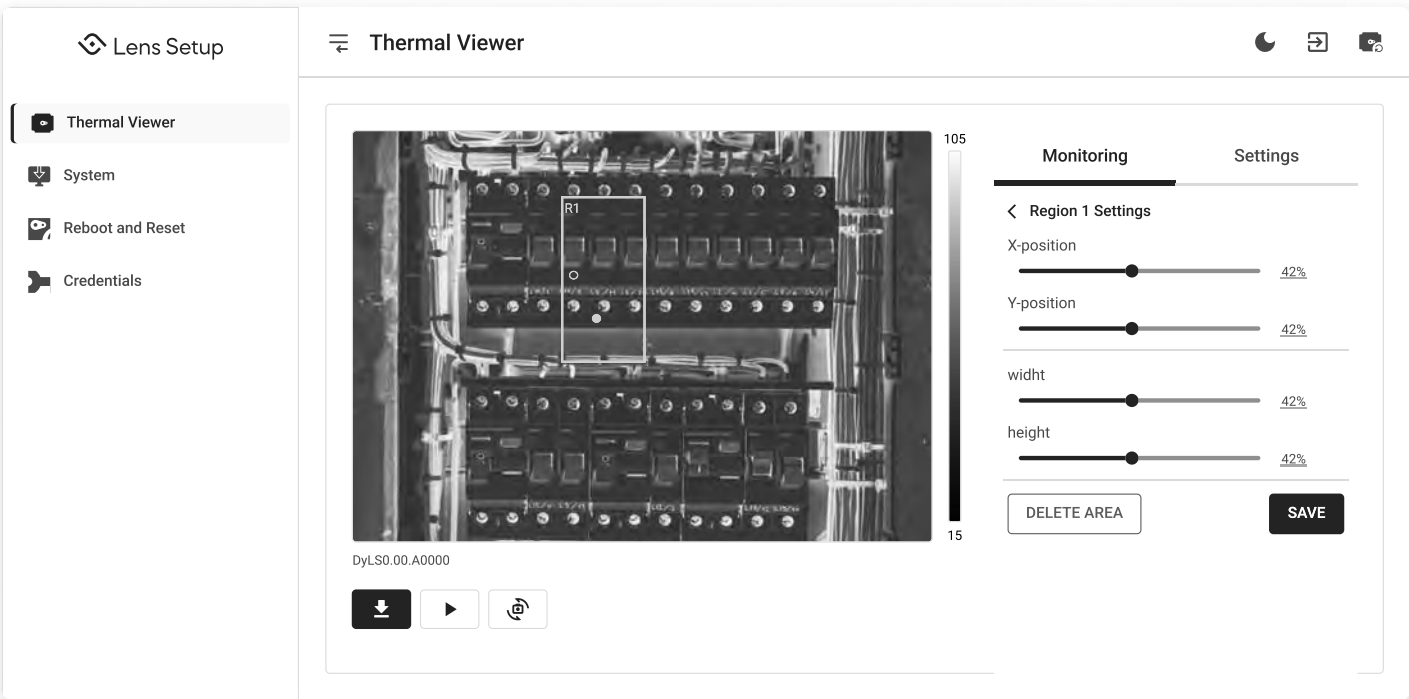
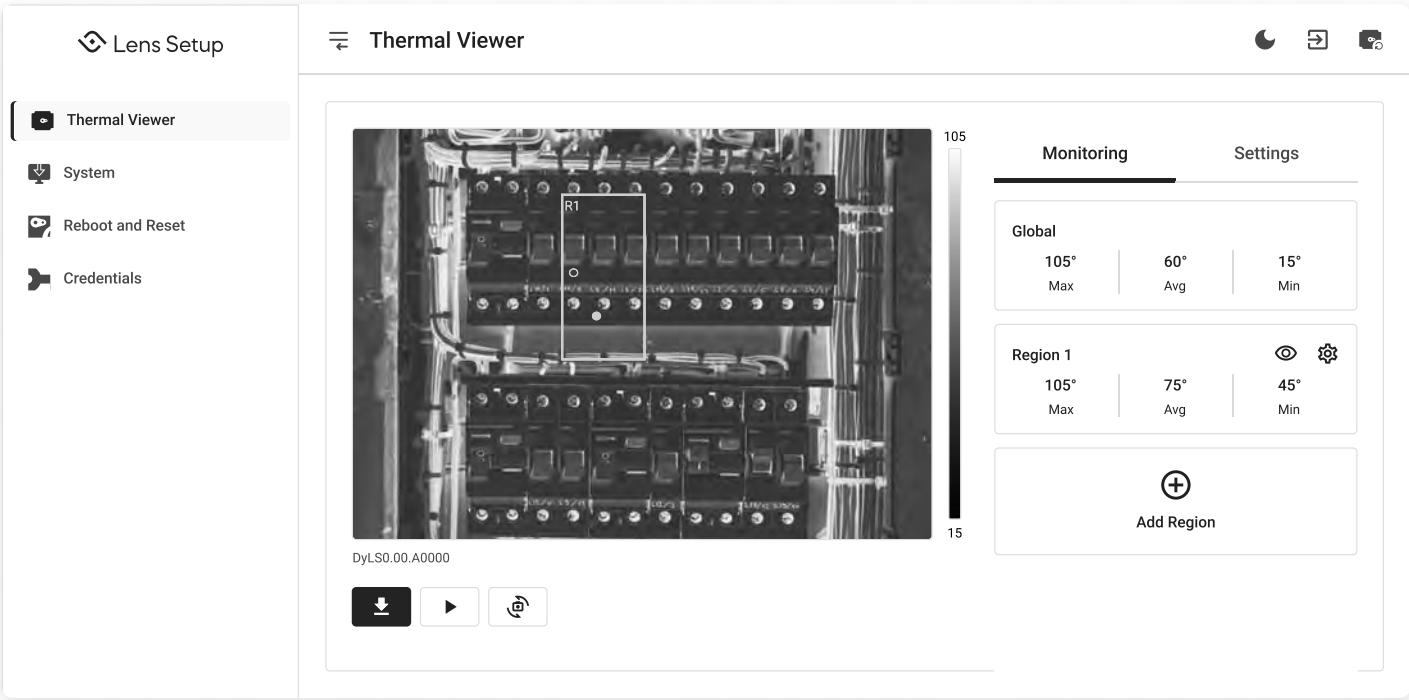


4.3.2.1 Creating monitoring regions

Up to 3 monitoring regions can be created within the image. To add a region, click **Add Region**. Then configure the desired region's position (X-position e Y-position) and dimensions (width and height). To finalize, click **Save**.

Region settings can also be accessed when editing a region via the button .

Regions are displayed by default in the **Thermal Viewer**. To disable the visualization of a region, click the icon  associated with it.



4.3.2.2 Configuring object parameters

In the **Settings** tab, the infrared camera can be configured according to the asset and/or location being monitored to ensure more accurate measurements.

The adjustable parameters include:

- **Emissivity:** represents the material's ability to emit thermal radiation. Correct configuration ensures accurate temperature readings.
- **Reflected Temperature:** an estimate of infrared radiation reflected by monitored objects, rather than emitted by them.
- **Humidity:** percentage of water vapor in the air. Must be configured to correct thermal radiation attenuation.
- **Distance:** distance between the camera and the object. It helps compensate for infrared radiation losses due to air absorption.
- **Temperature Range:** defines the minimum and maximum temperature limits the infrared camera can measure. Selecting the correct range improves accuracy and thermal contrast, avoiding saturation and distortion.

Additional settings to assist in visualization and object identification:

- **Color Palette:** defines the color scheme for displaying the thermal image. Different palettes highlight temperature variations.
- **Thermometric Scale:** sets the temperature unit used for thermographic analysis.

The screenshot displays the 'Thermal Viewer' application interface. On the left is a sidebar with a 'Lens Setup' header and a menu containing 'Thermal Viewer' (selected), 'System', 'Reboot and Reset', and 'Credentials'. The main area is titled 'Thermal Viewer' and features a thermal image of a circuit board. A white box labeled 'R1' highlights a specific component. Below the image is a temperature scale from 15 to 105 and a label 'DyLS0.00.A0000'. At the bottom of the image area are three buttons: a download icon, a play icon, and a refresh icon. To the right of the image is a settings panel with two tabs: 'Monitoring' and 'Settings' (active). Under the 'Settings' tab, there is a 'Parameters' section with the following values: Distance (m) 0.2, Reflected Temperature 28, Humidity 50%, Emissivity 0.50, and Temperature Range -20°C to 150°C (selected). Below this is a 'Color Palette' section with three options: Grayscale (selected), Rainbow, and Fire. At the bottom is a 'Thermometric Scale' section with two options: °C (selected) and °F.

4.4 LED signaling

Dynamox Lens casing includes a light indicator showing the device status.



LED color and behavior vary depending on the current activity or device state:

All blinking: device initialization	Yellow blinking: initialize Lens Setup mode ¹	Red blinking: restart the Dynamox Lens ² / restore to factory settings ³	Green blinking: active temperature monitoring	White steady: visible light image requested in Lens Setup
	1 - Pressing the button for 10 seconds causes the LED to blink yellow. Upon release, the device initiates a Wi-Fi network and the LED stays yellow.	2 - Pressing the button once causes the LED to blink red. Releasing the button during this interval will restart the sensor. 3 - Press and hold the button for 30 seconds until the LED starts blinking red. Release the button, then press it once to restore the sensor to factory settings. The device will automatically restart.		

5 Configuration on Dynamox Platform

After configuring the device, access Dynamox Platform to create it within a workspace and define operational parameters such as telemetry collection interval and association with DynaGateway.

To do this, go to <https://dyp.dynamox.solutions/> and, from the side menu, access the **Lens** tab. A table listing all devices registered in the current workspace will be displayed.

Dynamox

Structure

Asset Tree

Machines

Spots

Lens

DynaGateways

Overview

Management Indicators

Reports

DynaNeo

Prioritization and Analysis

DMA

Hour Meter

Asset Pro

Administration

Dynamox Lens

TRAININGS

?

🌐

👤

Search for names, places, identifiers, and Spots

+ LENS

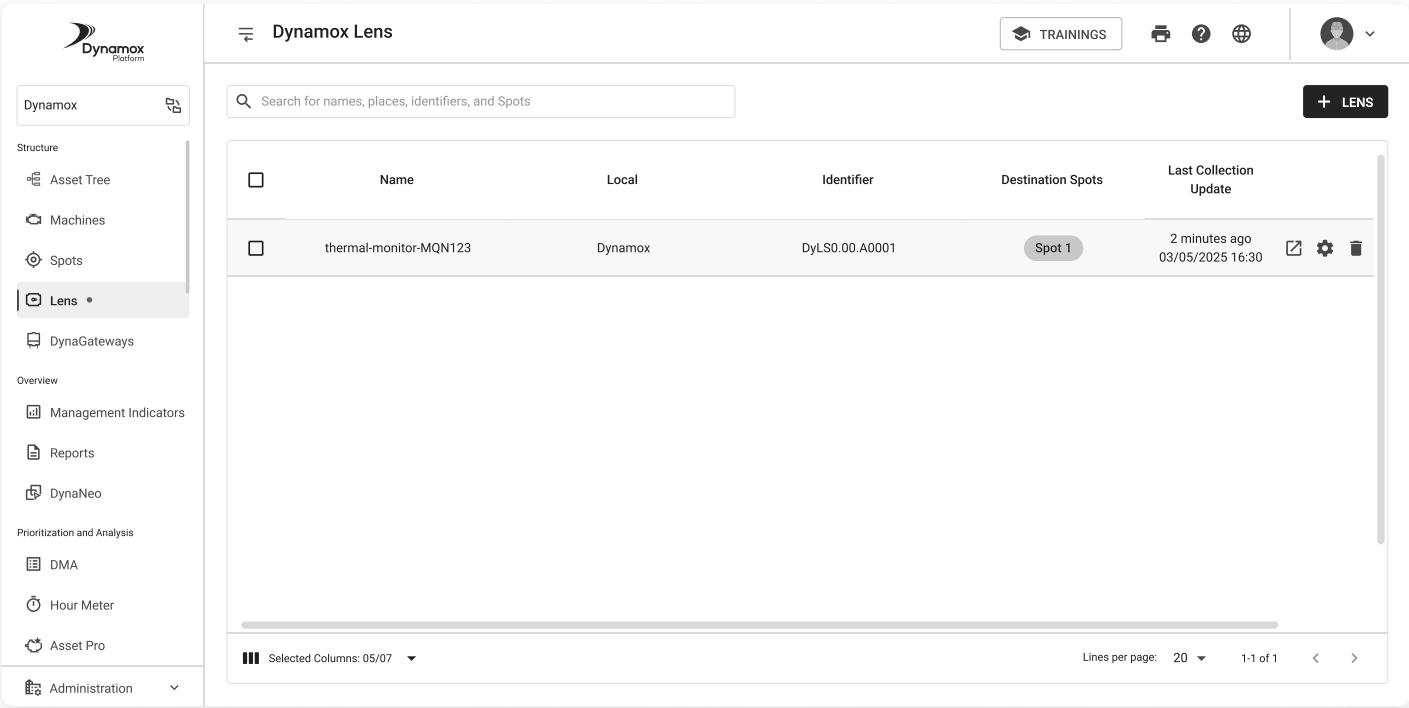
☐	Name	Local	Identifier	Destination Spots	Last Collection Update	
☐	thermal-monitor-MQN123	Dynamox	DyLS0.00.A0001	Spot 1	2 minutes ago 03/05/2025 16:30	

Selected Columns: 05/07

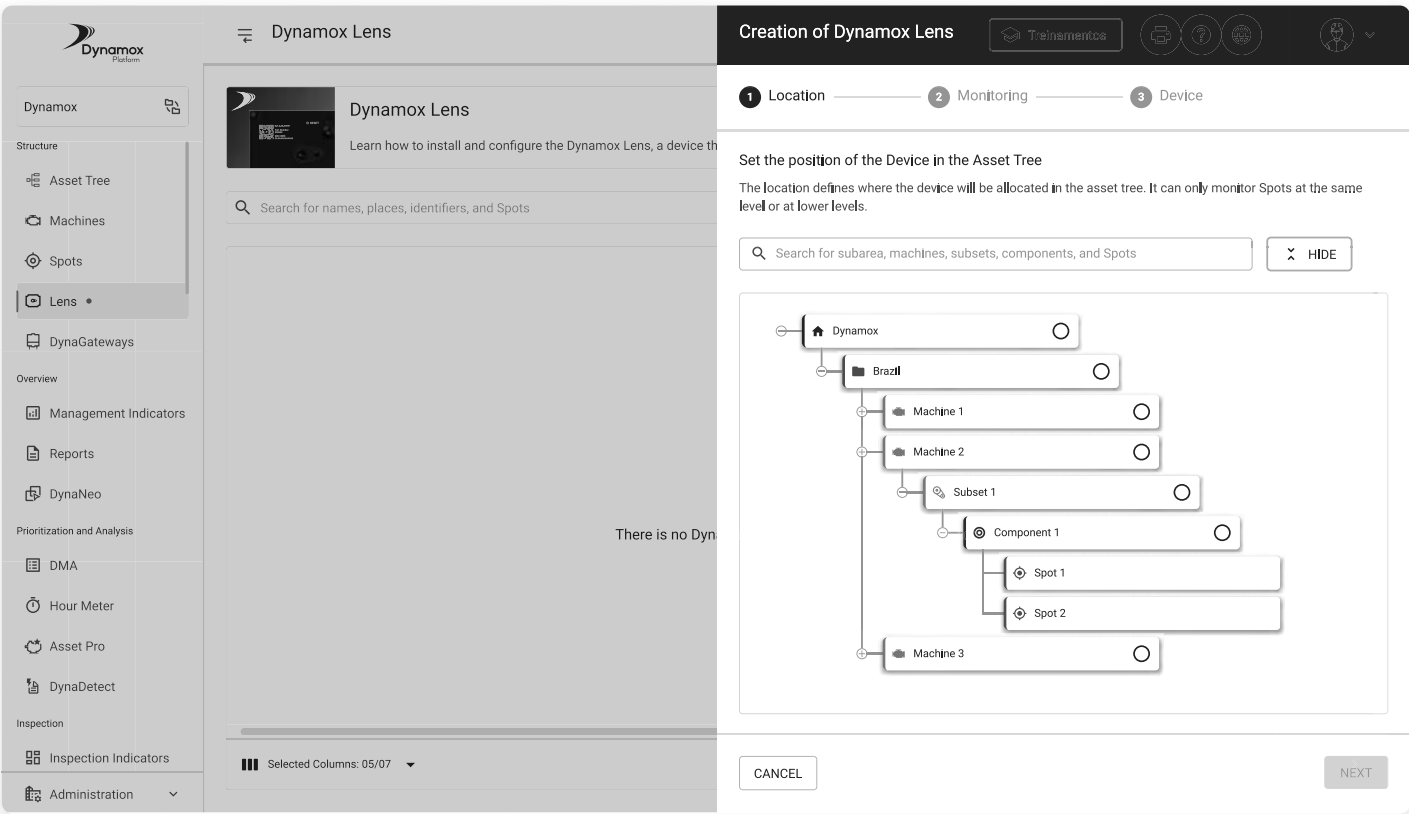
Lines per page: 20 1-1 of 1

5.1 Creating a Dynamox Lens

To add a profile for Dynamox Lens, go to the **Lens** tab and click **+ Lens** in the upper right corner.



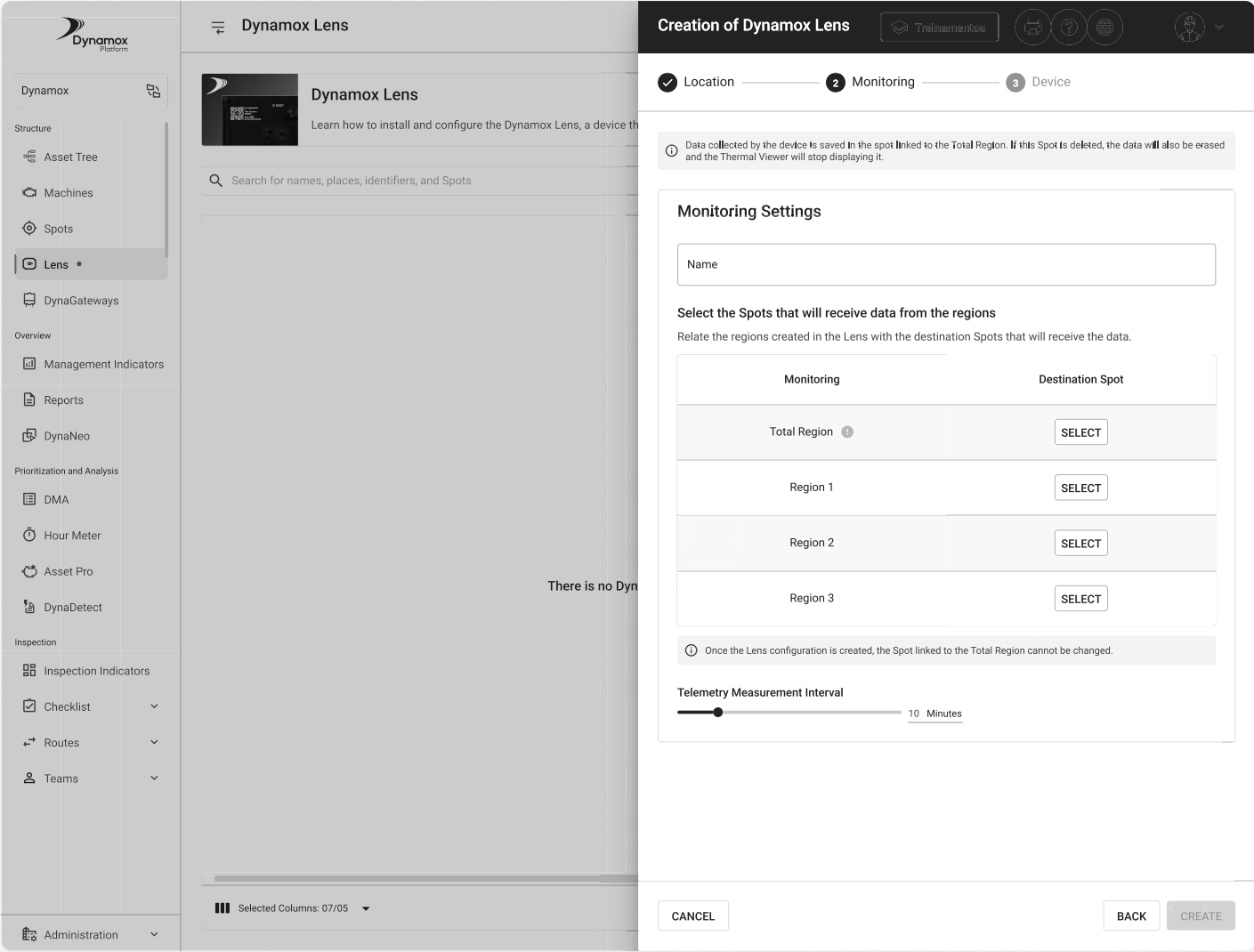
Using the Asset Tree, the user must select the area or subarea where Dynamox Lens will be positioned. This selection will restrict which monitoring points or machines can be monitored, as well as which users will be able to edit the settings.



The selection follows the same structure as the company’s Asset Tree, where higher-level nodes inherit the same benefits for lower levels. By clicking the **Next** option, the Lens Configuration page will be displayed to the user.

In the device settings, the user must enter the device identifier printed on its casing.

 Ensure that the entered number matches the Lens being installed, as mismatches will prevent data collection by the DynaGateway or app.



In the monitoring settings, the user must name the settings being created and define the monitoring points to which the device will be associated. These points are responsible for maintaining the historical data of the monitored asset. To define the monitoring point, click **Select**. This will open a tab to choose the spot within the Asset Tree.

 The Destination Spot for the Total Region is mandatory and, once configured, cannot be changed.

It is mandatory to define at least the monitoring point for the total region. Other regions must be configured only if they were previously created in the device configuration pages (see section 4.3.2.1).

Finally, the user must enter the telemetry collection interval for the maximum temperature(s) of the configured region(s) and click **CREATE** , completing the creation of a Dynamox Lens.

