



Safe Spaces on the Senstar Edge Platform

1.0.x

User Guide

Contents

| | |
|------------------------------------------|----|
| Safe Spaces..... | 3 |
| Configure the Senstar Edge Platform..... | 3 |
| Reset the password..... | 3 |
| Reboot the Senstar Edge Platform..... | 3 |
| Log in to the Web interface..... | 3 |
| Cameras..... | 5 |
| Add cameras..... | 5 |
| Edit a camera..... | 6 |
| Choose analytics..... | 6 |
| Configure Face Mask Detection..... | 6 |
| Configure Social Distancing..... | 6 |
| Configure People Counting..... | 7 |
| Configure Hand Sanitizing..... | 7 |
| Views..... | 8 |
| Add a view..... | 8 |
| Display a view..... | 9 |
| Rules..... | 10 |
| Configure rules..... | 10 |
| Display a rule..... | 10 |
| Alarms..... | 12 |
| View an alarm..... | 12 |
| Settings..... | 13 |
| Add an email address..... | 13 |
| Add an audio device..... | 14 |
| Enable RTSP streaming..... | 14 |
| Delete data..... | 14 |
| Set disk space limit..... | 14 |
| Update using a USB drive..... | 15 |
| Update online..... | 15 |
| Set log level..... | 15 |
| Download logs..... | 15 |
| Legal information..... | 16 |
| Third-party attributions..... | 16 |

Safe Spaces

The Safe Spaces on the Senstar Edge Platform provides the Face Mask Detection, Social Distancing, People Counting, and Hand Sanitizing video analytics.

To view the Safe Spaces Overview course, visit <https://xnet.senstar.com/webhelp/Learning/SafeSpacesPlatform/launcher.html>.

To close Safe Spaces on the Senstar Edge Platform, press Shift + q on a keyboard attached to the Senstar Edge Platform.

Configure the Senstar Edge Platform

You can use the setup wizard to configure the Senstar Edge Platform.

When you start the Senstar Edge Platform, the Senstar Edge Platform Web interface displays the setup wizard automatically. In addition, you can access the setup wizard from the Settings menu.

1. Connect a network cable to the Senstar Edge Platform.
2. Plug in the Senstar Edge Platform.
3. On a computer that is connected to the same network as the Senstar Edge Platform, open a browser and navigate to IP address of the Senstar Edge Platform.
The browser opens the Senstar Edge Platform Web interface.
4. On the **LICENSE** page of the setup wizard, read the license, select **I accept the license agreement**, and click **NEXT**.
5. On the **TIMEZONE** page of the setup wizard, select your timezone and click **NEXT**.
6. On the **USER** page of the setup wizard, type a username and type and confirm a password.
7. On the **NETWORK** page of the setup wizard, perform one of the following tasks:
 - To automatically configure the IP address and other network configuration parameters, select **Use DHCP**.
 - To manually configure the IP address and other network configuration parameters, select **Manually configure IP**, type the IP address, subnet mask, default gateway, and DNS server information.
8. Click **FINISH**.

Reset the password

You can reset the password for the Senstar Edge Platform device using a keyboard attached to the device.

1. Plug a keyboard into the Senstar Edge Platform device.
2. Press and hold Ctrl + F12 for five seconds.

The Senstar Edge Platform device deletes configuration settings, restarts, and then starts the setup wizard.

Reboot the Senstar Edge Platform

You can reboot the Senstar Edge Platform device from the Web interface.

1. In the Safe Spaces Web interface, click **SETTINGS > Platform Settings**.
2. In the **Reboot** section, click the **REBOOT** button.
3. Click the **YES** button.

Log in to the Web interface

You can use a browser to access Safe Spaces through a Web interface.

When Safe Spaces starts on the Senstar Edge Platform, the splash screen displays the IP address of the Senstar Edge Platform.

1. On a computer connected to the same network as the Senstar Edge Platform, open a browser.
2. Type the IP address of the Senstar Edge Platform into the address bar.

The Safe Spaces Web interface opens in the browser.

Cameras

The Senstar Edge Platform can be connected to cameras that are on the same network as the Senstar Edge Platform.

You can add a maximum of six cameras to the Senstar Edge Platform. The cameras must be on the same network as the Senstar Edge Platform.

Camera settings

For the best video analytic performance, configure cameras so that people are 50 to 400 pixels tall at 1920 x 1080 resolution.

Face Mask Detection camera placement

For the best video analytic performance, follow these guidelines when mounting the camera:

- Place the camera at approximately eye level.
- Align the camera parallel to the ground.
- Align the camera so that it is pointing directly at faces.
- Make sure that the camera has an unobstructed view of faces.

People Counting camera placement

For the best video analytic performance, follow these guidelines when mounting the camera:

- Place the camera so that it has a view of the entire person. Do not place the camera directly overhead, but place at an angle that allows the camera a view of the entire person.
- Make sure that the camera has an unobstructed view of the person. Do not place the camera where objects (for examples, shelves or desks) obstruct part of the person.

Social Distancing camera placement

For the best video analytic performance, follow these guidelines when mounting the camera:

- Place the camera between 30 degrees and 60 degrees above the scene.
- Make sure that the camera has an unobstructed view of the people. Do not place the camera where objects (for examples, shelves or desks) obstruct part of the people.

Add cameras

You can add a camera in the Safe Spaces Web interface.

Before you add a camera to the Safe Spaces:

- Enable ONVIF on the camera.
 - For Axis cameras, turn off Replay Attack Protection in the camera Web interface (**Settings > System > Plain config > WebService**).
 - Make sure that the time settings on the camera match the time settings on the Senstar Edge Platform.
1. In the Safe Spaces Web interface, click **CAMERAS**.
 2. Click the **Add** button (+).
 3. Type the IP address, port, username, and password for the camera, and click **Connect**.
 4. In the **Camera Name** field, type a name for the camera.
 5. In the **Resolution** field, select the resolution that the camera uses.
 6. In the **FPS** field, select the frames per second that the camera uses.

- Click **Save**.

Edit a camera

You can modify the configuration of a camera in the Safe Spaces Web interface.

- In the Safe Spaces Web interface, click **Cameras**.
- Beside the camera for which you want to modify the configuration, click **Edit**.

Choose analytics

You can add an analytic to a camera on the **Edit Camera** page in the Safe Spaces Web interface.

If you add Face Mask Detection to a camera, you cannot add other video analytics to the camera.

- In the Safe Spaces Web interface, click **Cameras**.
- Beside the camera to which you want to add the video analytic, click the **Edit** button.
- In the **Analytics** list, turn on the video analytic that you want the camera to use.

| STATE | NAME | DESCRIPTION | ACTIONS |
|--------------------------|-------------------|-------------------------------------|---------|
| <input type="checkbox"/> | Face Mask | Detects people wear masks | |
| <input type="checkbox"/> | Social Distancing | Detects social distancing violation | |
| <input type="checkbox"/> | People Counting | Counts people INs and OUTs | |
| <input type="checkbox"/> | Hand Sanitizing | Detects people sanitize hands | |
| <input type="checkbox"/> | Crowd Detection | Counts people in a crowd | |

- Click **Save**.

After you turn on a video analytic for a camera, you must configure that video analytic to optimize its performance.

Configure Face Mask Detection

You can configure Face Mask Detection on the **Edit Analytic - Face Mask** page in the Senstar Edge Platform Web interface.

- In the Safe Spaces Web interface, click **Cameras**.
- Beside the camera for which you want to configure Face Mask Detection, click **Edit**.
- Turn Face Mask Detection on.
- Click **Configure**.
- On the camera image, draw the minimum size of a face.
- Click **Save**.

After you configure Face Mask Detection, you can configure a rule for Face Mask Detection.

Configure Social Distancing

You can configure Social Distancing on the **Edit Camera** page in the Senstar Edge Platform Web interface.

- In the Safe Spaces Web interface, click **Cameras**.
- Beside the camera for which you want to configure Social Distancing, click **Edit**.
- Turn Social Distancing on.
- Click **Configure**.

5. On the slider, adjust the square to match your environment and set the unit of measurement. Safe Spaces uses this square to calculate the field of view and the plane.
6. Click **Save**.

After you configure Social Distancing, you can configure a rule for Social Distancing.

Configure People Counting

You can configure People Counting on the **Edit Camera** page in the Senstar Edge Platform Web interface.

People Counting counts people traveling across counting lines in the same direction as the arrow on the counting line as IN and people traveling opposite to the arrow as OUT.

1. In the Safe Spaces Web interface, click **Cameras**.
2. Beside the camera for which you want to configure People Counting, click **Edit**.
3. Turn People Counting on.
4. Click **Configure**.
5. On the camera image, draw the counting lines with the arrow marking the IN direction.
To draw a line, left-click to start the line and left-click again to create a vertex and start another line. To end the line without another line, click the vertex again. You can draw multiple lines, connected or separate, to act as counting lines.
6. Click **Save**.

After you configure People Counting, you can configure a rule for People Counting.

Configure Hand Sanitizing

You can configure Hand Sanitizing on the **Add Rule** and **Edit Rule** pages in the Senstar Edge Platform Web interface.

When you first create a rule, you configure Hand Sanitizing on the **Add Rule** page. For changes to an existing rule, you configure Hand Sanitizing on the **Edit Rule**.

1. In the Safe Spaces Web interface, click **Cameras**.
2. Beside the camera for which you want to configure Hand Sanitizing, click **Edit**.
3. Turn Hand Sanitizing on.
4. Click **Save**.
5. Click **Rules**.
6. Create a new rule or edit an existing rule.
7. On the camera image, draw the area in which you want Hand Sanitizing to detect people pausing to sanitize their hands.
8. On the **Less than number of seconds sanitizing hands to raise alarm** slider, select the number of seconds that people must pause.
If people do not pause for the required time, Safe Spaces raises an alarm.
9. In the **Actions** section, select additional actions for Safe Spaces to take when it raises an alarm.
10. Click **Save**.

Views

The Senstar Edge Platform can display video from connected cameras on a monitor attached to the Senstar Edge Platform.

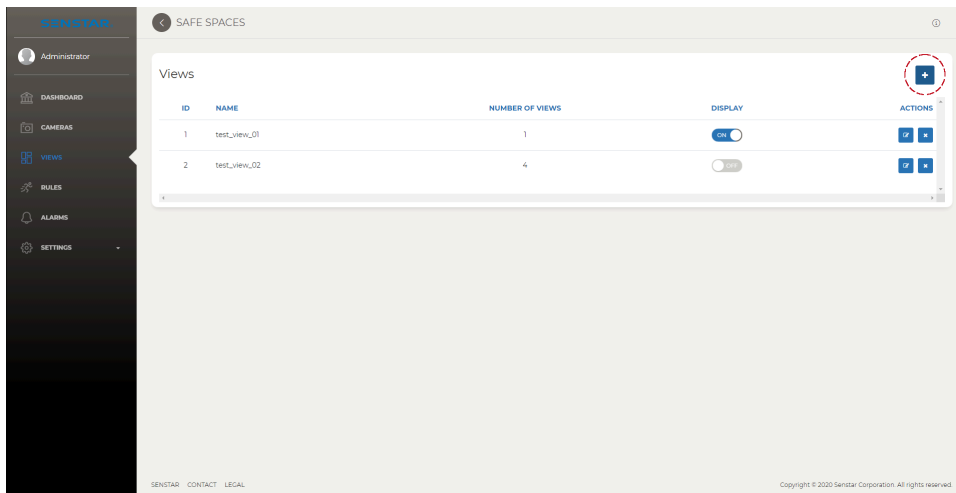
For the best performance of views, the resolution of the attached monitor should be 1920 x 1080 or better.

A view can include one, four, or six cameras, and it displays the video analytics running on the cameras.

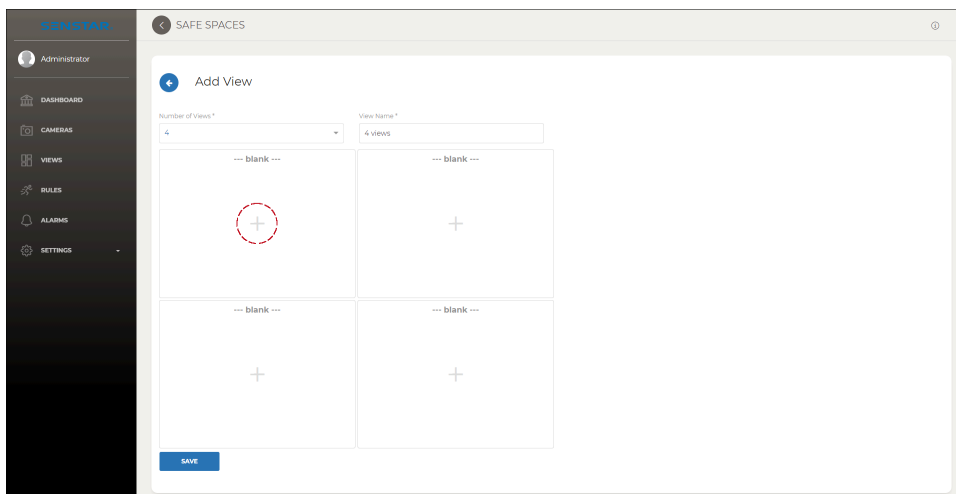
Add a view

You can add a view in the Safe Spaces Web interface.

1. In the Safe Spaces Web interface, click **Views**.
2. Click **Add**.



3. In the **Number of Views** list, select the number of cameras that you want to include in the view.
4. In the **View Name** field, type a meaningful name for the view.
The view name will appear in the list on the **View** page and you will use it to select the view that appears.
5. In the camera panel, click **Add**.



The number of camera panels will be the same as the number that you select in the **Number of Views** list in step 3.

6. In the camera list, select the camera that you want to add to the view.
Repeat this step for each camera that you want to add to the view.
7. Click **Save**.

Display a view

Display a view to make it appear on the monitor attached to the Senstar Edge Platform.

The Senstar Edge Platform only supports one view at a time. The Senstar Edge Platform closes the active view if you select another view to display.

1. In the Safe Spaces Web interface, click **Views**.
2. Click the toggle switch beside the video analytic to it on.

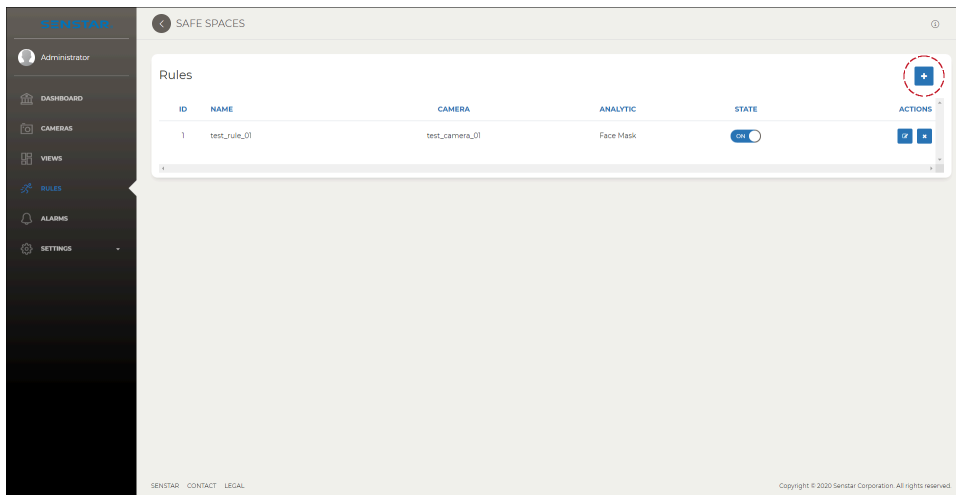
Rules

The Senstar Edge Platform can perform actions and generate alarms when the conditions of a rule are met.

You can add only one rule per camera for the Face Mask Detection, People Counting, and Social Distancing video analytics.

Configure rules

1. In the Safe Spaces Web interface, click **Rules**.
2. Click **Add**.



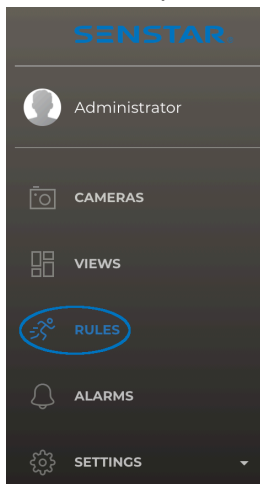
3. In the **Rule Name** field, type a name for the rule.
4. In the **Camera** list, select the camera to which you want the rule to apply. The **Analytic** field displays the video analytic that the camera uses.
5. In the **Triggers** area, configure the conditions that must exist for the rule to activate.
6. In the **Actions** area, select what happens when a rule activates. You can send an email message or play an audible alarm.
7. Click **Save**.

After you add a rule, the rule is active.

Display a rule

You can display digital signage on a Web page for the rules in Safe Spaces.

1. In the Safe Spaces Web interface, click **Rules**.



2. Beside the rule that you want to display, click **Display**.

Alarms

The Senstar Edge Platform generates alarms when a rule is triggered by a video analytic.

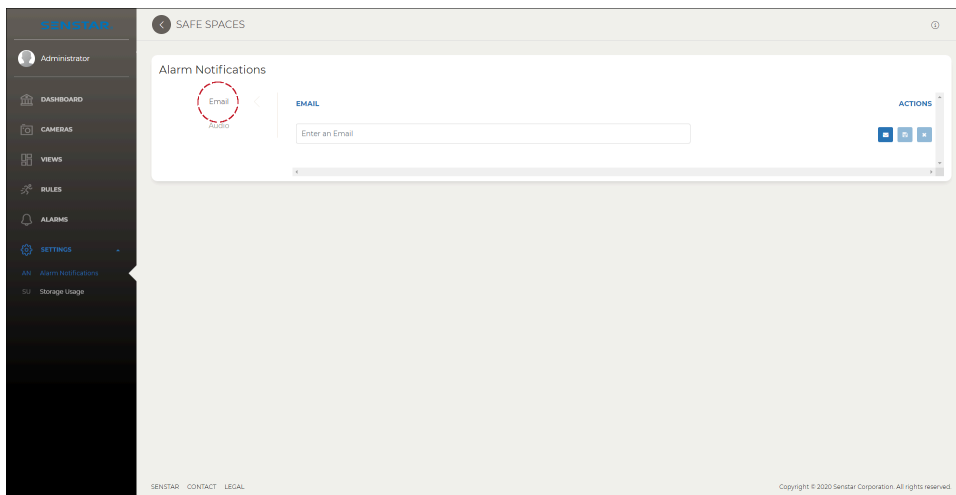
View an alarm

1. In the Safe Spaces Web interface, click **ALARMS**.
2. Select **UNACKNOWLEDGED**, **ALL**, or **ACKNOWLEDGED** to filter the list.
3. Click the thumbnail image of the alarm to view a larger image.
4. To acknowledge an alarm, select the **ACKNOWLEDGE** box.

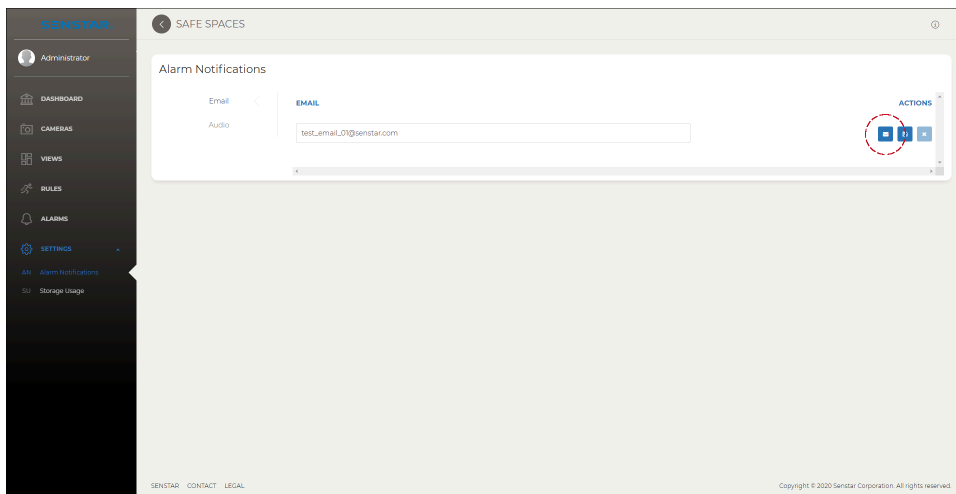
Settings

Add an email address

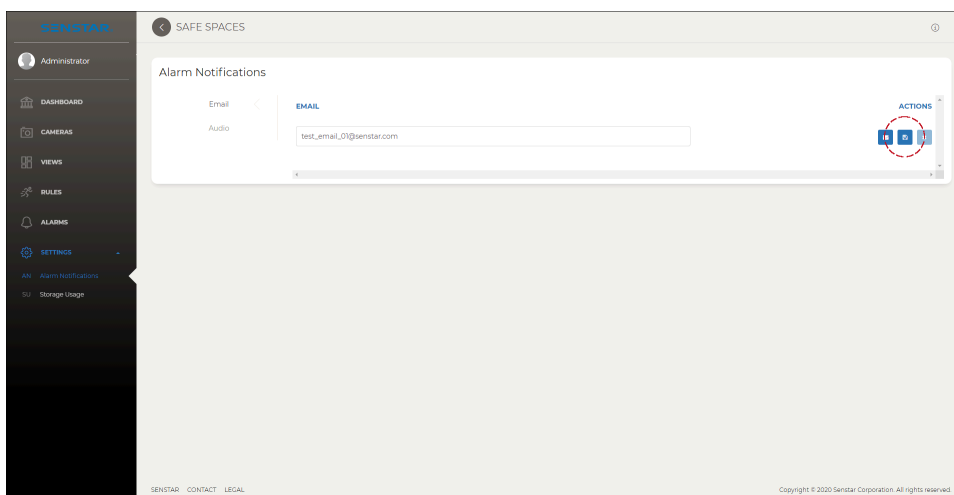
1. In the Safe Spaces Web interface, click **Settings > Alarm Notifications**.
2. Click **Email**.



3. In the email field, type an email address.
4. To test the email, click the **Test** button beside the email address.



5. Click **Save**.



Add an audio device

1. In the Safe Spaces Web interface, click **SETTINGS > Alarm Notifications**.
2. Click **Audio**.
3. In the **NAME** field, type a name for the audio device.
4. In the **USERNAME** field, type the username that you want the Senstar Edge Platform to use to access the audio device.
5. In the **PASSWORD** field, type the password that you want the Senstar Edge Platform to use to access the audio device.
6. In the **AUDIO PATH** field, type the URL for the audio device.
7. To test the audio device, click the **Test** button.
8. Click **Save**.

Enable RTSP streaming

The Senstar Edge Platform

1. In the Safe Spaces Web interface, click **Settings > Platform Settings**.
2. Click the **RTSP Out video streaming** toggle switch.

To turn off RTSP streaming, click the toggle switch again.

Delete data

1. In the Safe Spaces Web interface, click **SETTINGS > Platform Capacity**.
2. In the **Delete data** field, type the number of days ago before which you want to delete the data. For example, if you type 12, the Safe Spaces deletes data that is 12 days old or older.
3. Click the **DELETE** button.
4. Click the **Yes** button.

Set disk space limit

1. In the Safe Spaces Web interface, click **SETTINGS > Platform Capacity**.
2. On the **Disk Space** slider, set the percentage of free disk space that the Senstar Edge Platform maintains automatically.
3. Click **SAVE**.

Update using a USB drive

You can apply updates from a USB drive.

Before you begin, download the updated software and place it on a USB drive.

1. Plug the USB drive in the Senstar Edge Platform.
2. In the Safe Spaces Web interface, click **SETTINGS > Platform Update**.
3. Click **USB UPDATE**.
4. Click **YES**.

Update online

You can download and apply updates from the Internet.

Before you begin, connect the Senstar Edge Platform to a network that is connected to the Internet.

1. In the Safe Spaces Web interface, click **SETTINGS > Platform Update**.
2. Click **ONLINE UPDATE**.
3. Click **YES**.

Set log level

You can set the level of detail that the Senstar Edge Platform includes in the logs.



CAUTION: When you change the log level, the Senstar Edge Platform restarts.

1. In the Safe Spaces Web interface, click **Settings > Platform Settings**.
2. Move the **Log Level** slider to the level you want.
3. Click **Yes**.

Download logs

1. In the Safe Spaces Web interface, click **Settings > Platform Settings**.
2. Click **DOWNLOAD LOGS**.

Your computer downloads a **ZIP** archive to the download location.

Legal information

Copyright © 2021 Senstar Corporation and/or its Licensor(s). All rights reserved.

This material is for informational purposes only. Senstar makes no warranties, express, implied or statutory, as to the information in this document.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Senstar Corporation

Senstar may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Senstar, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

Senstar and the Senstar logo are registered trademarks of Senstar Corporation.

All other trademarks are the property of their respective owners.

Third-party attributions

| Component | Attribution |
|---------------------------|-----------------------------------------------------------------------------------|
| Docker | Docker is licensed under the Apache 2.0 license . |
| MongoDB | The MongoDB is licensed under the Server Side Public License . |
| NVIDIA DeepStream 5.0 SDK | The NVIDIA DeepStream SDK is licensed under the DeepStream EULA . |