



Software manual  
Vision Assistant Monitoring Tool

**GB**

**E3D310**  
**E3D311**

Version 2.6.20

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# 1 Preliminary note

You will find instructions, technical data, approvals and further information using the QR code on the unit / packaging or at [documentation.ifm.com](https://documentation.ifm.com).

## 1.1 Symbols used

- ✓ Requirement
- Instructions
- ▷ Reaction, result
- [...] Designation of keys, buttons or indications
- Cross-reference
-  Important note  
Non-compliance may result in malfunction or interference.
-  Information  
Supplementary note

## 1.2 Legal and copyright information

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## 1.3 Open source information

-  For more open source information see: [documentation.ifm.com](https://documentation.ifm.com).

## **2 Safety instructions**

Please read the operating instructions prior to set-up of the device. The device must be suitable for the application without any restrictions.

If the operating instructions or the technical data are not adhered to, personal injury and damage to property can occur.

### **3 Intended use**

The software manual describes the function of the Monitoring Tool:

- detecting several devices in the local network,
- monitoring applications on multiple devices simultaneously.

The Monitoring Tool is part of the ifm Vision Assistant software.

## 4 Disclaimer of warranties

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- the software will meet your requirements or expectations,
- the software or the software content will be free of bugs, errors, viruses or other defects,
- any results, output, or data provided through or generated by the software will be accurate, up-to-date, complete or reliable,
- the software will be compatible with third party software,
- any errors in the software will be corrected.

### Demo software and templates

Demo software and templates are provided “as is” (that is: excluding warranty) and “as available”, without any warranty of any kind, either express or implied. The user acknowledges and agrees to use the software at user’s own risk. In no event shall ifm be held liable for any direct, indirect, incidental or consequential damages arising out of the use of or incorrect use the software. The user may use the software solely for demonstration purposes and to assess the software functionalities and capabilities.

### Customer-specific software

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2. Upon complete payment of the purchase price for the customer-specific application program, ifm transfers the non-exclusive, locally and temporarily unrestricted usage right thereof to the customer, without the customer acquiring any rights of any kind to the standard software module on which the individual or customer-specific adaptation is based. Notwithstanding these provisions, ifm reserves the right to produce and offer customer-specific software solutions of the same kind for other customers based on other terms of reference. In any case ifm retains a simple right of usage of the customer-specific solution for internal purposes.
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## 5 Installation

### 5.1 System requirements

#### Software

The following software is required for operation.

- Operating system: Windows 10 (32/64-bit)
- ifm Vision Assistant software 2.6.20 or higher



#### Other versions

- ▷ Other versions of software and firmware may contain modified or new functions that are not described in this software manual.

#### Hardware

The following hardware is required for operation:

- Hard disk: min. 1 GB free memory space
- Monitor: Resolution of min. 1024x768 pixels, 32-bit colour depth

### 5.2 Hardware



- ▷ Detailed information on installation and electrical connection can be found in the operating instructions of the device: [documentation.ifm.com](https://documentation.ifm.com)

### 5.3 Software

#### Installing ifm Vision Assistant

- ▶ Download the ifm Vision Assistant: [documentation.ifm.com](https://documentation.ifm.com)
- ▶ Copy the zip file to a directory on the PC and unzip.
- ▷ ifm Vision Assistant is installed and can be started via `ifmVisionAssistant.exe`.



#### ifm Vision Assistant does not start

- ▷ If ifm Vision Assistant does not appear within 5 to 10 seconds after starting:
  - ▶ Check the system requirements.
  - ▶ Check the unzipped zip file for completeness.

#### Obtaining a licence

A licence key is required to activate the Monitoring Tool. The licence can be obtained online:

- Monitoring Tool incl. connection to 6 devices: [E3D310](#)
- Connection to an additional device: [E3D311](#)

#### Activating the Monitoring Tool

- ▶ Start `ifmVisionAssistant.exe`.
- ▶ Click the [Monitoring Tool] tile.
- ▶ Activate the licence online or offline.

### 5.3.1 Uninstall

Uninstalling ifm Vision Assistant:

► Delete the installation folder of the ifm Vision Assistant.

▷ The ifm Vision Assistant is uninstalled.



▷ Existing settings and log files are not deleted.

Deleting the settings and log files:

► Delete the following directory: „%AppData%\ifm electronic\ifmVisionAssistant“

## 6 Start page

The start page contains the basic functions of the ifm Vision Assistant.

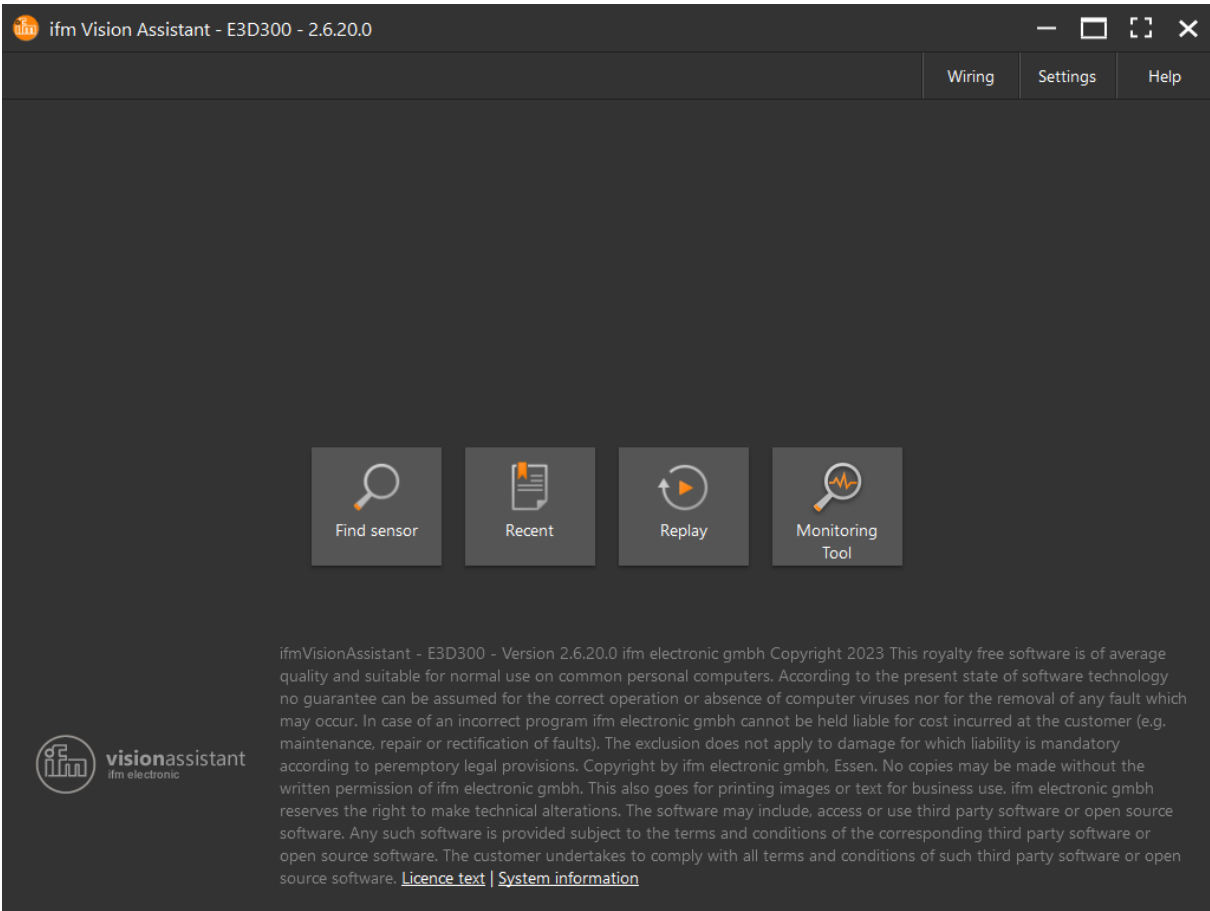


Fig. 1: Start page

| Indicator | Name        | Description                         |
|-----------|-------------|-------------------------------------|
|           | Zoom out    | Reduces the size of the window.     |
|           | Zoom in     | Enlarges the window.                |
|           | Full screen | Displays the window in full screen. |
|           | Exit        | Closes the software.                |

Tab. 1: Title bar

 With the F11 key, you can switch between full screen and window view.

| Name       | Description                                                        |
|------------|--------------------------------------------------------------------|
| [Wiring]   | Displays information on wiring and connection aids.                |
| [Settings] | Sets the language and colour of the user interface.                |
| [Help]     | Displays the documentation and contact information of the support. |

Tab. 2: Menu bar

| Button                                                                            | Name            | Description                                                                                                                                             |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Find sensor     | Searches for connected devices and displays them in a list.<br>For this function, the device must be connected.                                         |
|  | Recent          | Displays devices that have already been used before in a list.<br>For this function, the device must be connected.                                      |
|  | Replay          | Plays back a saved image capture.                                                                                                                       |
|  | Monitoring Tool | Starts the Monitoring Tool. ( <a href="#">→ Monitoring Tool</a>  11) |

Tab. 3: Buttons



If the devices are connected via the [Find sensor] or [Recent] buttons, the [Monitoring Tool] can no longer be started.

- Start the [Monitoring Tool] and then connect the devices.

## 7 Monitoring Tool

The [Monitoring Tool] contains functions for simultaneous monitoring of several devices. The devices are displayed in dashboards. The ["Overview"] dashboard shows the devices side by side. The dashboards can be customised and extended by additional views.

### First start

When the Monitoring Tool is started for the first time, the [Open project] and [New project] buttons are displayed:

- [Open project]: Opens an already existing project. A project contains added devices and dashboards. After clicking the button, a project file can be selected. Project files contain the extension "`*.vismon`".
- [New project]: Creates a new project. A project contains added devices and dashboards. After clicking the button, the [Add device to monitoring] window is displayed. Devices can be added to the project in this window.

### Add device

The [Add device to monitoring] window is displayed when

- creating a new project,
- clicking the [Add device] button.



Each device must have its own IP address.

- ▷ If several devices have the same IP address, the same device will be displayed several times in the [Monitoring Tool].
- ▶ Set the [IP address] in the ifm Vision Assistant in the [Device setup] in the [Network] area.

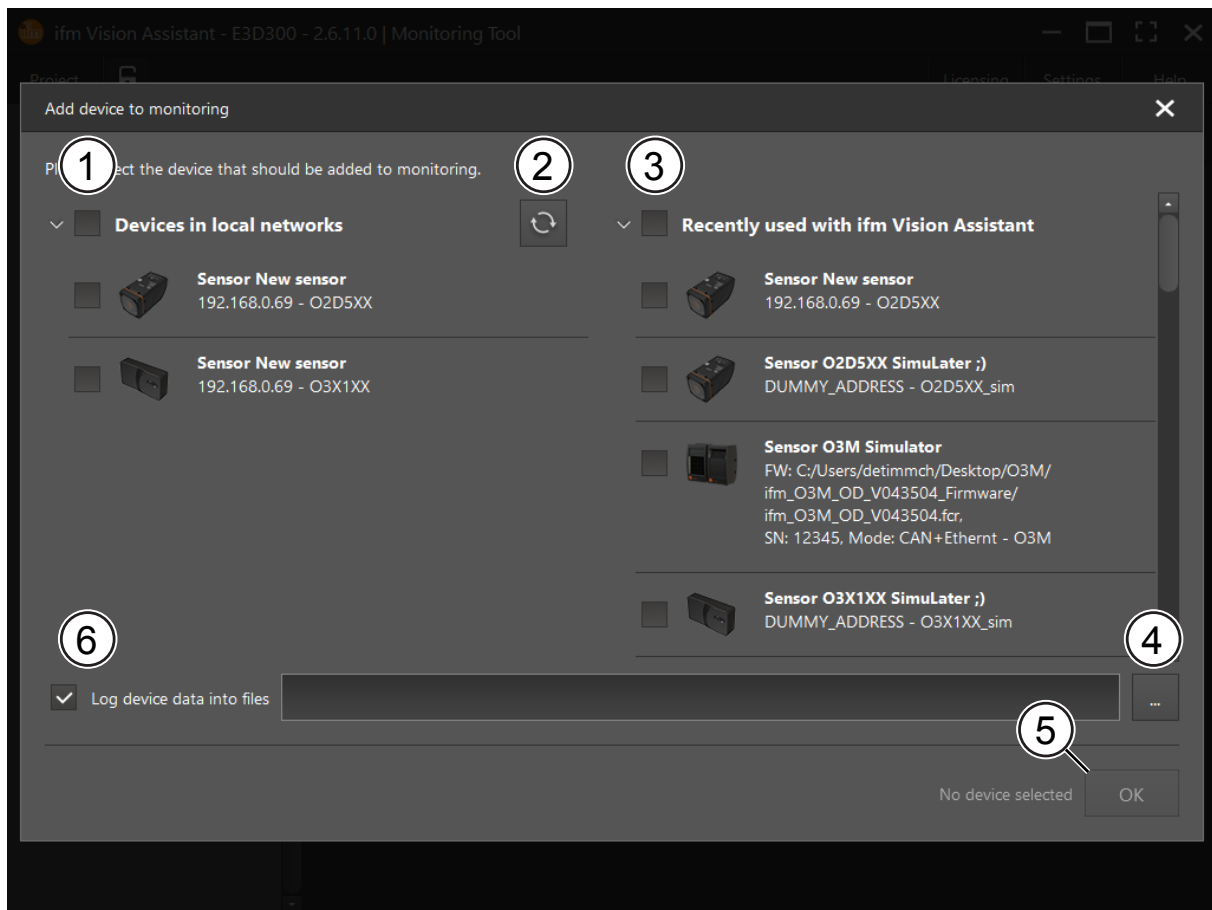


Fig. 2: Adding a device to the monitoring

- |                                             |                                |
|---------------------------------------------|--------------------------------|
| 1 [Devices in local networks]               | 2 [Update]                     |
| 3 [Recently used with ifm Vision Assistant] | 4 [Select directory]           |
| 5 [OK]                                      | 6 [Log device data into files] |

The [Add device to monitoring] window contains the following operating elements:

| Operating element                                                                   | Type     | Description                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Devices in local networks]                                                         | Checkbox | Shows the devices found in the local network.<br>The devices are selected via the check-boxes.                                                                                                                                                                                                                                                                          |
|  | Button   | Updates the list of [devices in local networks].                                                                                                                                                                                                                                                                                                                        |
| [Recently used with ifm Vision Assistant]                                           | Checkbox | Shows the devices recently used with ifm Vision Assistant.<br>The devices are selected via the check-boxes.                                                                                                                                                                                                                                                             |
| [...]                                                                               | Button   | Selects a directory for data logging.                                                                                                                                                                                                                                                                                                                                   |
| [OK]                                                                                | Button   | Adds the selected devices to the [Monitoring Tool].<br>The [OK] button can be clicked as soon as <ul style="list-style-type: none"> <li>at least 1 device has been selected,</li> <li>the [Log device data into files] checkbox has been activated and a directory has been selected,</li> <li>the [Log device data into files] checkbox has been unchecked.</li> </ul> |

| Operating element            | Type     | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Log device data into files] | Checkbox | <p>Starts data logging for the selected devices in the selected directory. Data logging provides support</p> <ul style="list-style-type: none"> <li>for quality assurance and</li> <li>for the documentation and monitoring of production results.</li> </ul> <p>For every image taken, the data logging includes:</p> <ul style="list-style-type: none"> <li>CHUNKS file</li> <li>JSON file</li> <li>JPG file</li> </ul> |



A CHUNKS file is approx. 1 MB in size. Depending on the number of images taken per second, the selected directory will fill up very quickly.

After clicking the [OK] button, the selected devices are shown in the device menu and in the ["Overview"] dashboard.

## 7.1 Overview

After adding, the devices are shown in the [device menu] (12) and in the ["Overview"] dashboard (6).

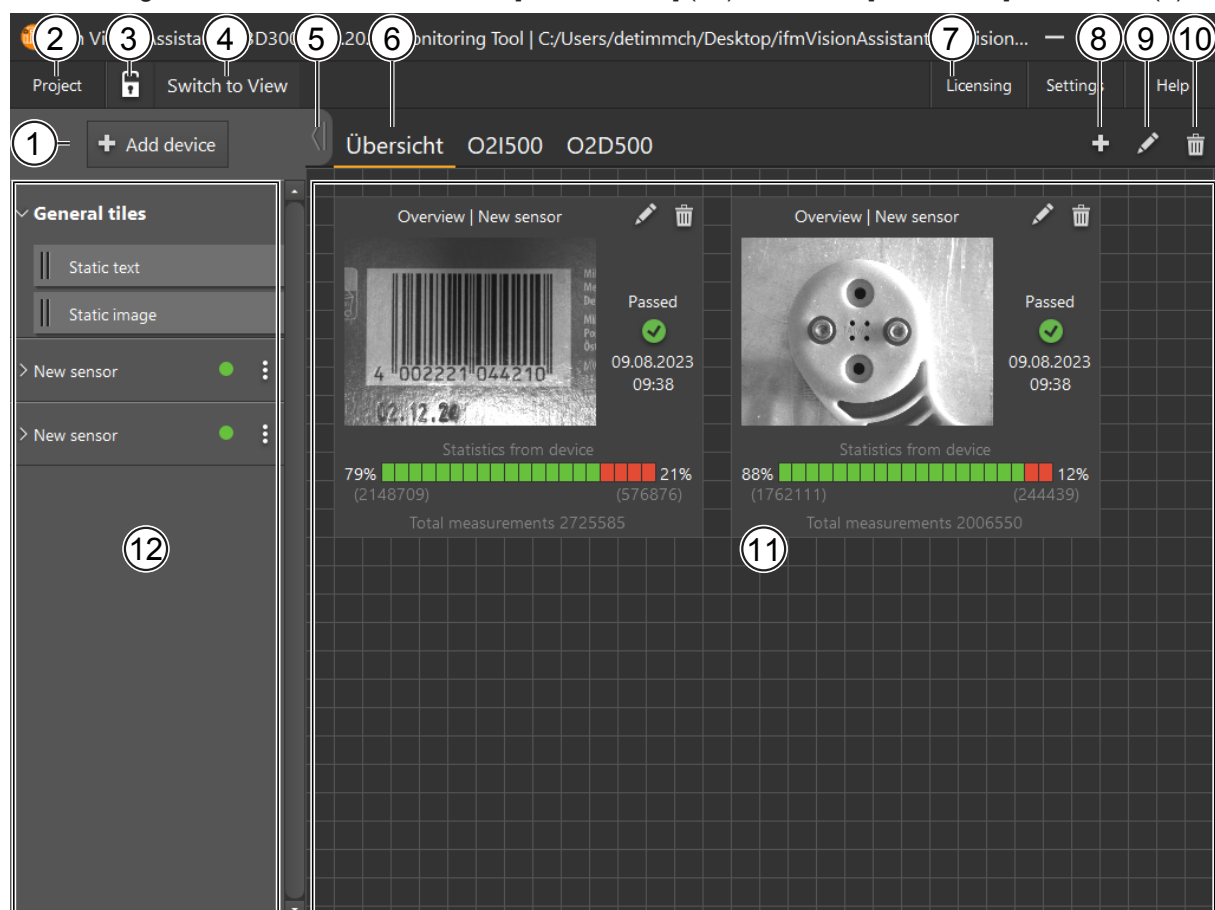


Fig. 3: Overview

- |                      |                           |
|----------------------|---------------------------|
| 1 [Add device]       | 2 [Project]               |
| 3 [Lock project]     | 4 [Switch to View / Edit] |
| 5 [Hide device menu] | 6 [Dashboards]            |
| 7 [Licensing]        | 8 [Add dashboard]         |
| 9 [Rename dashboard] | 10 [Remove dashboard]     |
| 11 [Main area]       | 12 [Device menu]          |

## Add device

The [Add device] button adds devices to the [device menu]. Monitoring Tool The devices can then be added to the [dashboards].

## Project

The [Project] tab contains the following operating elements for creating, opening and saving projects:

| Operating element      | Description                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [New]                  | Creates a new project. Any currently open project is closed. The [Add device to monitoring] window opens.                                                                |
| [Open ...]             | Opens a project file. Project files contain the extension "*.vismon".                                                                                                    |
| [Recent projects]      | Shows recently used projects. Clicking on the project name opens the project.                                                                                            |
| [Save]                 | Saves the added devices and settings in a project. When the project is saved for the first time, a name must be entered. Project files contain the extension "*.vismon". |
| [Save as ...]          | Saves the added devices and settings in a project. A name must be entered for the project. Project files contain the extension "*.vismon".                               |
| [Set project password] | Sets a password for the project. Afterwards, the project can only be edited after entering the password.                                                                 |
| [Close]                | Closes the open project. Before this, you are asked whether changes to the project are to be saved.                                                                      |

## Lock project

The  button locks the project so that no changes are possible.

| Operating element                                                                   | Description                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The lock is not active. The project can be edited.                                                                                                                                                                                                                                                                                 |
|  | The lock becomes active after a password has been set. The project cannot be edited. It is possible to view dashboards that have already been created.<br>The following operating elements are locked: <ul style="list-style-type: none"> <li>• Add, edit and remove device</li> <li>• Add, rename and remove dashboard</li> </ul> |

## Switch to View / Edit

The [Switch to View / Edit] button switches between the following modes:

- [View]: view dashboards,
- [Edit]: edit dashboards.



If the project is locked via the  button, it is only possible to switch from [View] to [Edit] mode after entering the password.

## Hide device menu

The [Hide device menu] button hides the [device menu]. This increases the space available for dashboards in the main area. Another click of the button shows the device menu again.

## Dashboards

Each dashboard consists of a tab and a [main area]. Tiles can be assigned freely to the main area. The tiles are dragged from the [device menu] into the main area. Clicking and holding with the mouse repositions the tiles.

## Licensing

The [Licensing] menu shows the number of licences used and available. The [Add licence] button adds a licence.

## Add dashboard

The  [Add dashboard] button adds a new dashboard. After clicking the button, the following list is displayed:

| List item            | Description                                                                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Flexible dashboard] | Creates an empty dashboard. In the [device menu], tiles are provided that can be dragged and dropped into the main area of the dashboard.                                                                                         |
| [Device table]       | Creates a dashboard with a tabular view of the added devices. The table contains information such as device type, IP address, active application, statistical data etc.                                                           |
| [Device details]     | Creates a dashboard that shows the [Monitor] area of the added devices. The [Monitor] area shows the received data of the device in a live image. The application is monitored in this area. The device is in the operating mode. |



This function is not available in [View] mode.

► Switch to [Edit] mode.

## Rename dashboard

The  [Rename dashboard] button changes the name of the selected dashboard. After clicking the button, the current name is highlighted in an input field and can be changed.

## Remove dashboard

The  [Remove dashboard] button deletes the selected dashboard irrevocably after a warning has been acknowledged.

## Main area

Each dashboard consists of a tab and a [main area]. Tiles can be assigned freely to the main area. The tiles are dragged from the [device menu] into the main area. Clicking and holding with the mouse repositions the tiles.

Main area

## Device menu

The [device menu] shows the connected devices Device menu.

The functions of the devices are provided as tiles. The tiles are dragged from the [device menu] into the main area. The tiles are modified in the main area.

Device menu

## 7.2 Main area

Each dashboard consists of a tab and a [main area]. Tiles can be assigned freely to the main area. The tiles are dragged from the [device menu] into the main area. Clicking and holding with the mouse repositions the tiles.

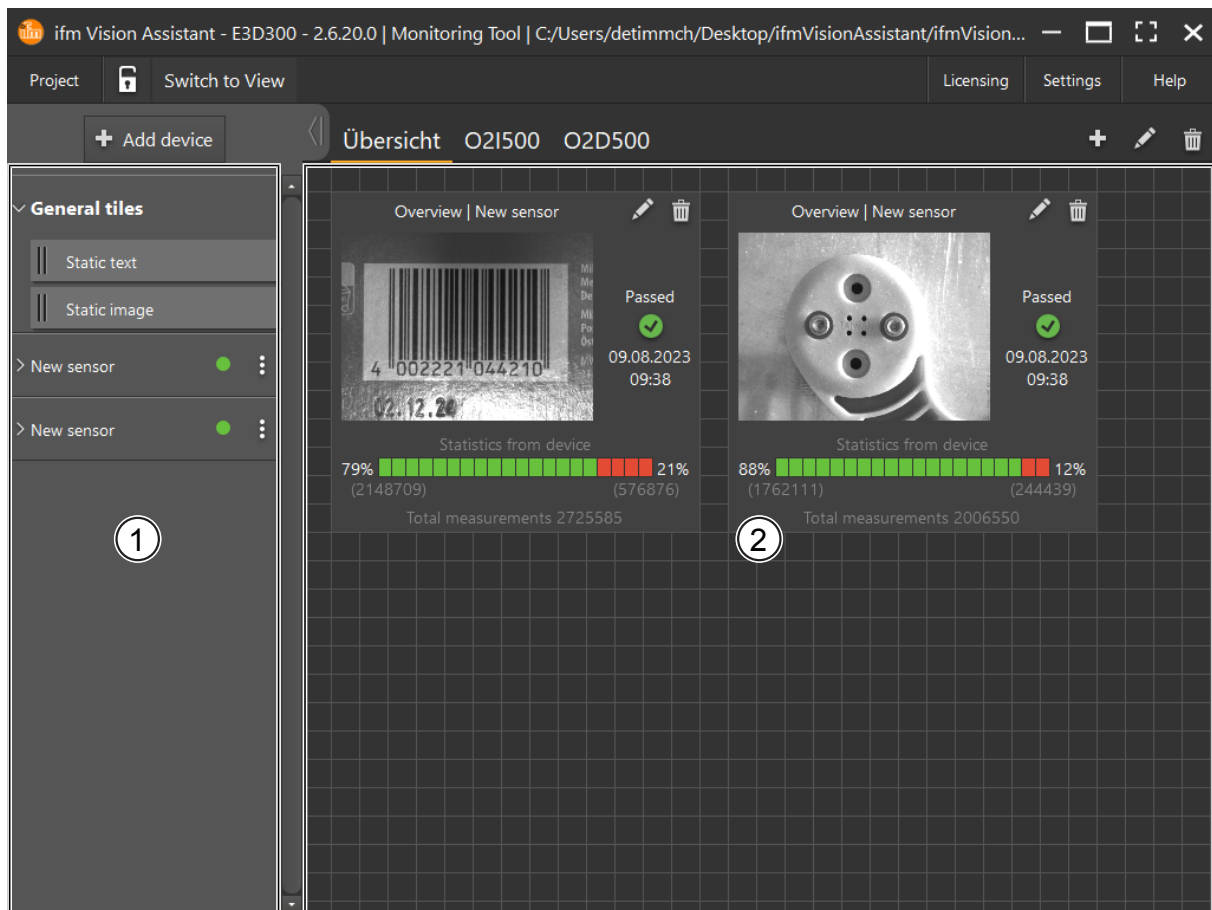


Fig. 4: Device menu and main area

1 Device menu

2 Main area

### 7.3 Device menu

The [device menu] shows the connected devices Device menu.

The functions of the devices are provided as tiles. The tiles are dragged from the [device menu] into the main area. The tiles are modified in the main area.

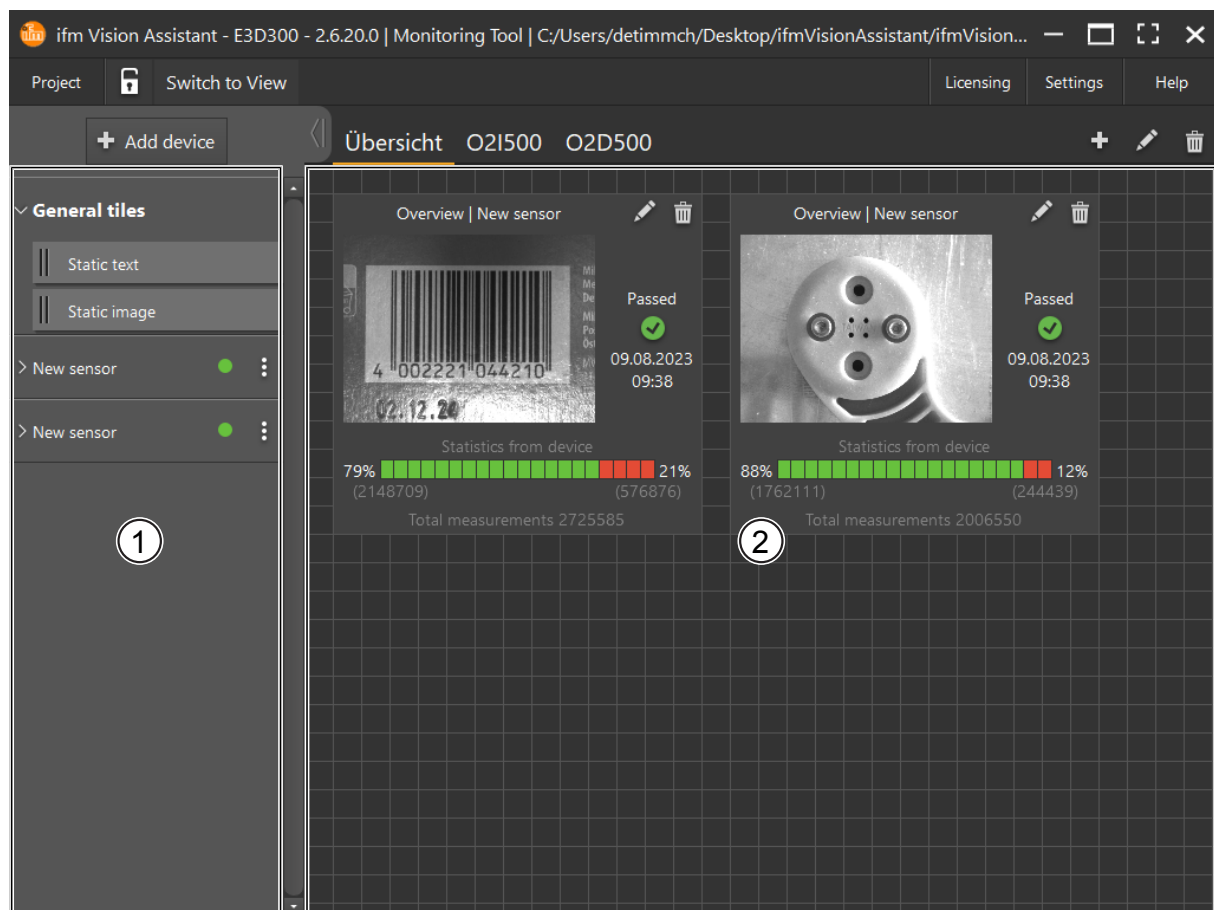


Fig. 5: Device menu and main area

1 Device menu

2 Main area

### Device menu

The connected devices are shown in the device menu. The functions of the device are listed under the device name [New sensor].

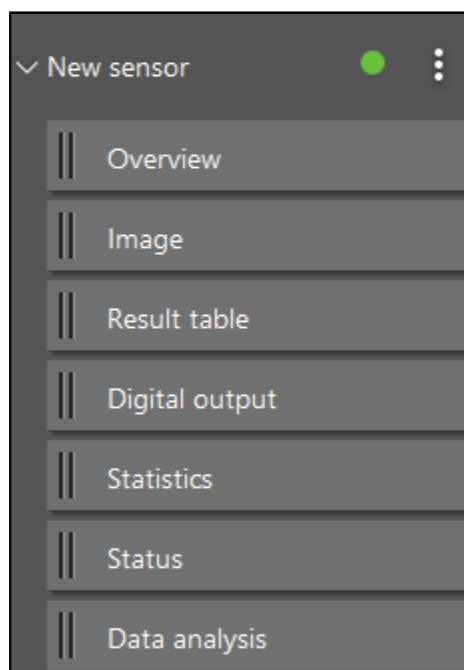


Fig. 6: Functions of the device

Functions are dragged into the main area with the mouse. The function is displayed as a tile in the main area.

The following status indicators and buttons are displayed next to the connected device:

| Status indicator                                                                                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  /  | Shows the status of the application active on the device.<br><br> : The application is successfully executed (passed). For example, the object or code searched for has been detected.<br> : The application is not successfully executed (failed). For example, the object or code searched for is obscured or the lighting situation has deteriorated. |
|                                                                                      | Shows the status of the data logging. If the status indicator is visible, data logging is active.                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Button                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Shows the settings of the device:<br>[Text output] > [Result model JSON]: Shows the current result of the application as a JSON file.<br>[Text output] > [Logic RTI]: Shows intermediate results of the logic configuration. The logic configuration is described in the software manual of the ifm Vision Assistant (→ Logic function).<br>[Device commands] > [Device details]: Shows information about the device.<br>[Device commands] > [Reset statistics]: Resets the statistics, which are shown in the Overview tile, among others.<br>[External tools] > [Launch iVA]: Launches another instance of the ifm Vision Assistant with which the device can be set. For example, the exposure time can be adjusted.<br>[External tools] > [Launch web browser]: Launches the web browser, which offers service files and documentation of the device for download.<br>[Monitoring active]: Activates / deactivates the monitoring.<br>[Data logging active]: Activates / deactivates data logging. The setting can be activated if a [logging directory] has been defined under [Device monitoring configuration] > [Data logging].<br>[Device monitoring configuration]: Sets the monitoring and data logging Device monitoring configuration.<br>[Remove device from monitoring]: Removes the device from the device menu. |

## General tiles

The [General tiles] list contains general tiles that are device-independent. The tiles are used to add text and images to the dashboard.

| Tile           | Description                    |
|----------------|--------------------------------|
| [Static text]  | Displays a configurable text.  |
| [Static image] | Displays a configurable image. |

## New sensor

The [New sensor] list contains the functions of the device as tiles:

| Tile            | Description                              |
|-----------------|------------------------------------------|
| Overview        | Shows a summary of the device status.    |
| Image           | Shows the live image.                    |
| [Result table]  | Shows the model results.                 |
| Digital output  | Shows the status of the digital outputs. |
| Statistics      | Shows the statistics.                    |
| Status          | Shows the status.                        |
| [Data analysis] | Shows the data analysis.                 |

### 7.3.1 General tiles

The [General tiles] list contains general tiles that are independent of added devices. The tiles are used to add text and images to the dashboard.

#### [Static text] tile

The [Static text] tile displays a configurable text.

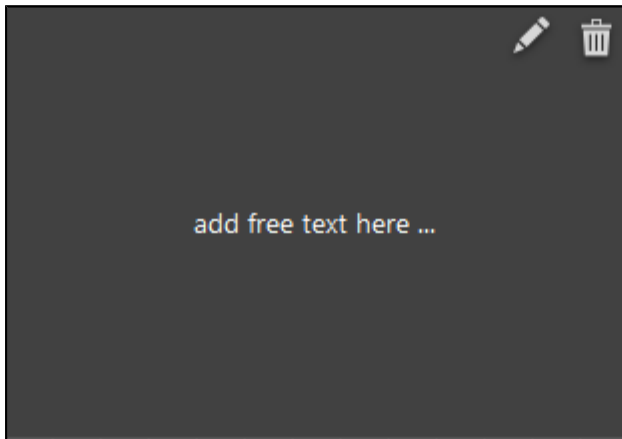


Fig. 7: [Static text] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button                                                                              | Description                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Shows the settings of the tile. The settings differ depending on the tile. |
|  | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

Text: Sets a text to be shown within the tile.

[Text colour]: Sets the colour of the text.

[Bold font]: Activates bold font for the text.

[Font size]: Sets the size of the characters.

[Transparent background]: Activates a transparent background for the text.

#### [Static image] tile

The [Static image] tile displays a configurable image.

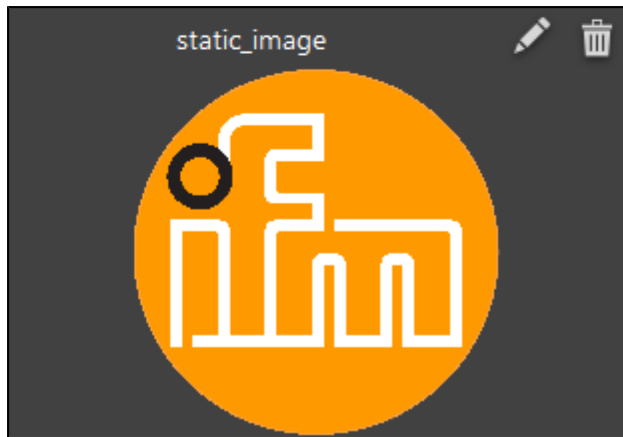


Fig. 8: [Static image] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button                                                                            | Description                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Shows the settings of the tile. The settings differ depending on the tile. |
|  | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

[Image]: Sets an image to be displayed within the tile. A jpg, jpeg, gif or png image can be selected.

[Keep aspect ratio]: Maintains the aspect ratio of the image.

[Move to background]: Moves the tile behind other tiles.

[Render image]: Sets the rendering of the image.

### 7.3.2 “Overview” tile

The [Overview] tile shows a summary of the device status.

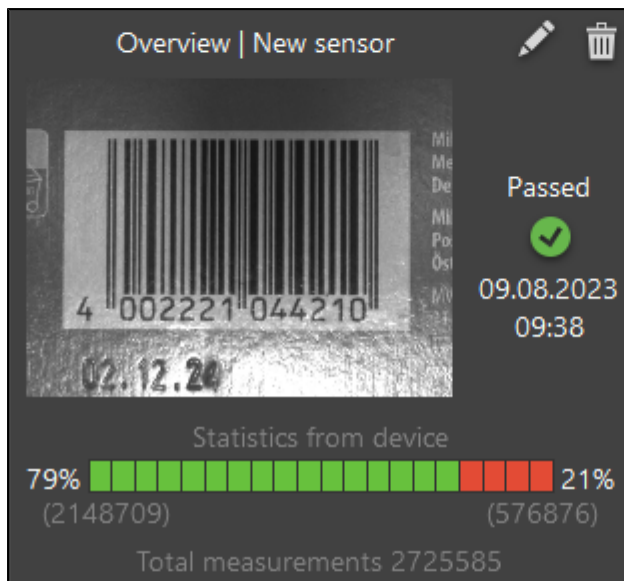


Fig. 9: [Overview] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button | Description                                                                |
|--------|----------------------------------------------------------------------------|
|        | Shows the settings of the tile. The settings differ depending on the tile. |
|        | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

[Linked dashboard]: Sets the dashboard to switch to when the tile is clicked.

[Image carousel]: Alternately shows the images contained in the active application. To change between the images:

- ▶ Click the image with the mouse and drag it to the side.
- ▶ Click the dots at the bottom of the image with the mouse.
- ▶ With a touch display, drag the image to the side with your finger in a swiping motion.

[Image channel]: Sets an image from the active application.

[ROI overlay]: Shows the set ROI (region of interest) as an overlay.

[Code overlay]: Shows the detected code as an overlay, depending on the model and the results.

[Contour/OCR overlay]: Shows the detected contour and OCR text as an overlay, depending on the model and the results.

[BLOB overlay]: Shows the detected BLOB as an overlay. The transparency of the BLOB is set via the slider.

### 7.3.3 “Image” tile

The [Image] tile shows the live image of the device.



Fig. 10: [Image] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button                                                                            | Description                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Shows the settings of the tile. The settings differ depending on the tile. |
|  | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

[Image carousel]: Alternately shows the images contained in the active application. To change between the images:

- Click the image with the mouse and drag it to the side.
- Click the dots at the bottom of the image with the mouse.
- With a touch display, drag the image to the side with your finger in a swiping motion.

[Image channel]: Sets an image from the active application.

[ROI overlay]: Shows the set ROI (region of interest) as an overlay.

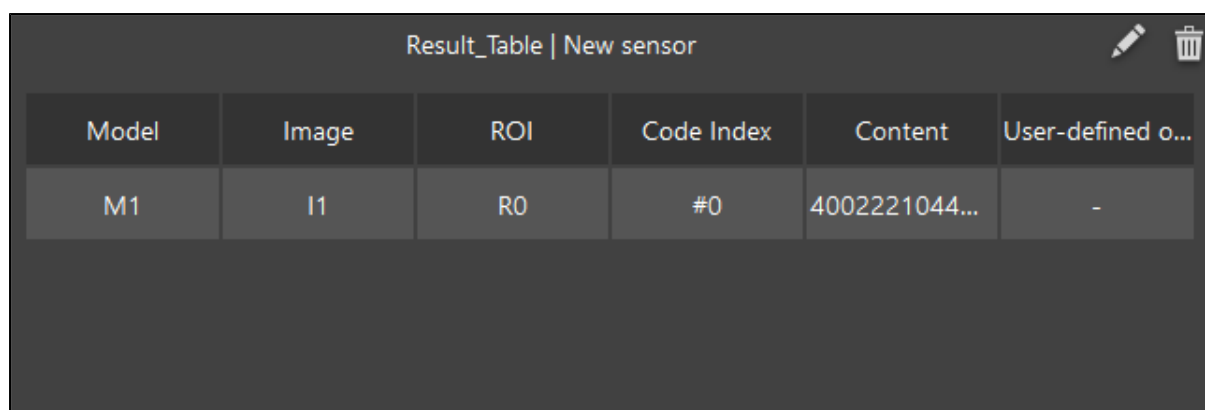
[Code overlay]: Shows the detected code as an overlay, depending on the model and the results.

[Contour/OCR overlay]: Shows the detected contour and OCR text as an overlay, depending on the model and the results.

[BLOB overlay]: Shows the detected BLOB as an overlay. The transparency of the BLOB is set via the slider.

### 7.3.4 “Result table” tile

The [Result table] tile shows the results of the code, OCR and contour detection in tabular form.



| Model | Image | ROI | Code Index | Content       | User-defined o... |
|-------|-------|-----|------------|---------------|-------------------|
| M1    | I1    | R0  | #0         | 4002221044... | -                 |

Fig. 11: [Result table] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button                                                                            | Description                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Shows the settings of the tile. The settings differ depending on the tile. |
|  | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

[Table contents]: Sets the contents of the table.

- [Codes and OCR] button: Shows the results of the code and OCR detection.
- [Contours] button: Shows the results of the contour detection.
- [Show ROI results] checkbox: Shows the results of the ROI groups.

[Show results of]: Limits the results to specific images and models.

[Sort by column]: Sorts the results by a specific column. The [invert order] checkbox reverses the sort order.

[Hidden columns]: Hides columns of the result table. The  button opens a selection list for selecting columns. The columns selected under [Hidden columns] are no longer shown in the result table.

### 7.3.5 “Digital output” tile

The [Digital output] tile shows the status of the digital outputs. The status is indicated by “ON” or “OFF” next to the output.

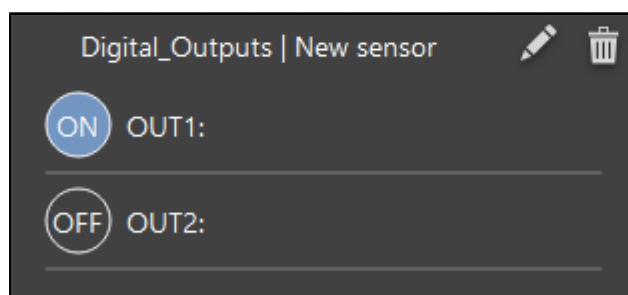


Fig. 12: [Digital output] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button                                                                            | Description                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Shows the settings of the tile. The settings differ depending on the tile. |
|  | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

[OUTn]: Assigns a name to the digital output “n”. The name is displayed next to the status of the output.



The number of digital outputs “n” depends on the respective device.

### 7.3.6 “Statistics” tile

The [Statistics] tile shows the statistics on the status of the active application. The following data is shown:

- Number of passed states of the active application in green
- Number of failed states of the active application in red
- Number of total measurements

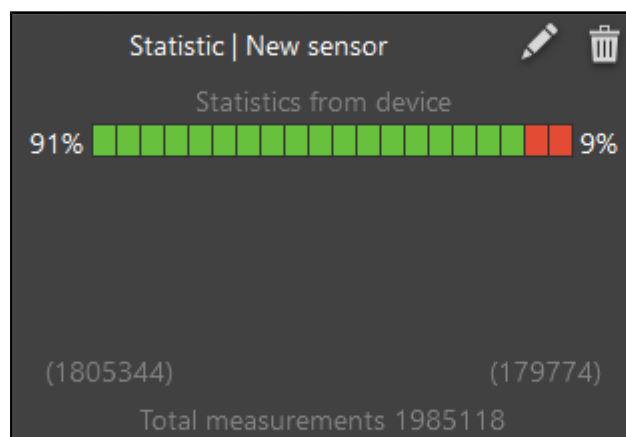


Fig. 13: [Statistics] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button                                                                              | Description                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Shows the settings of the tile. The settings differ depending on the tile. |
|  | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

### 7.3.7 “Status” tile

The [Status] tile shows the status of the selected application. The following data is shown:

- Status of the application
- Current time
- Current date

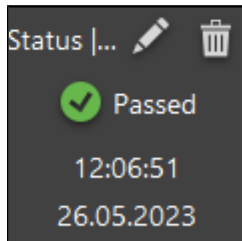


Fig. 14: [Status] tile

After dragging the tile into the main area, the following buttons are displayed within the tile:

| Button | Description                                                                |
|--------|----------------------------------------------------------------------------|
|        | Shows the settings of the tile. The settings differ depending on the tile. |
|        | Deletes the tile irrevocably after a warning has been acknowledged.        |

The tile contains the following settings:

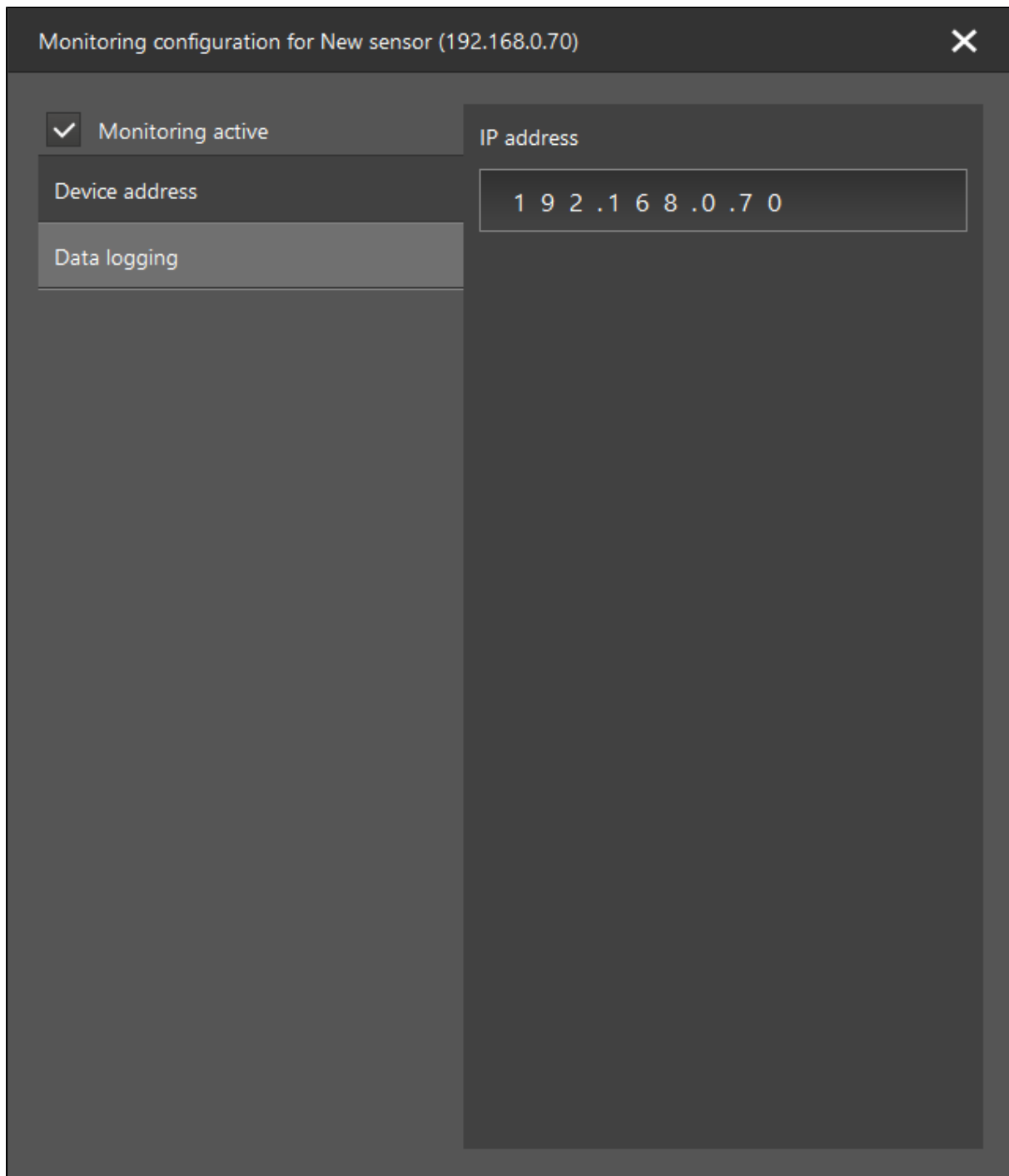
[Title]: Sets the title of the tile. The title is displayed at the top of the tile.

[Reaction when the tile is clicked]: Sets the reaction when the tile is clicked.

- [None]: No reaction when the tile is clicked.
- [Switch the dashboard]: Switches to a customisable dashboard when the tile is clicked. The dashboard is set in the [Linked dashboard] list.

### 7.3.8 Device monitoring configuration

The [Device monitoring configuration] sets the monitoring and data logging.



Monitoring configuration for New sensor (192.168.0.70) ✕

☒ Monitoring active

Device address

192.168.0.70

Data logging

Fig. 15: Monitoring configuration

The [Monitoring active] checkbox activates the monitoring.

### Device address

The [Device address] tab contains the following settings:

[IP address]: Sets the IP address of the device.

### Data recordings

The [Data logging] tab contains the following settings:

[Data logging active]: Starts the data logging. The data logging helps with troubleshooting and diagnostics. For every image taken, the data logging includes:

- CHUNKS file

- JSON file
- JPG file

A CHUNKS file is approx. 1 MB in size. Depending on the number of images taken per second, the selected directory will fill up very quickly.

[Logging directory]: Sets the directory for data logging.

[Which results should be logged?]: Sets the results to be saved:

- [All results]: All images including CHUNKS, JSON and JPG files are saved.
- [Only failed results]: The images incl. CHUNKS, JSON and JPG files are only saved if the application was not executed successfully. For example, if the object or code searched for is obscured or the lighting situation has deteriorated.
- [No result data]: No images are saved.

[Disk limit]: Sets a memory limit for the logging directory. The [disk limit] sets the memory to be kept free on the data carrier. When the memory limit is reached, no new data is stored in the logging directory.

[Thumbnail format]: Sets a file format for the thumbnail. The thumbnail is added to the data logging as a preview. Available file formats for the thumbnail:

- [JPEG]
- [BMP]
- [PNG]
- [no thumbnail]: Deactivates the thumbnail.

[Thumbnail image]: Sets the image used for the thumbnail:

- [First image]: Uses the 1. Image as thumbnail. [i1 New image 1]:
- Uses the current image from the device as a thumbnail.

[ROI overlay]: Shows the set ROI (region of interest) as an overlay.

[Code overlay]: Shows the detected code as an overlay, depending on the model and the results.

[Contour/OCR overlay]: Shows the detected contour and OCR text as an overlay, depending on the model and the results.

[BLOB overlay]: Shows the detected BLOB as an overlay. The transparency of the BLOB is set via the slider.