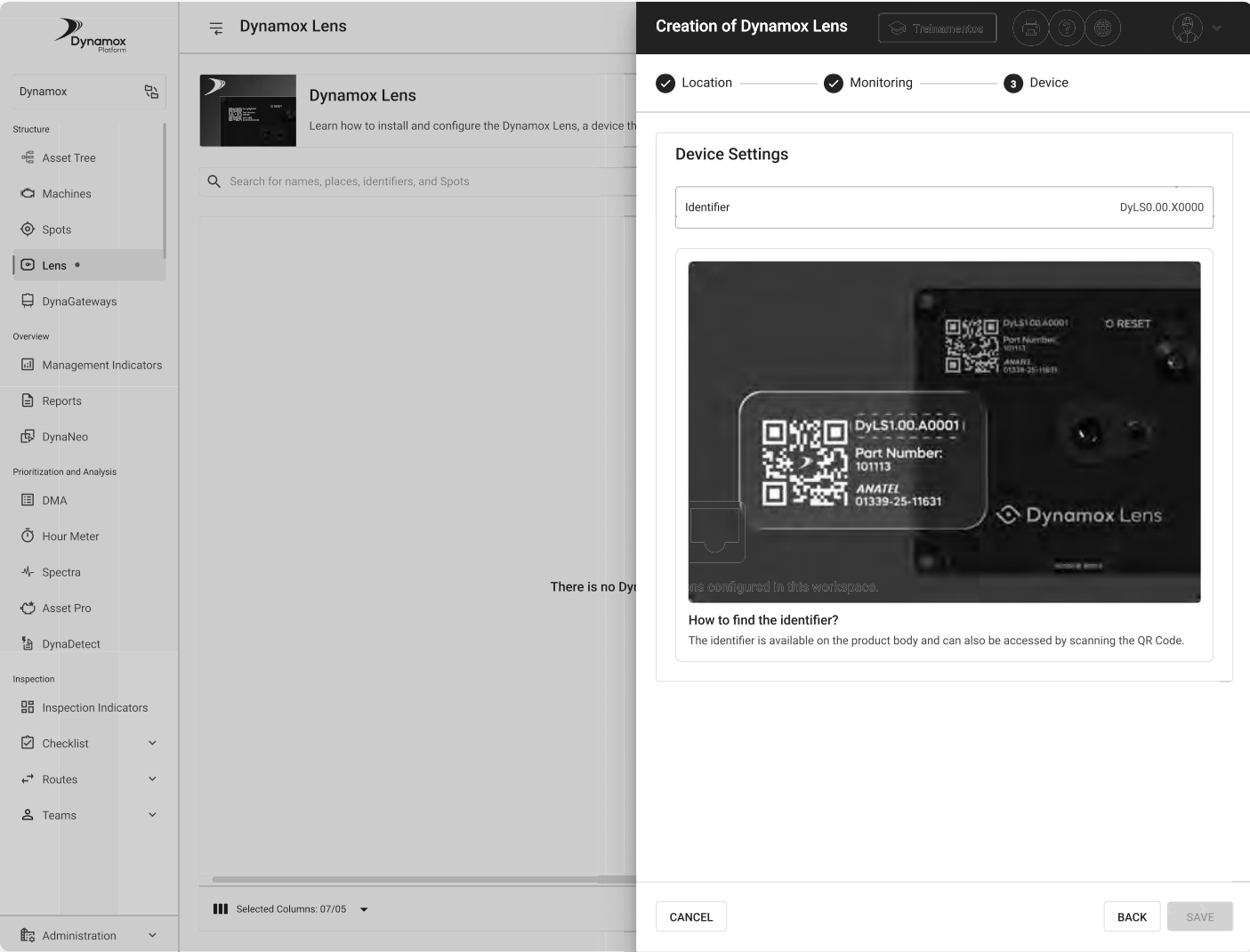


Enter the device identifier number, see section 2.1.



5.2 Associating Dynamox Lens with DynaGateway

After configuring Dynamox Lens, it must be associated with a DynaGateway LTE or DynaGateway IoT, ensuring image and telemetry collection. To do this, access the platform at <https://dyp.dynamox.solutions> and, from the side menu, go to **DynaGateways** tab. A table listing all DynaGateways registered in the current workspace will be displayed.

ⓘ The DynaGateway assigned to collect data from Dynamox Lens can also collect data from DynaLoggers.

Dynamox

Structure

Asset Tree

Machines

Spots

DynaGateways

Overview

Management Indicators

Reports

DynaNeo

Prioritization and Analysis

DMA

Hour Meter

Spectra

Asset Pro

DynaDetect

Inspection

Inspection Indicators

Administration

DynaGateways

TRAININGS

?

⌕

⌵

Search for machines, gateways, versions, and identifiers

+ DYNAGATEWAY

Connectivity	Memory Collections	Status of Associated Spots	DynaGateway	Identifier	Version	Associated Spots	Visible Spots	Visibility of Associated Spots	
			DGTW012345	DyG0.00.A0001	06.02.00_06.02.00	10	24	90%	0
			DGTW678901	DyG0.00.A0002	06.02.00_06.02.00	88	118	67%	0
			DGTW234567	DyG0.00.A0003	06.02.00_06.02.00	21	21	95%	0
			DGTW890123	DyG0.00.A0004	06.02.00_06.02.00	35	112	91%	0
			DGTW012345	DyG0.00.A0005	06.02.00_06.02.00	23	24	52%	0
			DGTW678901	DyG0.00.A0006	06.02.00_06.02.00	2	8	100%	0
			DGTW234567	DyG0.00.A0007	06.02.00_06.02.00	45	41	89%	0
			DGTW890123	DyG0.00.A0008	06.02.00_06.02.00	32	96	92%	0
			DGTW012345	DyG0.00.A0009	06.02.00_06.02.00	28	501	93%	0

Selected Columns: 13/14

Lines per page: 20

1-20 de 100

< >

When selecting a DynaGateway (LTE/IoT) from the list, general information about the selected device will be displayed, along with the status of devices within its range and those associated with it. Visible devices include all sensors within the gateway’s range, even if not yet associated. This concept helps optimize the use of DynaGateway, ensuring it is configured to collect data only from devices truly within its reach.

By selecting the **+ Device** option, sensors to be collected by DynaGateway can be associated. The list will include both DynaLoggers and Dynamox Lens devices.

DynaGateways

TRAININGS

Location in Asset Tree

Dynamox > ... > Florianópolis > Gateway 12...

Online

DGTW012345

DyG0.00.A0001

04.01.00_04.01.01

Collection Schedule

Trigger

Learn More >

Schedule Device Status

Total

100

Successfully Collected

Collection Delay

Connection Issue

Not Sensorized

Unknown Status

Schedule Device Visibility

Total

100

Visible Devices

Non-visible Devices

Search for machines, subsets, components, spots, and identifiers

0 FILTERS

EXPAND

+ DEVICE

	Status	Signal	Identifier	Model	Collection Settings	Machine	Telemetry Frequency	Spectral / Image Start Time	Frequency	Last Update		
^	☐	☒		DyL0.01.A1242	HF+		MAQ14524	Every 3 hours	08:55	Spectral every one day	5 minutes ago 03/05/2025 16:27	
^	☐	☒		DyLS0.01.A1243	Lens		MAQ12454 +3	Every 3 hours	09:15	Image every one day	5 minutes ago 03/05/2025 16:27	
^	☐	☒		DyL0.01.A1298	HF+	—	MAQ12987	Every 3 hours	08:55	Spectral every one day	5 minutes ago 03/05/2025 16:27	
^	☐	☒		DyLS0.01.A1272	Lens	—	MAQ1456 +3	Every 3 hours	09:15	Image every one day	5 minutes ago 03/05/2025 16:27	
^	☐	☒		DyL0.01.A1851	HF+	—	MAQ544	Every 3 hours	08:55	Spectral every one day	5 minutes ago 03/05/2025 16:27	
^	☐	☒		DyLS0.01.A1262	Lens	—	MAQ9834 +3	Every 3 hours	09:15	Image every one day	5 minutes ago 03/05/2025 16:27	

Selected Columns: 19/19

Rows per page: 10 1-10 of 100

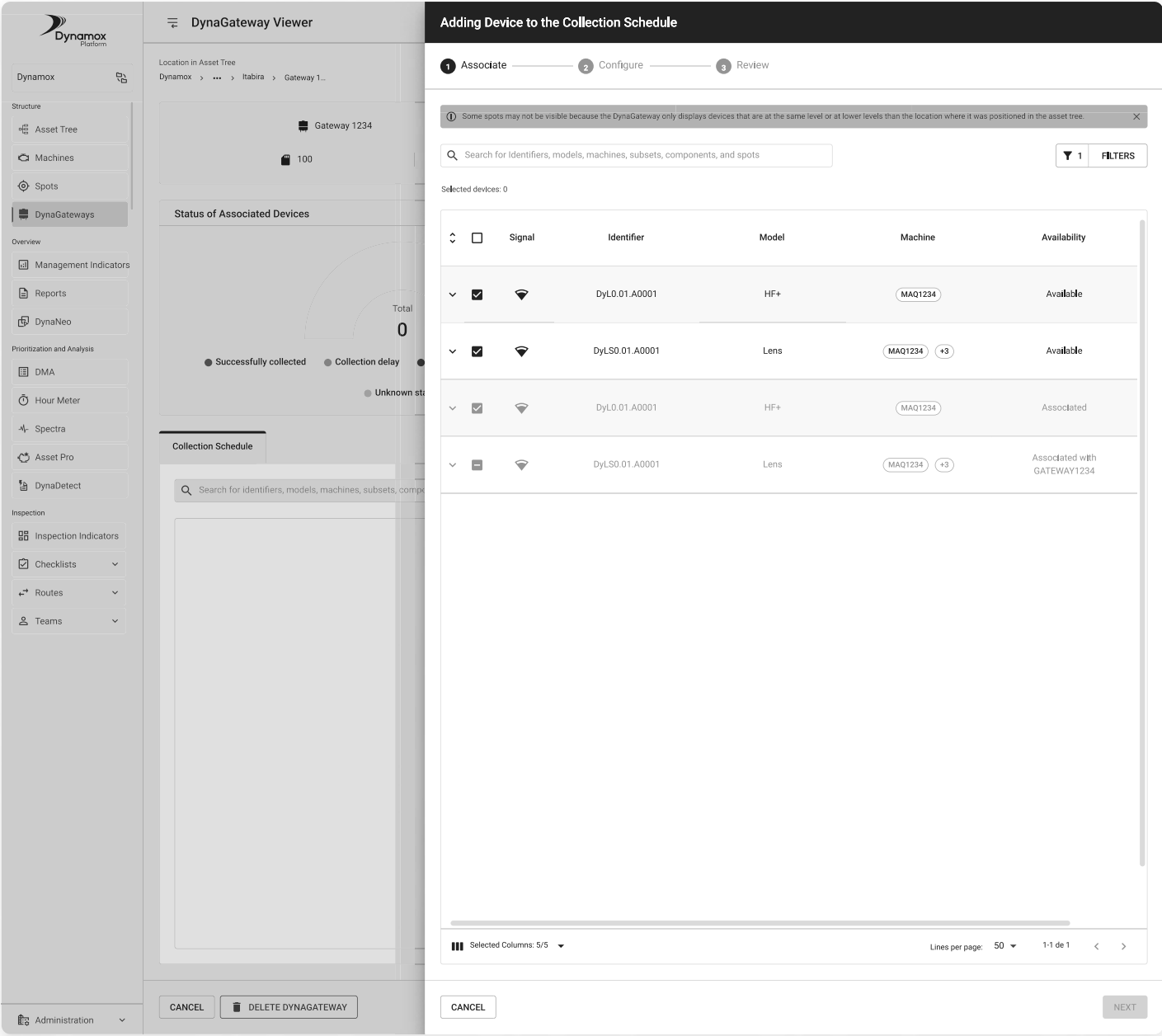
CANCEL

DELETE DYNAGATEWAY

SAVE DYNAGATEWAY

To add a Dynamox Lens, simply check the box to its left. If the device is already associated with another DynaGateway, the checkbox will appear grayed out. Next to the checkbox, the signal strength of each visible device is displayed, which can assist in positioning decisions.

Once the process is complete, click **Next** to proceed to the data collection schedule configuration screen on DynaGateway. It is important to correctly configure the collection intervals for each sensor to avoid overloading the device.



The data collection schedule configuration screen defines how often DynaGateway communicates with sensors and sends data to the platform. This screen includes two monitoring options:

- **Telemetry:** defines the times when DynaGateway will communicate with sensors to request stored data.
- **Image collection:** defines the times when DynaGateway will communicate with Dynamox Lens to request image capture.

For each monitoring type, the user must define the interval between sensor collections and the frequency with which the DynaGateway repeats the schedule. Only for image collection is it necessary to specify the start time.

It is important to distinguish between collection interval and sampling interval. The collection interval refers to the DynaGateway, while the sampling interval is configured during the creation of the Dynamox Lens. The sensor performs measurements according to its sampling interval and stores them in internal memory until DynaGateway collects the data based on the collection interval, transferring it to the platform and clearing the sensor's memory.

After completing the configuration, click **Next** to review the changes.

DynaGateway Viewer

Location in the Asset Tree
Dynamox > ... > Itabira > Gateway 1...

Gateway 1234
100

Status of Associated Devices

● Successfully collected ● Collection delay ● Unknown status

Collection Schedule

Search for identifiers, models, machines, subsets, components...

Adding Device to Collection Schedule

1 Associate 2 **Configure** 3 Review

Telemetry

Interval Between Devices
10 minutes

Schedule Repetition
3

Time Unit
hour

Telemetry collection configured with a 30-minute interval between devices and a list repetition every 3 hours, applied to DynaLoggers and Dynamox Lens.

DynaLogger (Spectral Collection)

Start Time
00:00

Interval Between Devices
30 minutes

Schedule Repetition
1

Time Unit
day

Spectral collection set to start at 00:00, with a 30-minute interval between devices and a list repetition every 1 day, applied only to DynaLoggers.

Dynamox Lens (Thermogram Collection)

Start Time
00:00

Interval Between Devices
1 hour

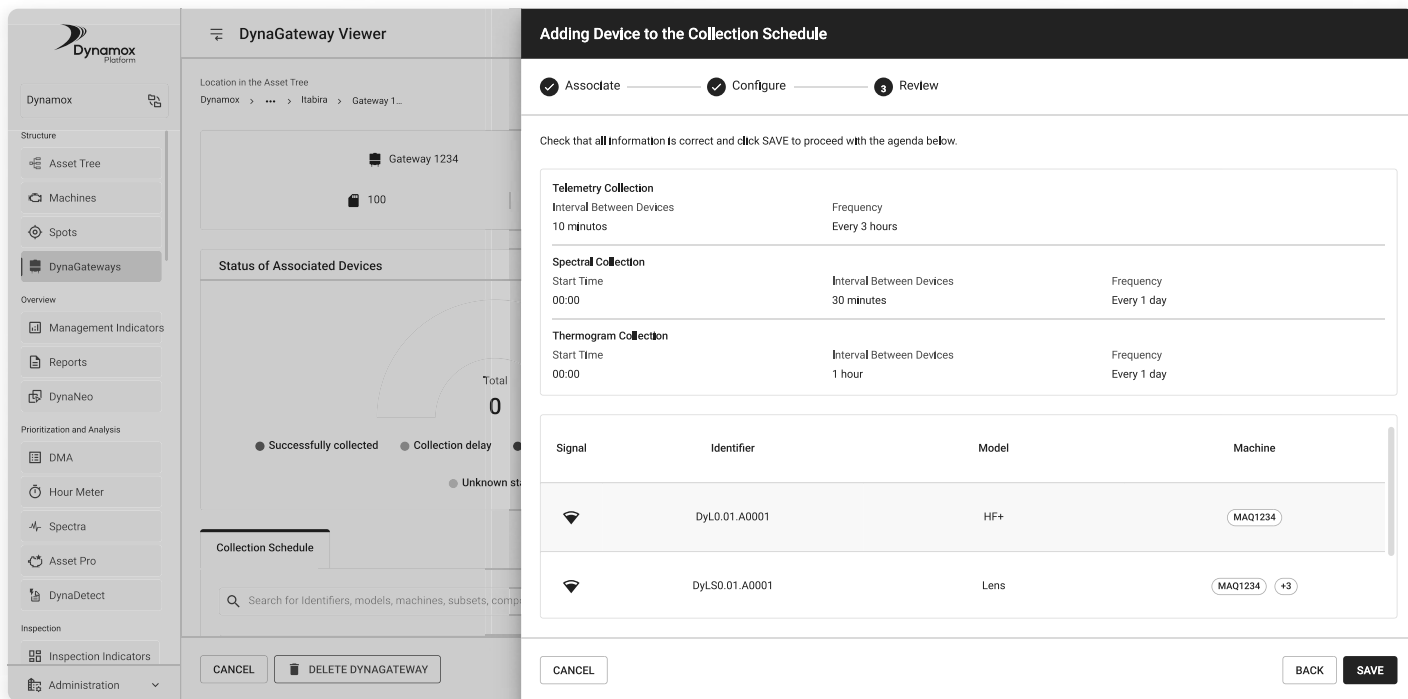
Schedule Repetition
1

Time Unit
day

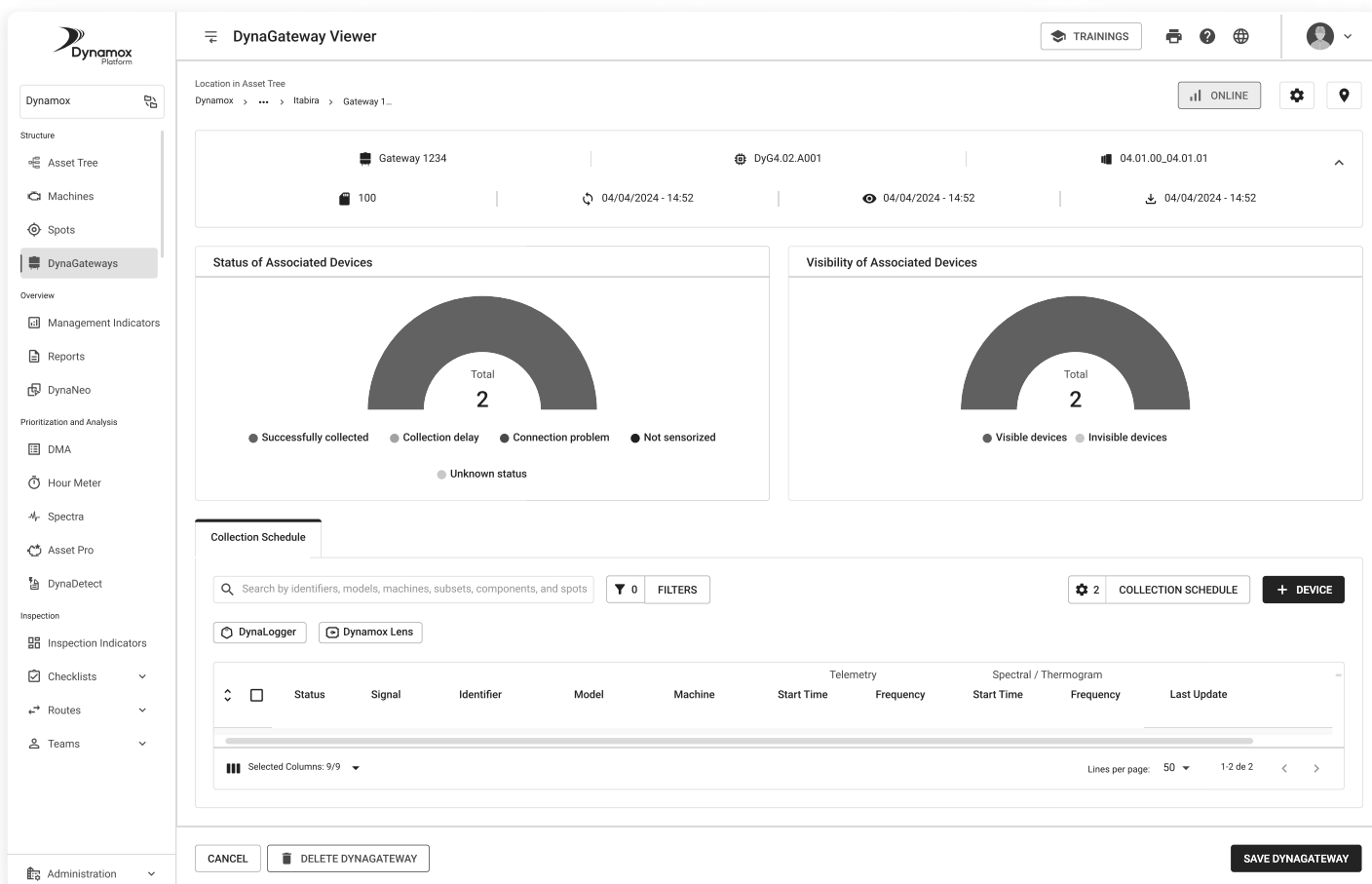
Thermogram collection set to start at 00:00, with an interval of 1 hour between devices and the list repeating every 1 day, applied only to Dynamox Lens.

CANCEL DELETE DYNAGATEWAY CANCEL BACK NEXT

Finally, to save the Gateway settings, click **Save**. Dynamox Lens will now be collected by DynaGateway at the defined times and will appear in its collection schedule.



For more information on how to configure a DynaGateway on Dynamox Platform, consult our [Support Site](#)[↗].



6 Thermographic anlysis

After configuring Dynamox Lens and associating it with a DynaGateway, data can be analyzed via Dynamox Platform. To do this, access <https://dyp.dynamox.solutions/> and go to the **Lens** tab in the side menu. A table listing all devices registered in the current workspace will be displayed.

Dynamox

Platform

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