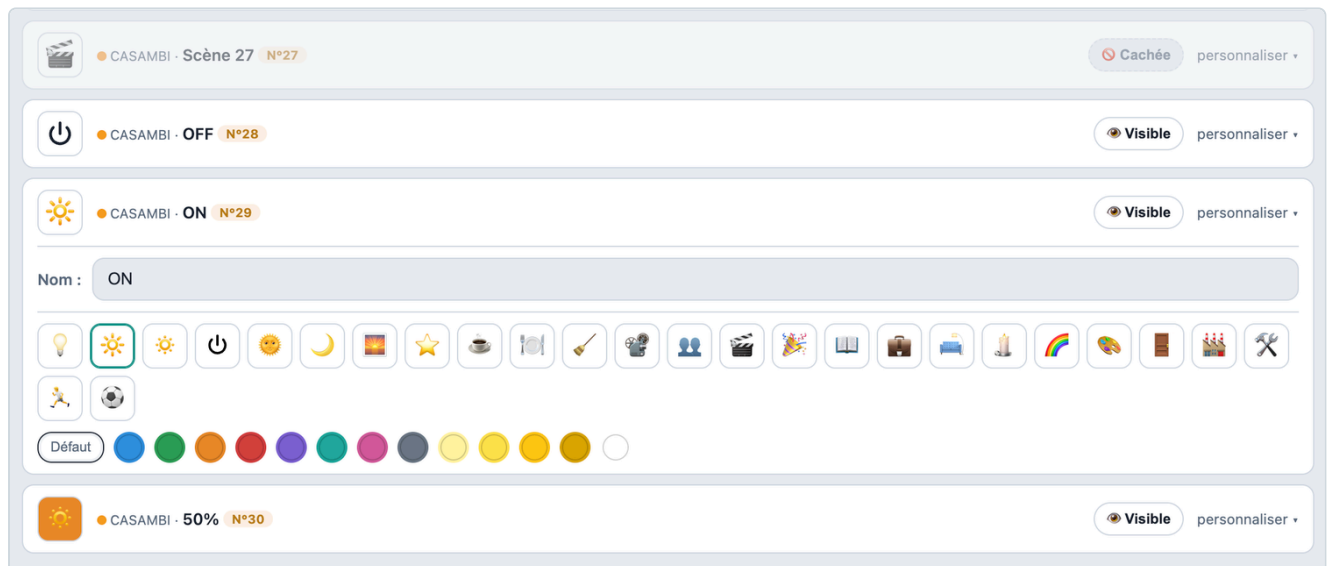
Settings — tab bar

6.1 Scenes

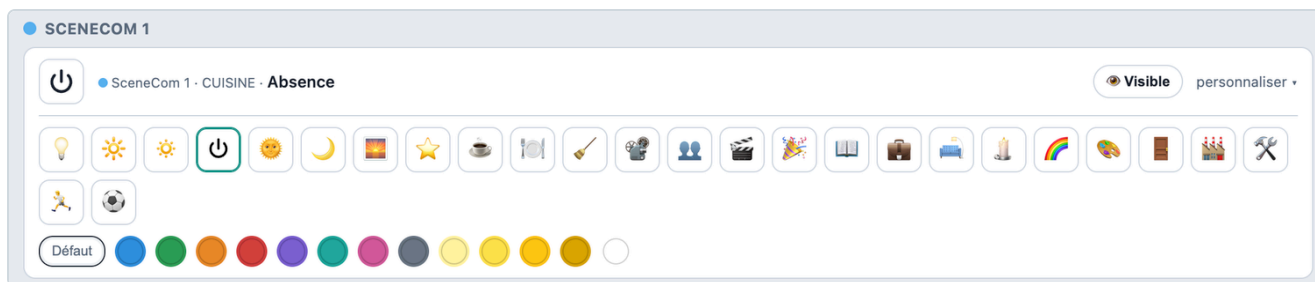
Scene list. Scenes are **retrieved automatically** from the sceneCOM units and CASAMBI gateways. A “Filter by interface” bar allows showing only one interface. Each scene is a row containing:

- the current **pictogram**, the interface chip, the **name** and, for CASAMBI, its number (**No.**);
- the **Visible / Hidden** button: a hidden scene no longer appears on the Scenes page;
- “**customise ▼**”, which expands: the **Name** field (reserved for **CASAMBI** scenes, which are identified by a number), the **pictogram** palette (about thirty) and the button **colour** palette (the “Default” button restores the original colour).

Renaming: a **DALI** scene **cannot be renamed** (its name comes from the sceneCOM: change it in the sceneCOM). **CASAMBI** scenes, which are displayed with a number, can be renamed.



Settings > Scenes — customising a CASAMBI scene



Settings > Scenes — DALI scenes

View the CASAMBI scene number. Trigger a scene from the CASAMBI app, then click “**Read**”: the scene number is displayed. Allow about 20 seconds after triggering before the information is available. Useful to identify a scene that has just been created.

VOIR LE NUMÉRO DE LA SCÈNE CASAMBI

Déclenchez une scène depuis l'app CASAMBI, puis cliquez sur « Lire » pour afficher son numéro — pratique pour identifier une scène tout juste créée. Comptez environ 20 secondes après le déclenchement avant que l'information soit disponible (délai propre au protocole CASAMBI).

Lire

Cliquez sur « Lire » après avoir déclenché une scène dans l'app CASAMBI.

Settings > Scenes — reading the CASAMBI scene number

Digital inputs (pulse dry contacts). The RAYVIZION has 8 opto-isolated inputs. For each input **1 to 7**, choose one or more scenes in the drop-down list: a **pulse** on the dry contact recalls all the chosen scenes, **one after the other**. “— None —” disables the input. The number of scenes per input is limited by the licence (shown under the title). For a CASAMBI gateway, the list also offers the virtual entry “**Resume automation**”. **Input 8** is reserved for the IP address reset.

ENTRÉES TOR (CONTACTS SECS IMPULSIONNELS)

Le RAYVIZION dispose de 8 entrées opto-isolées. Assignez à chaque entrée (1 à 7) une ou plusieurs scènes : une impulsion sur le contact sec déclenche le rappel de toutes les scènes choisies, l'une après l'autre. Laissez « — Aucune — » pour désactiver une entrée. L'entrée 8 est réservée à la réinitialisation IP (maintien 20 s), voir Configuration > Connexion.

Cette unité : jusqu'à 3 scènes par entrée (licence).

Entrée 1	CASAMBI · 🔄 Reprendre l'autor	chambre · Travailler	— Aucune —
Entrée 2	— Aucune —		
Entrée 3	— Aucune —		
Entrée 4	— Aucune —		
Entrée 5	— Aucune —		
Entrée 6	— Aucune —		
Entrée 7	— Aucune —		

Settings > Scenes — digital inputs

6.2 CASAMBI

- **Consumption groups:** rename the **10 virtual groups** available (“Group 1” to “Group 10”) to attach CASAMBI devices to them (examples: “Kitchen”, “First floor”). The name is displayed everywhere the group appears, including the Energy and Faults pages.
- **Luminaires and sensors:** rename each CASAMBI device (“Custom name” field) to find it easily and place it on the plan, and **assign it a group**. There is no pictogram or colour here. A **Gateway**

selector appears if there are several, as well as a sort (address, A–Z, Z–A).

Configuration

Quitter la configuration

ScènesCASAMBIConsommationPlansUtilisateursApparenceHorlogeConnexionMise à jour et Sauvegardes

CASAMBI

GROUPES DE CONSOMMATION

Renommez les 10 groupes disponibles pour rattacher un appareil CASAMBI dans la liste ci-dessous (ex. "Cuisine", "Étage"...) — le nom personnalisé s'affiche partout où ce groupe apparaît (ici et dans la page Consommation).

Groupe 1

Groupe 2

Groupe 3

Groupe 4

Groupe 5

Groupe 6

Groupe 7

Groupe 8

Groupe 9

Groupe 10

LUMINAIRES ET DÉTECTEURS

Renommez les luminaires et détecteurs CASAMBI pour les retrouver plus facilement et les positionner sur le Plan — le nom personnalisé s'affiche aussi sur la carte. Pas de pictogramme ni de couleur ici, uniquement le nom.

Trier par : AdresseA-ZZ-A

Luminaire 135

CASAMBI 1

Visible

— Consommation ⚙

Retirer

Luminaire 142

CASAMBI 2

Visible

— Consommation ⚙

Retirer

Luminaire 143

CASAMBI 3

Visible

— Consommation ⚙

Retirer

Capteur 141

Detecteur CASAMBI 1

Visible

Retirer

Capteur 144

Detecteur CASAMBI 2

Visible

Retirer

Settings > CASAMBI

6.3 Energy

Configuration

Quitter la configuration

ScènesCASAMBIConsommationPlansUtilisateursApparenceHorlogeConnexionMise à jour et Sauvegardes

Consommation

PUISSANCE NOMINALE DES LUMINAIRES (W)

Lorsque les drivers D4i remontent leur consommation réelle, RAYVIZION utilise cette mesure (badge « Mesuré (D4i) »). Pour les autres luminaires, la consommation est estimée (P nominale x niveau de gradation). À droite de chaque puissance, choisissez la courbe de gradation utilisée pour l'estimation : Logarithmique (défaut, courbe standard DALI) ou Linéaire (puissance proportionnelle au niveau).

Pour récupérer les bonnes informations de consommation, il faut penser à activer les fonctions dans le contrôleur DALI. Les premières valeurs apparaissent au bout de 15 minutes environ.

Trier par : AdresseA-ZZ-A

Filtrer par interface : SceneCom 13CASAMBI 3

CUISINE

SPOT - 64B18400C4

10W

LinéaireLogarithmique

CHAMBRE

LED MO - 64B1840024

Mesuré (D4i) : 15 W

10W

LinéaireLogarithmique

D4i

SALON TW

LED TW - 64B1840004

10W

LinéaireLogarithmique

CASAMBI

CASAMBI 1

W

LinéaireLogarithmique

CASAMBI 2

Mesuré (D4i) : 15.9 W

W

LinéaireLogarithmique

CASAMBI 3

Mesuré (D4i) : 0 W

W

LinéaireLogarithmique

Settings > Energy

- **Rated power of luminaires (W):** enter the power of each luminaire. It is used to **estimate** consumption when no measurement is available (rated power × dimming level).
- **Dimming curve** (to the right of each power): **Logarithmic** (default for DALI, standard curve) or **Linear** (power proportional to level, default for CASAMBI).
- **D4i measurement:** when a D4i driver reports its real consumption, the measured value is displayed in the row (“**Measured (D4i): 15 W**”) and replaces the estimate. A **switch** to the right of the row enables or disables the use of this measurement for the device; disabling it never changes the history already recorded. The **D4i** mention in a group header indicates that it contains measurable devices.
- **Sort and filter:** “Sort by” (Address, A–Z, Z–A) and “Filter by interface”.
- The first measured values appear **about 15 minutes** after the functions are enabled in the sceneCOM (§ 3.2.2).
- For a CASAMBI module with one or more D4i drivers behind it (CBU-ASD, CBU-DCS), RAYVIZION adds up the measured powers and displays them for the whole module; the module is recognised automatically.

6.4 Floor plans

Settings > Floor plans

- **List of plans:** one row per plan, with
- the **≡** handle: hold and drag to **change the order** (order of the tabs on the Floor plan and Occupancy pages);
- the **name** of the plan (editable);
- the **visible** checkbox;
- “**Image**”: replaces the plan image (or drag a file onto the row);
- **🗑**: deletes the plan and the positions of its devices (after confirmation).
- **Drop zone:** drag and drop one or more plans (**JPEG, PNG or PDF**) or click to browse.
- **Sensor presence wave:** **Period** (2 to 60 s) and **Radius** (20 to 300 px) of the animated wave shown around a sensor that detects presence.

The placement of luminaires and sensors is done on the **Floor plan** page (§ 4.2).

6.5 Users

Up to **5 users** in **viewer mode**. As soon as at least one exists, the dashboard asks for an **access code** when opened (the administrator code always works).

Configuration

Quitter la configuration

Scènes

CASAMBI

Consommation

Plans

Utilisateurs

Apparence

Horloge

Connexion

Mise à jour et Sauvegardes

Utilisateurs (mode lecteur)

Jusqu'à 5 utilisateurs. Chaque utilisateur entre son code à l'ouverture du tableau de bord et ne voit que ce qui est coché ci-dessous, page par page. S'il existe au moins un utilisateur, le tableau de bord demande un code à l'ouverture (le code administrateur fonctionne toujours).

Utilisateur 1

.....

Scénarios

☒ Général
 ☐ CUISINE
 ☐ chambre
 ☐ salon TW
 ☐ CASAMBI

Plans affichés

☒ Entrepot
 ☒ Bureaux

Capteurs

☐ CUISINE
 ☐ chambre
 ☐ salon TW
 ☐ CASAMBI

Plans d'occupation affichés

☒ Entrepot
 ☒ Bureaux

Consommation

☐ Général (tous les groupes)
 ☐ CUISINE
 ☐ chambre
 ☐ salon TW
 ☐ CASAMBI

Défauts

☐ CUISINE
 ☐ chambre
 ☐ salon TW
 ☐ CASAMBI

Maintenance

☒ Page visible

+ Ajouter un utilisateur

Settings > Users

For each user:

- **Name** and **access code**. The code is never displayed again: “Code set — type to change”; leaving it empty keeps the current code.  deletes the user.
- **Rights per page**, matching the menu:
- **Scenes**: “General” and/or authorised groups;
- **Displayed plans**: visible plans;
- **Sensors**: authorised groups;
- **Displayed occupancy plans**: plans visible on the Occupancy page;
- **Energy**: “General (all groups)” and/or authorised groups;
- **Faults**: authorised groups;
- **Maintenance**: “Page visible”.
- **+ Add a user** (hidden when all 5 are created).

Good practice: tick only what is necessary (least access). Do not use people's names in groups, plans or scenes.

6.6 Appearance

The screenshot shows the 'Apparence' configuration page. At the top, there's a 'Configuration' header with a 'Quitter la configuration' button. Below it is a navigation bar with buttons for 'Scènes', 'CASAMBI', 'Consommation', 'Plans', 'Utilisateurs', 'Apparence' (highlighted), 'Horloge', 'Connexion', and 'Mise à jour et Sauvegardes'. The main content area is titled 'Apparence' and contains three sections: 'NOM DE L'APPLICATION' with a text field containing 'Supervision RAYFLEXION'; 'LOGO' with a logo icon and two buttons 'Choisir un logo' and 'Supprimer le logo'; and 'THÈME' with two radio buttons, 'Sombre' and 'Clair' (selected).

Settings > Appearance

- **Application name:** text displayed at the top left and on the login screen.
- **Logo:** “Choose a logo” / “Remove logo”.
- **Theme:** Dark or Light.

6.7 Clock

The screenshot shows the 'Horloge' configuration page. At the top, there's a 'Configuration' header with a 'Quitter la configuration' button. Below it is a navigation bar with buttons for 'Scènes', 'CASAMBI', 'Consommation', 'Plans', 'Utilisateurs', 'Apparence', 'Horloge' (highlighted), 'Connexion', and 'Mise à jour et Sauvegardes'. The main content area is titled 'Horloge' and contains several sections: a header with the text 'Date, heure et fuseau horaire du RAYVIZION. Vous pouvez les aligner en un clic sur l'ordinateur utilisé, ou laisser la synchronisation automatique par Internet (NTP).'; a large display showing '10:59:56' and 'Fuseau du RAYVIZION : Europe/Paris' with the date 'lun. 12 octobre 2026'; a section 'SYNCHRONISER SUR CET ORDINATEUR' showing 'Heure de l'ordinateur 22:20:02 · dim. 11 octobre 2026' and 'Fuseau de l'ordinateur Europe/Paris' with a 'Synchroniser depuis cet ordinateur' button; a 'FUSEAU HORAIRE' section with a dropdown menu set to 'Europe/Paris' and an 'Appliquer le fuseau' button; and a 'SYNCHRONISATION AUTOMATIQUE (NTP)' section with a checked checkbox 'Mettre l'heure à jour automatiquement par Internet' and a 'Serveur NTP' field containing 'fr.pool.ntp.org'. A footer note states: 'Sur un site sans Internet, décochez le NTP et utilisez la synchronisation depuis l'ordinateur. Le RAYVIZION conserve l'heure hors tension grâce à son horloge interne (RTC), puis se recale au démarrage si le réseau est disponible.'

Settings > Clock

The time of the RAYVIZION timestamps faults, histories and reports: it must be accurate.

- **Current time** and **time zone** of the RAYVIZION.
- **Synchronise from this computer:** aligns in one click the date, time and time zone of the RAYVIZION with the computer in use (the computer's time and time zone are displayed for comparison).

- **Time zone:** list + “**Apply time zone**” button.
- **Automatic synchronisation (NTP):** box “Update time automatically over the Internet” and **NTP server** (default `fr.pool.ntp.org`).
- On a site **without Internet**, untick NTP and use synchronisation from the computer. The RAYVIZION keeps the time when unpowered thanks to its internal clock (RTC), then re-synchronises at start-up if the network is available.

6.8 Connection

Connexion

RAYVIZION

Licence : 2 / 3 appareils (DALI + Casambi)

N° RV-100-0001

Voir les informations réseau

« Voir les informations réseau » interroge le RAYVIZION et affiche son adresse IP, son masque de sous-réseau et sa passerelle réels. Pour les changer, utilisez la section ci-dessous.

CHANGER L'IP RÉSEAU DU RAYVIZION

Cette adresse est **permanente** (elle survit aux redémarrages). L'adresse d'usine (192.168.10.150) ne sert qu'en réglage initial ou en dépannage (maintien 20 s du contact sur l'entrée TOR n°8, réservée à cet usage).

IP

Masque

Passerelle

Changer l'IP du RAYVIZION

Settings > Connection — RAYVIZION

6.8.1 RAYVIZION

- The **licence** (“Licence: 2 / 3 devices (DALI + Casambi)”: devices declared out of the number allowed) and the **serial number** of the unit are shown next to the title.
- **View network information:** displays the real IP address, mask and gateway of the RAYVIZION.
- **Change the RAYVIZION network IP:** **IP**, **Mask** and **Gateway** fields, then “**Change the RAYVIZION IP**”. This setting is **permanent** (it survives restarts) and the page loses the connection after a few seconds: reconnect to the new address. The factory address (192.168.10.150) is only for initial setup or troubleshooting: **holding the contact on digital input no. 8 for 20 seconds** restores it.

6.8.2 DALI gateways

One row per sceneCOM (the maximum number depends on the licence), with:

- **Name** (displayed in RAYVIZION, for example “SceneCom 1”);
- **IP address** of the sceneCOM;
- **API client:** name of the client created in the “REST API & MQTT” application (§ 3.2.1), for example “RAYVIZION”. **Optional:** left empty, RAYVIZION communicates through the REST API only; filled in, it adds **real-time MQTT** (§ 3.2.1). Every declared sceneCOM can be in real time;
- **API token** created in the “REST API & MQTT” application (§ 3.2.1), masked on entry;
- **OK** (saves the row) and  (deletes the gateway).

“+ Add a DALI gateway” creates a row. Compatible with sceneCOM firmware 4.0 minimum.

PASSERELLES DALI

Compatible sceneCOM firmware V4.0 minimum. Compatible Litecom. Ajoutez une ligne par passerelle (jeton créé dans l'app « REST API & MQTT » de chaque sceneCOM). Le nombre maximum de passerelles DALI dépend du modèle de RAYVIZION.

SceneCom 1

192.168.10.105

.....

Valider

+ Ajouter une passerelle DALI

PASSERELLES CASAMBI (LITHERNET)

Compatible passerelle Lithernet firmware 4.35 minimum (réseaux Casambi Evolution ≥ 39.50), communication MQTT : une ligne par passerelle (chaque passerelle relie un ou plusieurs réseaux CASAMBI). Le Net ID doit être le même numéro (0-254) que celui réglé dans l'interface web de la passerelle (Réglages généraux > MQTT).

CASAMBI

192.168.10.107

0

Valider

Découvrir les appareils

+ Ajouter une passerelle

Settings > Connection — DALI gateways

6.8.3 CASAMBI gateways (Lithernet)

One row per gateway (each links one or more CASAMBI networks), with:

- **Name**;
- **IP address** of the gateway (optional: information only);
- **Net ID** (0 to 254): **identical** to the one set in the gateway (Bridge ID, § 3.3.1);
- **OK**, **Discover devices** (§ 6.8.4) and .

“+ Add a gateway” creates a row. The Net ID must match and the gateway must be within the licence limit: otherwise nothing is reported.

6.8.4 “Discover devices” (CASAMBI)

Discover devices” button on the row of each CASAMBI gateway. It sends a **broadcast command to 100 %** to the whole network of the gateway: all reachable devices (luminaires and sensors) declare themselves and appear in RAYVIZION within a few seconds.

- **To be done only once at commissioning**: RAYVIZION then remembers the devices, even after a power cut or restart.
- A **confirmation** warns that all devices will switch on to 100 %. **Recall a scene afterwards** (no automatic return to the previous state).
- A device that has never been reachable (unplugged) will appear as soon as it is powered again.

6.8.5 Daily report (e-mail)

RAPPORT QUOTIDIEN

Envie automatiquement un rapport par e-mail aux jours et à l'heure choisis, avec les défauts et/ou la consommation d'énergie constatés depuis le dernier envoi. Le RAYVIZION doit pouvoir joindre le serveur SMTP indiqué ci-dessous.

☐

Activer l'envoi automatique

HEURE D'ENVOI

08:00

JOURS D'ENVOI

Lun

Mar

Mer

Jeu

Ven

Sam

Dim

CONTENU

Défauts

Consommation

Les informations correspondront à la période depuis le dernier envoi.

DESTINATAIRES

Destinataire(s), séparés par une virgule

SERVEUR SMTP

Serveur (ex. smtp.exemple.com)

587

STARTTLS (port 587)

Identifiant (optionnel)

Mot de passe

Adresse expéditeur (ex. rayvizion@example.com)

Enregistrer

Envoyer un e-mail de test

Aucun envoi pour l'instant.

Settings > Connection — daily report

Item	Role
Enable automatic sending	Enables the report
Send time	Time of the report (08:00 by default)
Send days	Days of the week concerned
Content	Faults and/or Energy consumption since the last send
Recipients	Addresses separated by a comma
SMTP server	Server, port (587 by default) and security: STARTTLS (587), SSL/TLS (465) or None (unencrypted)
User name / Password	SMTP account (user name optional)
Sender address	Sending address (for example rayvizion@example.com)
Save	Saves the settings
Send a test e-mail	Checks the configuration

The SMTP password is **not** included in backups and must be re-entered after a factory reset. The report contains no personal data; the recipient's address is personal data.

Version 1.0

www.rayvizion.com

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6.8.6 Administrator code and secured MQTT

CODE ADMINISTRATEUR

Code actuel

Nouveau code (4 min.)

Valider

Ces paramètres sont stockés sur le RAYVIZION (jamais envoyés aux navigateurs des utilisateurs).

Settings > Connection — administrator code

Administrator code: enter the **current code** and the **new code** (4 characters minimum), then **OK**. The code is stored encrypted: it cannot be read back.

Default administrator code: 54321. It gives access to the **Settings** section. It is the same on all new RAYVIZION units and therefore known to everyone: **it must be changed at commissioning** to ensure the security of the installation.

To change the code: enter 54321 in “Current code”, then the new code, and click **OK**. If the new code is forgotten, contact RAYFLEXION (contact@rayvizion.com). A factory reset (§ 6.8.7) restores the default code.

MQTT SÉCURISÉ (PASSERELLE CASAMBI)

Par défaut, les passerelles se connectent sans mot de passe (port 1883). Générez un mot de passe (port protégé 1884), saisissez-le dans chaque passerelle, puis fermez le port sans mot de passe.

- **Configuré** — compte lithernet · port 1884 · mot de passe (11/10/2026 12:01)
- Port 1883 sans mot de passe fermé.

Générer un nouveau mot de passe...

Rouvrir le port sans mot de passe

Settings > Connection — secured MQTT

Secured MQTT (CASAMBI gateway): by default, the gateways connect without a password (port 1883).

1. Click “ **Generate the password...**”: the account (**lithernet**), the port (**1884**) and the **password** are displayed **only once** (hidden after 2 minutes). Note it in the installation file. A new password invalidates the old one.
2. On **each** Lithernet gateway (General Setting > System): **MQTT-Port = 1884**, **Authentication = active**, then this account and password.
3. Check that the CASAMBI devices still report.
4. When **all** gateways are reconfigured, click “ **Close the no-password port**”. The button allows reopening it at any time. A gateway that has not been reconfigured is disconnected as soon as the port is closed.

The link remains unencrypted (local network): authentication prevents access, not eavesdropping on the cable.

After restoring any backup, regenerate the MQTT password (if the MQTT connection is secured) and re-enter it in each Lithernet gateway. The MQTT password is not included in backups.

6.8.7 Factory reset of the RAYVIZION

The “⚠ **Reset the RAYVIZION...**” button deletes **all** configured data: plans and positions, users, sceneCOM and CASAMBI connections, powers, histories, backups, e-mail, administrator code (which returns to the factory code) and MQTT account. The serial number and the licence are kept. A **confirmation by a random 4-digit code** is requested.

To be done **before** any return, resale or disposal. The operation is final.

REMISE À ZÉRO DU RAYVIZION

Supprime toutes les données configurées sur ce RAYVIZION : plans et positions, utilisateurs, connexions sceneCOM et CASAMBI, puissances, historiques, sauvegardes, e-mail et code administrateur (qui revient au code par défaut). Le numéro de série, la licence et l'adresse réseau sont conservés. Action irréversible.

[⚠ Remettre le RAYVIZION à zéro...](#)

Factory reset — button

HEURE D'ENVOI
08:00

JOURS D'ENVOI
Lun Mar Mer Jeu Ven Sam Dim

CONTENU
⚠ Défauts ⚡ Consommation
Les informations correspondront à la période depuis le dernier envoi.

DESTINATAIRES
Destinataire(s), séparés par une virgule

SERVEUR SMTP
Serveur (ex. smtp.exemple.com)
Identifiant (optionnel)
Enregistrer Envoyer un e-mail de
Aucun envoi pour l'instant.

CODE ADMINISTRATEUR
Code actuel Nouveau code (4 min.) Valider

REMISE À ZÉRO DU RAYVIZION
Supprime toutes les données configurées sur ce RAYVIZION : plans et positions, utilisateurs, connexions sceneCOM et CASAMBI, puissances, historiques, sauvegardes, e-mail et code administrateur (qui revient au code par défaut). Le numéro de série, la licence et l'adresse réseau sont conservés. Action irréversible.
[⚠ Remettre le RAYVIZION à zéro...](#)

Remise à zéro du RAYVIZION
Êtes-vous sûr de vouloir remettre à 0 votre RAYVIZION ? Toutes les données configurées seront supprimées, de façon définitive. Si oui, tapez le code indiqué ci-dessous.
9 2 3 5
Code à 4 chiffres
Annuler Remettre à zéro

STARTTLS (port 587)
Adresse expéditeur (ex. rayvizion@exemple.com)

Factory reset of the RAYVIZION — code confirmation

6.9 Update and Backups

Mise à jour de l'interface

MISE À JOUR

Version installée : **v1.0.0**



Glissez-déposez le fichier de mise à jour (.rayup)
ou cliquez pour parcourir

⚠ Avant d'installer : consultez la **note de version (release note)** fournie avec le fichier, et vérifiez que les versions de vos passerelles DALI et de vos passerelles CASAMBI figurent bien parmi les versions prises en charge par cette mise à jour.

SAUVEGARDES

SAUVEGARDE ET RESTAURATION

Créez une sauvegarde complète des réglages avant une mise à jour ou une manipulation. Vous pourrez recharger cette sauvegarde plus tard pour tout retrouver à l'identique.

📄 Créer une sauvegarde

🔄 Restaurer une sauvegarde

SAUVEGARDES PERMANENTES (INTERNE)

Sauvegardes nommées, enregistrées directement sur le RAYVIZION. Elles ne sont jamais supprimées ni écrasées automatiquement.

📄 Sauvegarder

Aucune sauvegarde permanente.

SAUVEGARDES AUTOMATIQUES

Une sauvegarde est créée automatiquement toutes les 15 minutes sur le RAYVIZION, mais seulement s'il y a eu au moins un changement en mode administrateur depuis la précédente. Les 10 dernières sont conservées (les plus anciennes sont remplacées).

12/10/2026 10:46	🔄 Restaurer
12/10/2026 10:31	🔄 Restaurer

Settings > Update and Backups

6.9.1 RAYVIZION update

- **Installed version:** shown at the top of the block.
- **Drag and drop** the update file (**.rayup**) supplied by RAYFLEXION, or click to browse, then confirm. An update can bring display changes as well as new functions.
- **Sequence:** file upload (progress bar), check, installation, then **RAYVIZION restart** (pages unavailable for 1 to 3 minutes). The page follows the progress, then reloads: **log in again as administrator**. **Do not switch off the power** during the update.
- **Security:** the file is **encrypted** (its content cannot be read) and **signed** by RAYFLEXION. The RAYVIZION rejects any modified file or file from another origin, a version older than the installed one, or a file intended for another RAYVIZION.
- **If a problem occurs** during installation, the RAYVIZION **automatically goes back to the previous version**; the message says so and nothing is lost.
- Settings (floor plans, users, connections, histories), serial number and licence are **kept**.
- **Before installing:** read the **release note** supplied with the file and check that the versions of your DALI and CASAMBI gateways are among those supported. Create a backup first. Only install files supplied by RAYFLEXION.

6.9.2 Backups

- **Create a backup**: downloads a **.raybak** file containing all settings (plans, positions, powers, users, connections). **Restore a backup**: reloads a **.raybak** file.
- **Permanent backups (internal)**: **named** backups stored on the RAYVIZION (“ **Save**” button); they are never deleted or overwritten automatically.
- **Automatic backups**: a backup is created **every 15 minutes**, only if at least one change has been made in administrator mode since the previous one. The **last 10** are kept.

Good to know:

- **User codes** and **sceneCOM tokens** are encrypted with a key specific to each RAYVIZION: they can only be restored on the **same** RAYVIZION (on another one, re-enter them).
 - The file contains installation information (IP addresses, group names, plans): keep it as a confidential document, do not send it by unencrypted e-mail.
 - The **MQTT password** is **not** included in backups: **after any restore, regenerate it** (§ 6.8.6) and re-enter it in each Lithernet gateway, if the MQTT connection is secured. Until this is done, the CASAMBI devices do not report.
 - The **energy history is not included** in backups: export the data (.csv) before any major intervention.
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7. Commissioning checklist

1. Install and power the RAYVIZION (§ 2.1); change its **IP address** (§ 6.8.1).
 2. Check the **versions** of the gateways and of the CASAMBI module (§ 3.1).
 3. Set up the **sceneCOM**: API token, DALI data, Diagnostic profile, clock (§ 3.2).
 4. Set up the **Lithernet**: MQTT, Bridge ID, Polling Method (§ 3.3).
 5. Declare the gateways in **Settings > Connection**; for CASAMBI, **Discover devices** then recall a scene (§ 6.8).
 6. Check the **scenes** and customise names, pictograms, colours (§ 6.1); fill in the CASAMBI groups (§ 6.2).
 7. Enter the **rated powers** (§ 6.3); wait 15 to 35 minutes and check that the badge on the Energy page changes to “Measured (D4i)”.
 8. Add the **plans** and position luminaires and sensors (§ 6.4 and § 4.2).
 9. Set the **clock** (§ 6.7) and the **appearance** (§ 6.6).
 10. **Secure**: administrator code, users, gateway passwords, secured MQTT (§ 2.4, § 6.5, § 6.8.6).
 11. Set up the **e-mail report** if requested (§ 6.8.5) and create a **permanent backup** (§ 6.9.2).
 12. Provoke a fault (unplug a lamp, then a driver) and check the label and the delay (§ 4.6).
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8. Support

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