



Software manual

ifm mobileVisionAssistant for  
3D camera  
3D sensor

**O3D3xx**

**UK**

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## 1 Preliminary note

This document describes the app ifm mobileVisionAssistant for iPad.

ifm mobileVisionAssistant is a monitoring app for devices of the O3D3xx product family (hereinafter referred to as "device"). The app is solely designed for the iPad. With the app and a connected device the following functions are possible:

- Display data of connected devices in a 2D/3D image
- Monitor connected devices

Devices connected to a network can also be monitored remotely.



The iPad and the connected device must be in the same subnet (→ 3.2).

### 1.1 Symbols used

▶ Instructions

> Reaction, result

[...] Designation of keys and buttons

"..." Name of display text

→ Cross-reference



Important note

Non-compliance may result in malfunction or interference.



Information

Supplementary note

### 1.2 Safety instructions

Please read the operating instructions prior to set-up of the device. Ensure that the device is suitable for your application without any restrictions.

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

### 1.3 Further documents

The following documents are available for the devices of the product family O3D3xx:

- Short instructions
- Operating instructions
- Software manual ifm Vision Assistant
- Software manual ifm mobileVisionAssistant



The documents can be downloaded at:

[www.ifm.com](http://www.ifm.com)

## 2 System requirements

### 2.1 Network

The following points must be observed before connecting to a device:

- The iPad running ifm mobileVisionAssistant is connected to a network. The connection can be made via a wireless network (Wi-Fi or GSM with a SIM card).
- The Wi-Fi router the iPad is connected to is configured for the network.
- The live image mode is activated in the device. The live image mode must be activated once with the PC software ifm Vision Assistant (→ 5.6).
- The device is connected to the same subnet as the iPad. The IP address and the subnet mask must be set for the device. Detailed information about the configuration of the IP address of the device is given in (→ 5.7).



The PC software ifm Vision Assistant can be downloaded at:

[www.ifm.com](http://www.ifm.com)

### 2.2 Hardware

- iPad with iOS 9.1 or higher
- Device of the product family O3D3xx
- Wi-Fi router

### 2.3 Accessories

- Jumper for network connection (Ethernet) for setting parameters, 4 poles, M12 plug/RJ45 plug, art. no.: E11898 (2 m) or M12 plug/M12 plug, art. no.: E21138 (2 m)
- Connection cable for voltage supply and process connection, M12 socket, 5 poles, e.g. art. no. EVC070 (2 m, open cable end) or art. no. EVC071 (5 m, open cable end). Via this cable the O3D3xx camera is connected to the voltage supply.
- Power supply 24 V, 1.6 A, min. peak current 2.4 A
- Mounting set (clamp mounting) for mounting the camera, e.g. art. no. E3D301.



More information about available accessories is given at [www.ifm.com](http://www.ifm.com).

## 3 Installation

### 3.1 Software

The app ifm mobileVisionAssistant can be downloaded from the App Store.

The following symbol directly leads you to the App Store:



If the link does not work, you can search for the app in the App Store by entering "ifm mobileVisionAssistant".

### 3.2 Network

The iPad and one or several devices must be connected as follows:

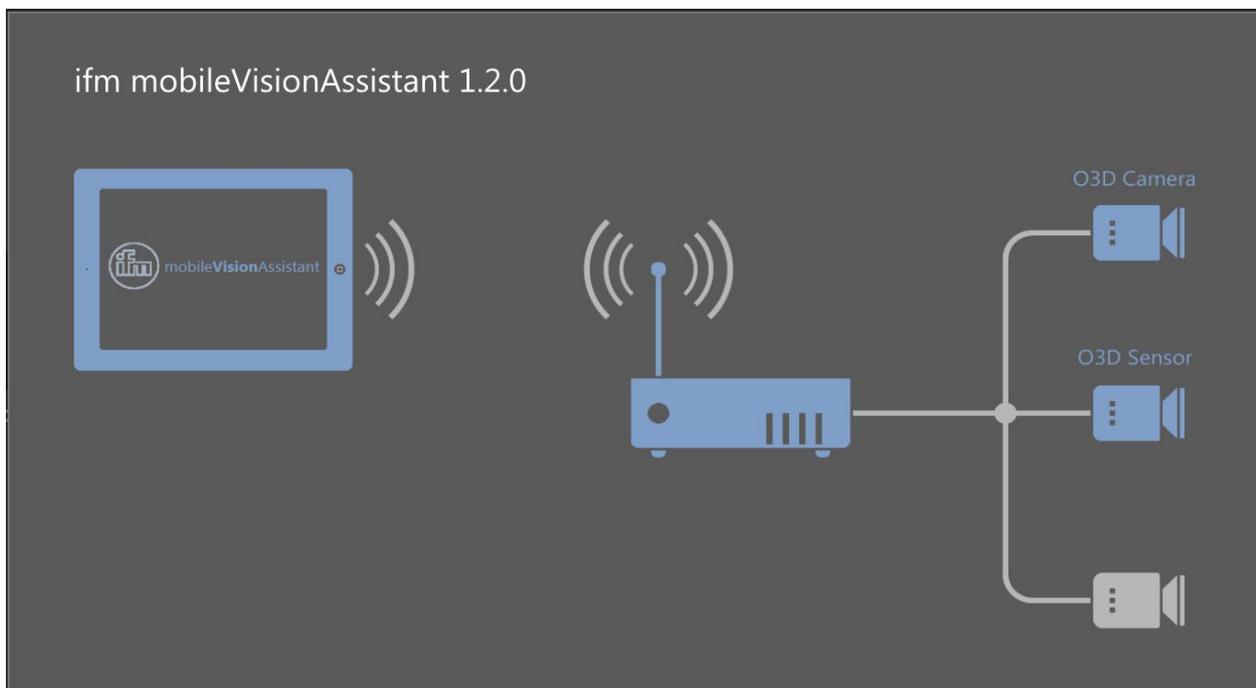


Figure 1: Structure of the network



The iPad and the connected device must be in the same subnet.

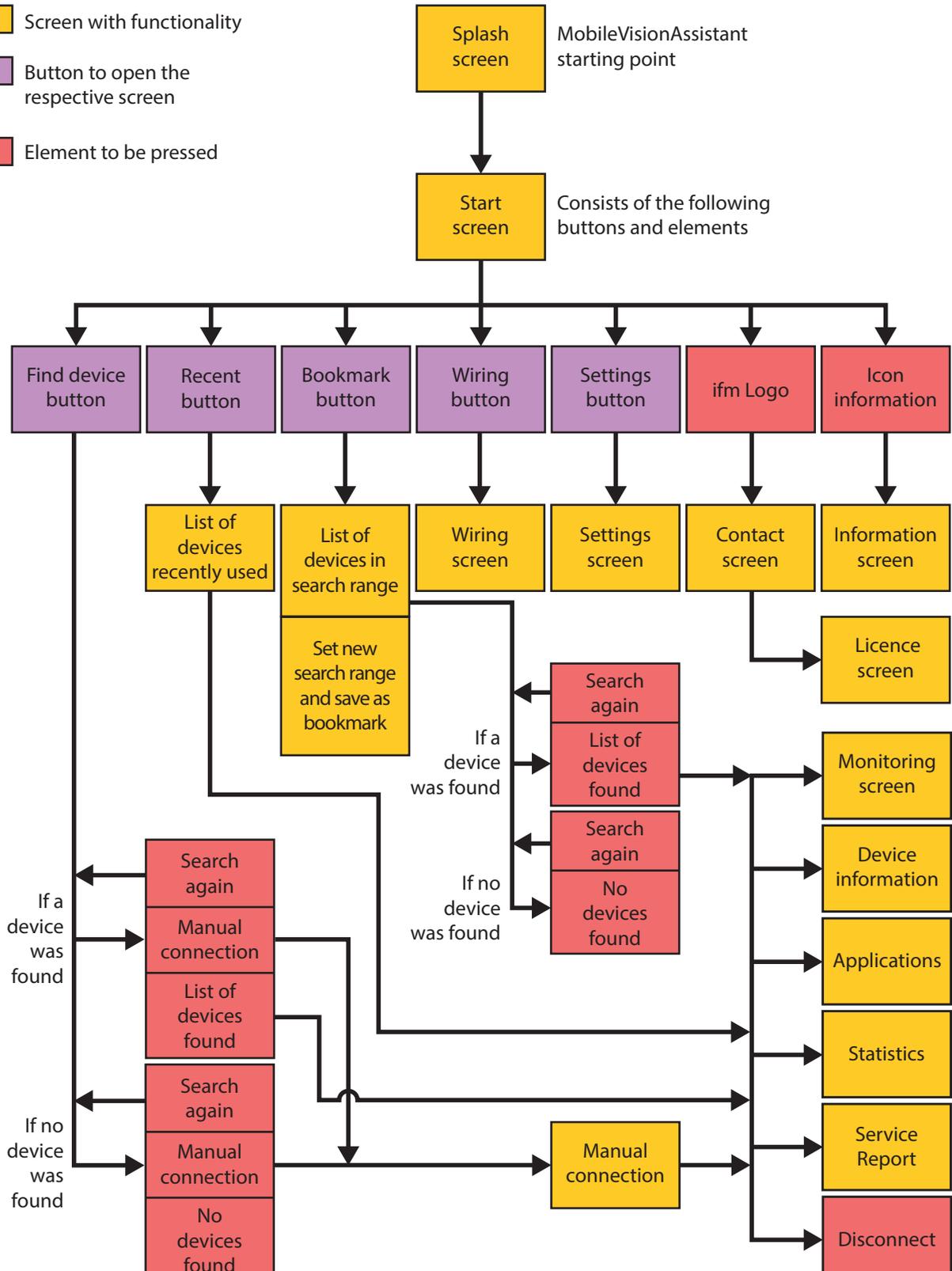
## 4 Navigation

The flow chart shows the basic navigation within the ifm mobileVisionAssistant.



Select one of the elements to directly jump to the respective section.

- Screen with functionality
- Button to open the respective screen
- Element to be pressed



## 4.1 Splash screen

When starting the app the splash screen is loaded, as shown in Figure 2. This screen displays the "ifm" logo and the name of the app via a loading animation.



Figure 2: Splash screen

## 4.2 Splash screen

After the splash screen the start screen opens. The start screen displays the buttons [Find device], [Recent], [Bookmarks], [Wiring] and [Settings]. On the bottom of the start screen there are the buttons [ifm logo] and [Information].



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Figure 3: Start screen

### Functions of the start screen

Button	Name	Function
	Find device	Connection with the newly connected device. Searches for connected devices and displays a selection list of the devices found (→ 4.2.1).
	Recent	Connection with a device which was connected and may already be configured. Opens a selection list of the devices which were already connected (→ 4.2.2).
	Bookmarks	Searches for devices in the set IP address range and saves the IP address ranges as bookmarks (→ 4.2.3).
	Wiring	Display of the wiring of the voltage supply. The display is a connection aid for the set-up of a device (→ 4.2.4).
	Settings	Language and image mode setting of the user interface (→ 4.2.5).
	Contact	Display of contact details of the ifm branches and the licence agreement (→ 4.2.6).
	Information	Display of the network structure of ifm mobileVisionAssistant with a device (→ 4.2.7).

### 4.2.1 Find device

The button  shows information about the connected devices.



The iPad and the devices must be in the same subnet.

The devices found in the subnet are displayed with name, IP address and device designation (Figure 4).

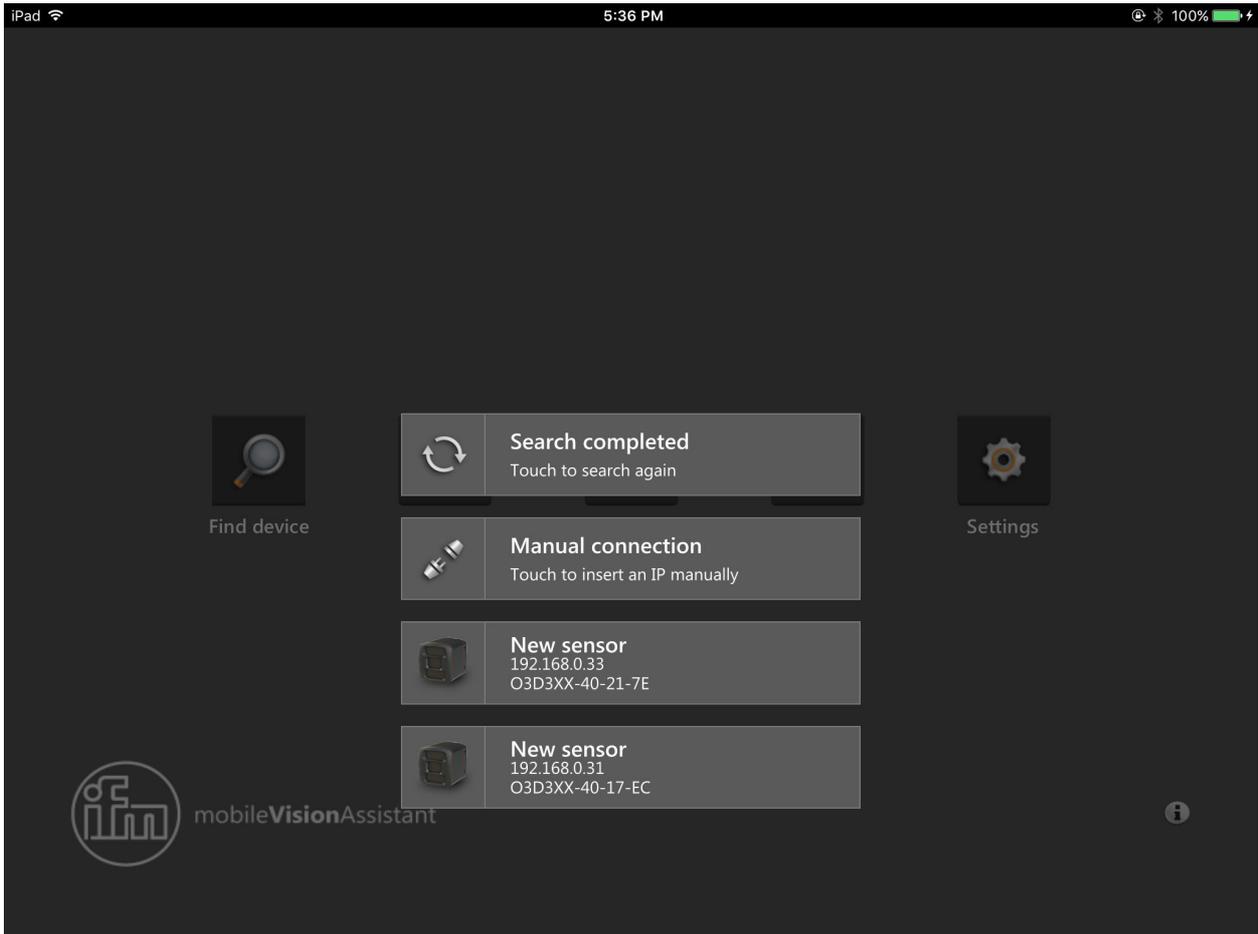


Figure 4: Device found

Button	Name	Function
	Search completed	Search again for devices in the subnet.
	Manual connection	Manually connect with the IP address of a device.
	New sensor	Connect to the device found.

If no device was found via the button [Find device], a message is displayed (Figure 5).

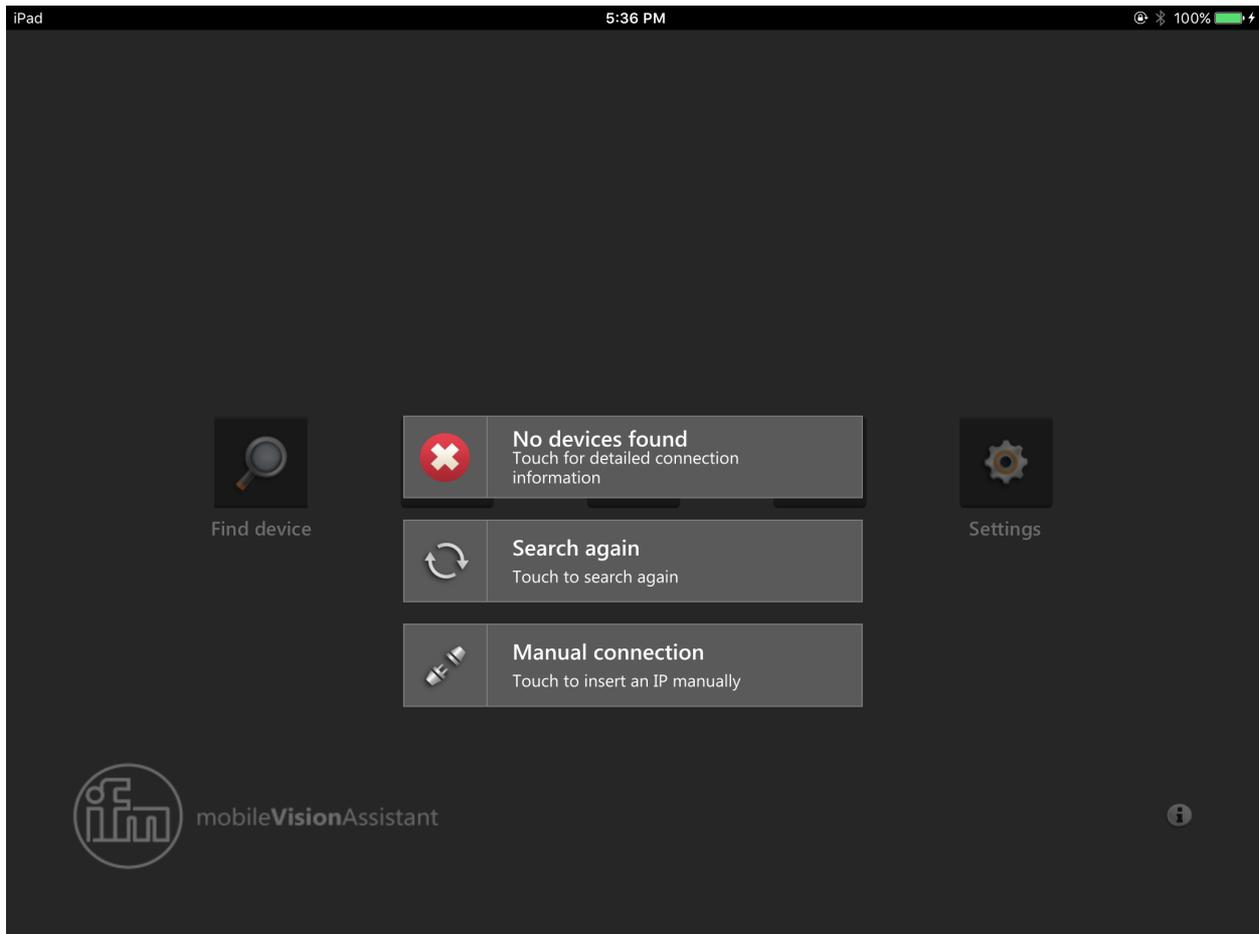


Figure 5: No devices found

Using the buttons you can search again for devices or manually connect to a certain IP address.

Button	Name	Function
	No devices found	No device was found in the subnet.
	Search again	Search again for devices in the subnet.
	Manual connection	Manually connect with the IP address of a device.

If via the button [Find device] it is not possible to connect to a device, an error message is displayed (Figure 6).

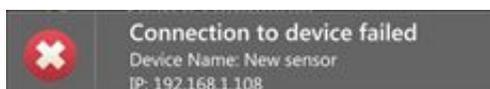


Figure 6: Error message

After pressing the button [Manual connection] the IP address of the device can be entered (Figure 7).



While entering the IP address, it is checked for validity and the dots are automatically added.

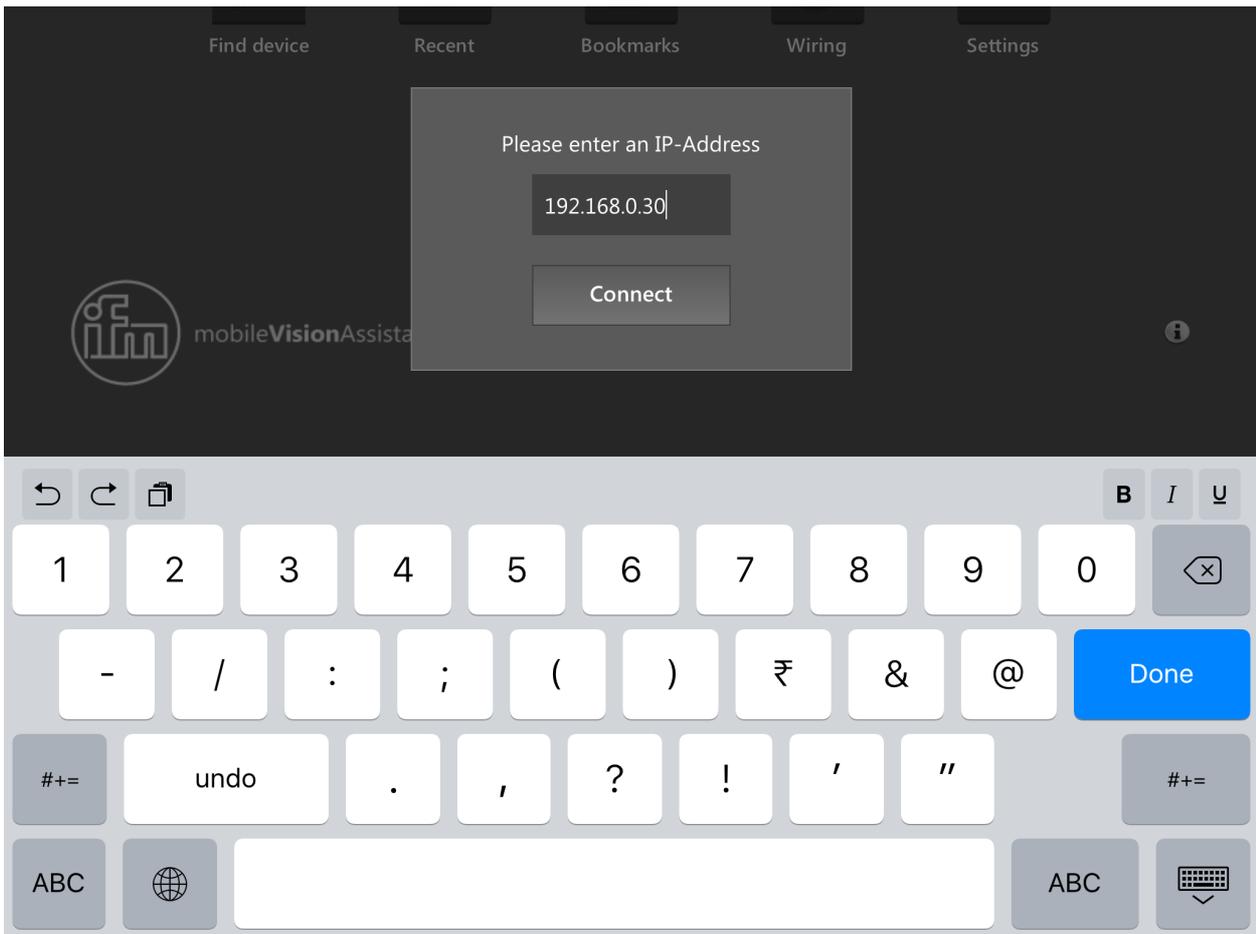


Figure 7: Manual connection

## 4.2.2 Recent

The button  indicates devices which were connected and may already be configured.

The device recently connected is indicated at the top of the list.

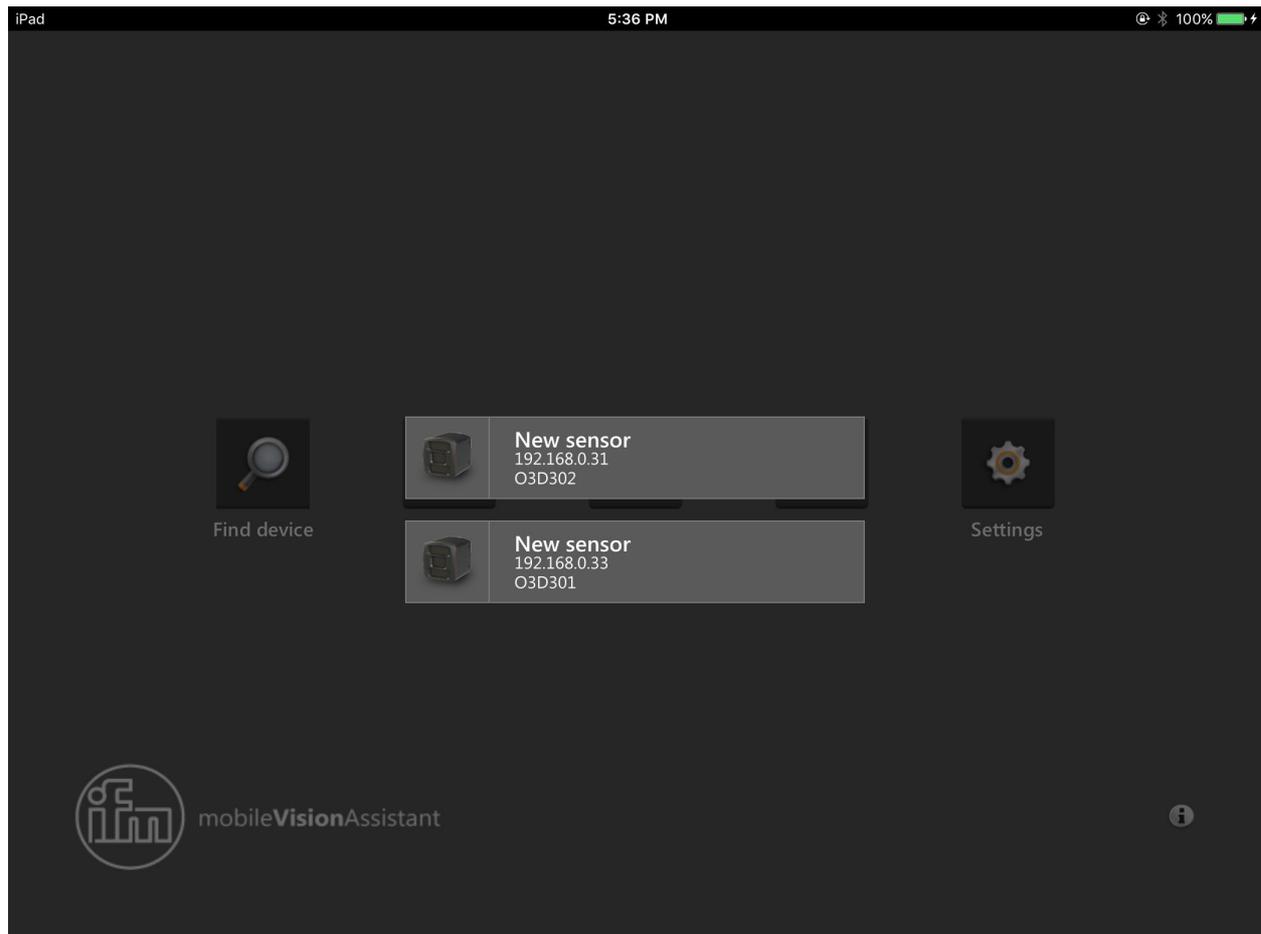


Figure 8: Devices recently used

 The button [Recent] is deactivated if ifm mobileVisionAssistant has not yet been connected to a device.

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### 4.2.3 Bookmarks

The button  searches for devices in the set search area (IP address range).

The search ranges can be saved as bookmarks.

Example:

- Bookmark 1: search range on the ground floor
- Bookmark 2: search range on floor 1
- etc.

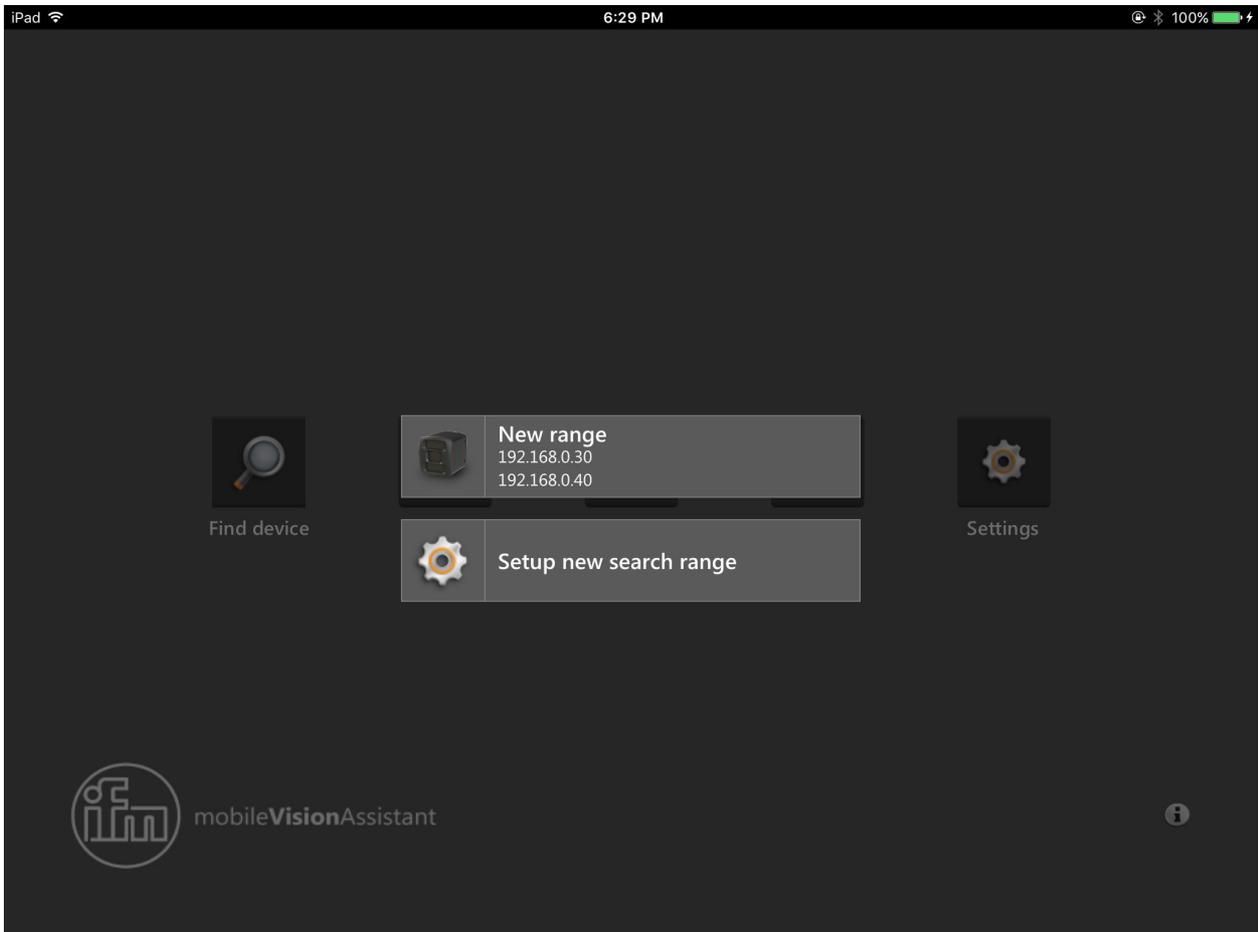


Figure 9: Bookmarks

After pressing a bookmark (Figure 9 "New range") devices are searched for in the set search range.

When the button [Setup new search range] has been pressed, the search range of Figure 10 opens.

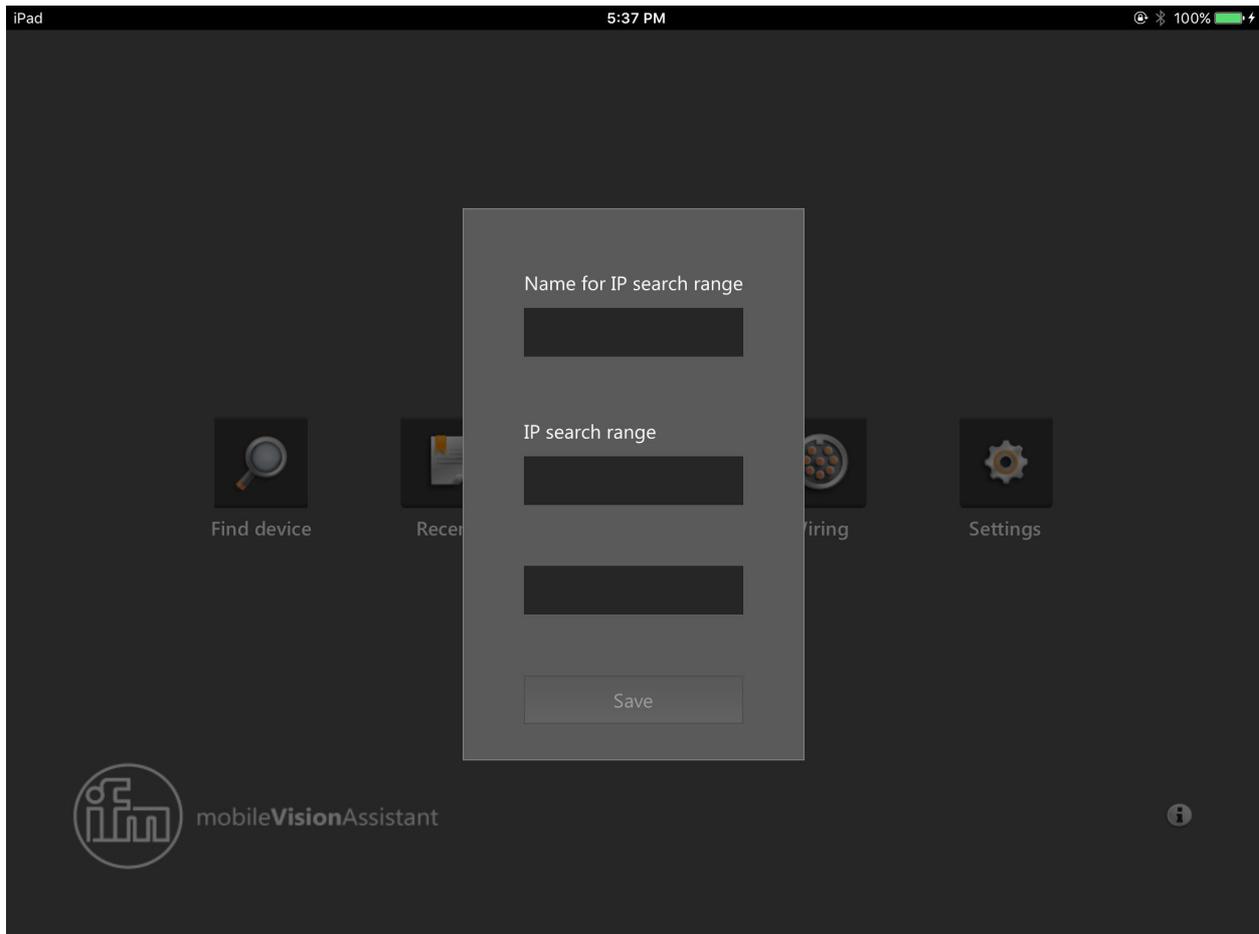


Figure 10: Set search range

The name of the search range is set in [Name for IP search range]; example: "Floor 1".

The search range is set with the fields [IP search range] by entering valid IP addresses.

Example:

- 1st field: "192.168.10.10"
- 2nd field: "192.168.10.20"

After pressing the button [Save] the search range is saved and added to the list in Figure 9.



The button [Save] is deactivated if no or invalid addresses are entered in the fields [IP search range].



The search length depends on the search range size.

The search can be interrupted by clicking on the darkened background.

A set search range can be edited and deleted in the bookmark view (Figure 11).

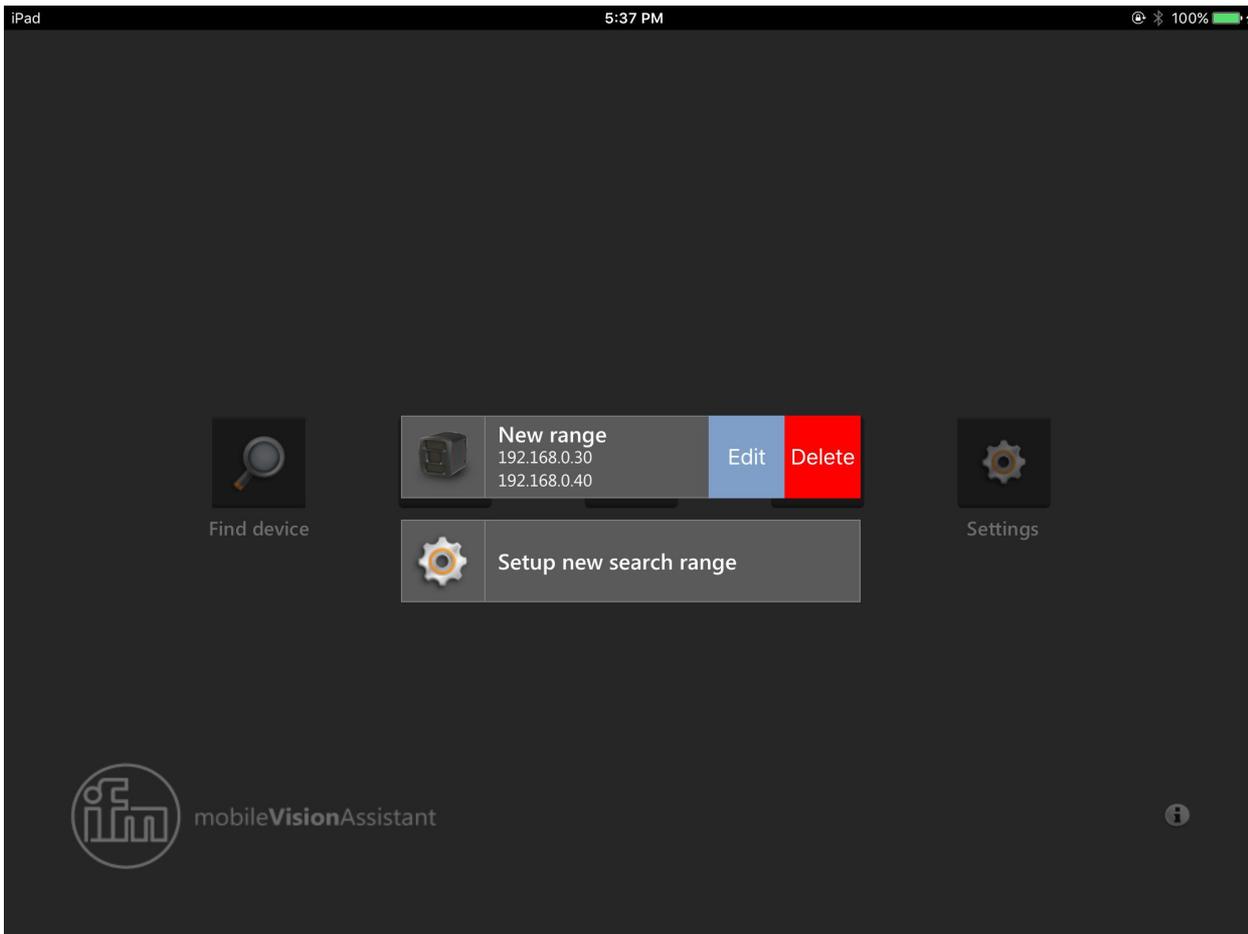


Figure 11: Edit or delete search range

By swiping to the left across the search range the buttons [Edit] or [Delete] appear.

After pressing the button [Delete] the search range is deleted.

After pressing the button [Edit] the search range can be edited (Figure 12).

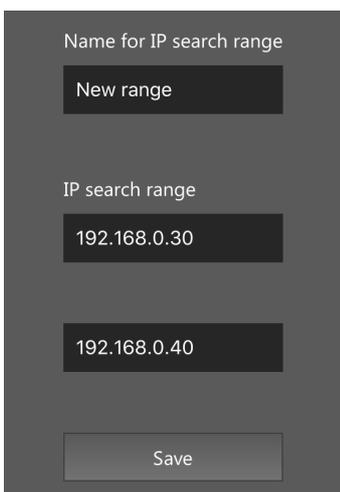


Figure 12: Edit search range

After pressing the button [Save] the changes are saved. The changed search range is shown in the bookmark view (Figure 9).

After pressing a bookmark devices are searched for in the set search range (Figure 13).

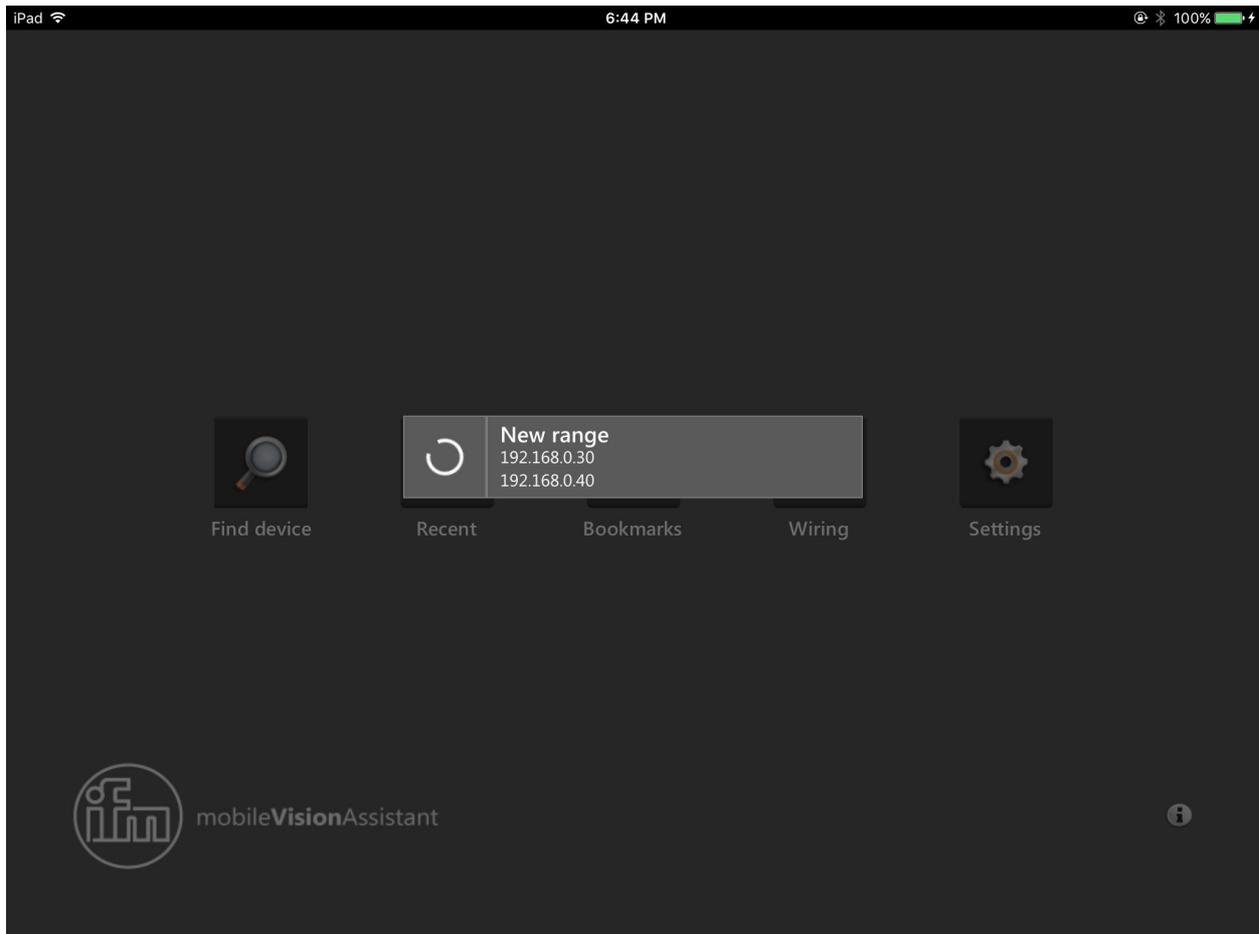


Figure 13: Search for devices in the search range



The search length depends on the search range size.

The search can be interrupted by clicking on the darkened background.

When the search is finished, the found devices are shown (Figure 14).

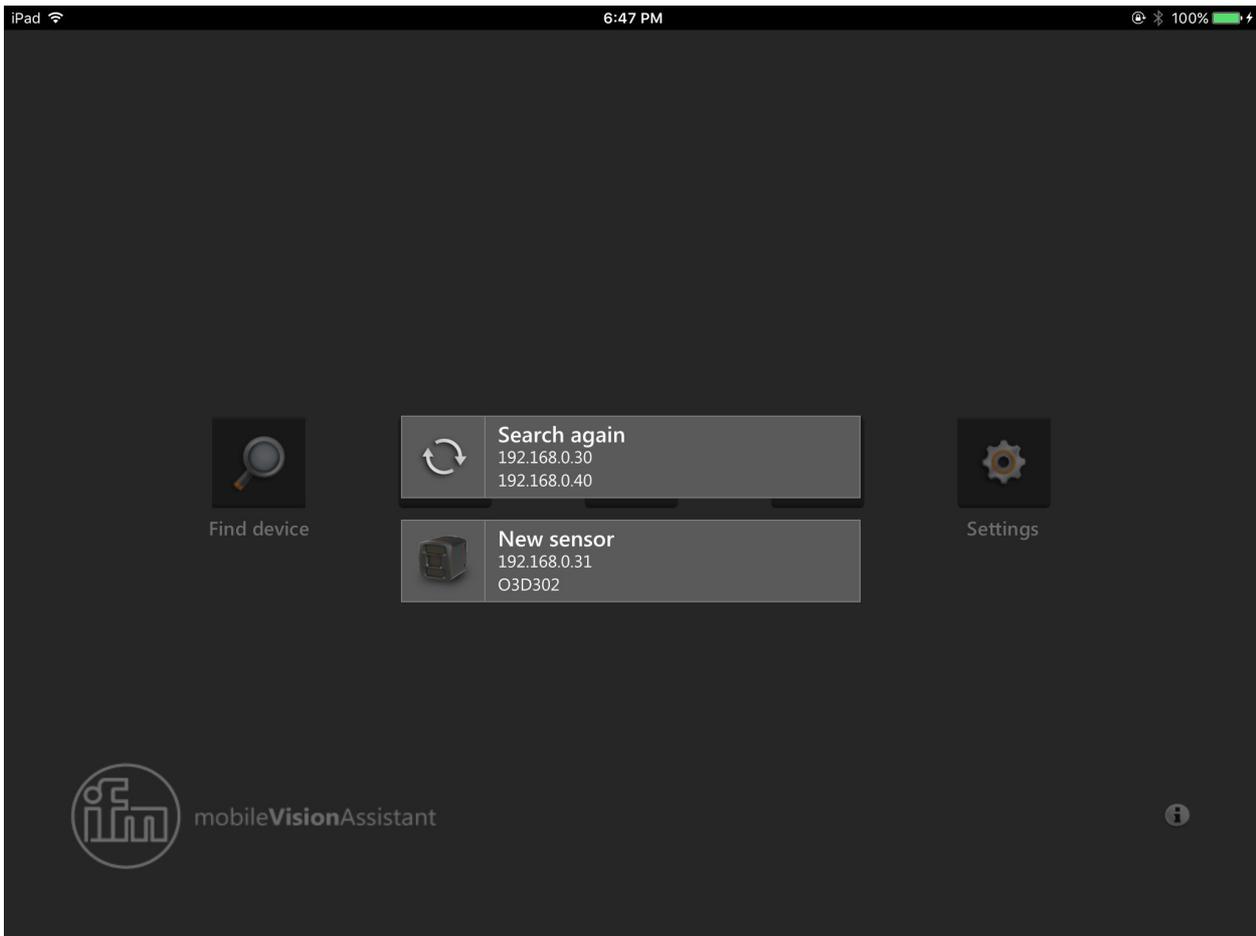


Figure 14: New sensors

Button	Name	Function
	Search again	Search again for devices in the search range.
	New sensor	Connect to the device found.

## 4.2.4 Wiring

The button  is a connection aid for the set-up of devices.

After pressing the button the wiring options of the devices are shown:

- 5-pole connector: O3D3xx camera
- 8-pole connector: O3D3xx sensor

Figure 9 shows the wiring of the O3D3xx camera (5-pole connector).

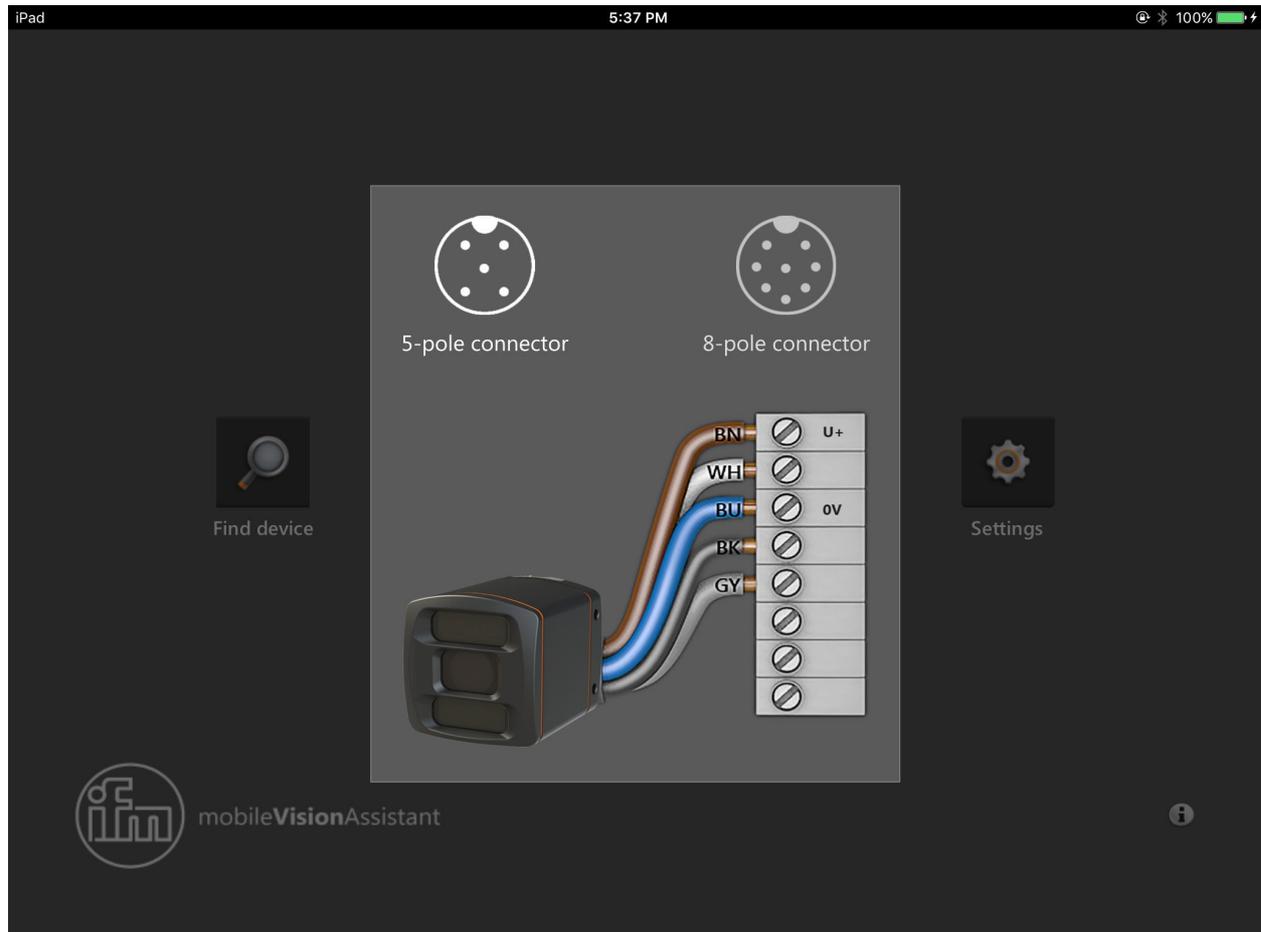


Figure 15: Wiring 5-pole connector

Figure 16 shows the wiring of the O3D3xx sensor (8-pole connector). The suitable wiring is displayed by selecting the connection cable via the article no.

The screenshot shows the ifm mobileVisionAssistant app interface. On the left, there is a table with four columns: '6 cores', '7 cores', '8 cores A', and '8 cores B'. The '8 cores A' column has the article number 'E11856' highlighted. To the right of the table, there is a diagram showing two connector types: a 5-pole connector and an 8-pole connector. Below the diagram, the text 'Cable article no.' is followed by a selection box containing '< E11856'. The wiring diagram shows an 8-pole connector with the following color-coded wires: WH (white), BN (brown), GN (green), YE (yellow), GY (grey), PK (pink), BU (blue), and RD (red). These wires are connected to terminals labeled U+, 0V, and other unlabeled terminals.

6 cores	7 cores	8 cores A	8 cores B
E10976	E20738	E12166	E11231
E10977	E20838	E12167	E11232
E10980		E12168	E11311
		E12169	E11807
		E12237	E11950
		E12238	E12260
		E11855	E12295
		E11856	E12296
		E80021	E12343
		E80022	E12344
			E12362
			E12400
			E12401
			E12402
			E12403
			E12404

Figure 16: Wiring 8-pole connector

## 4.2.5 Settings

The button  shows the language settings.

After pressing the button the default language is displayed (Figure 17).

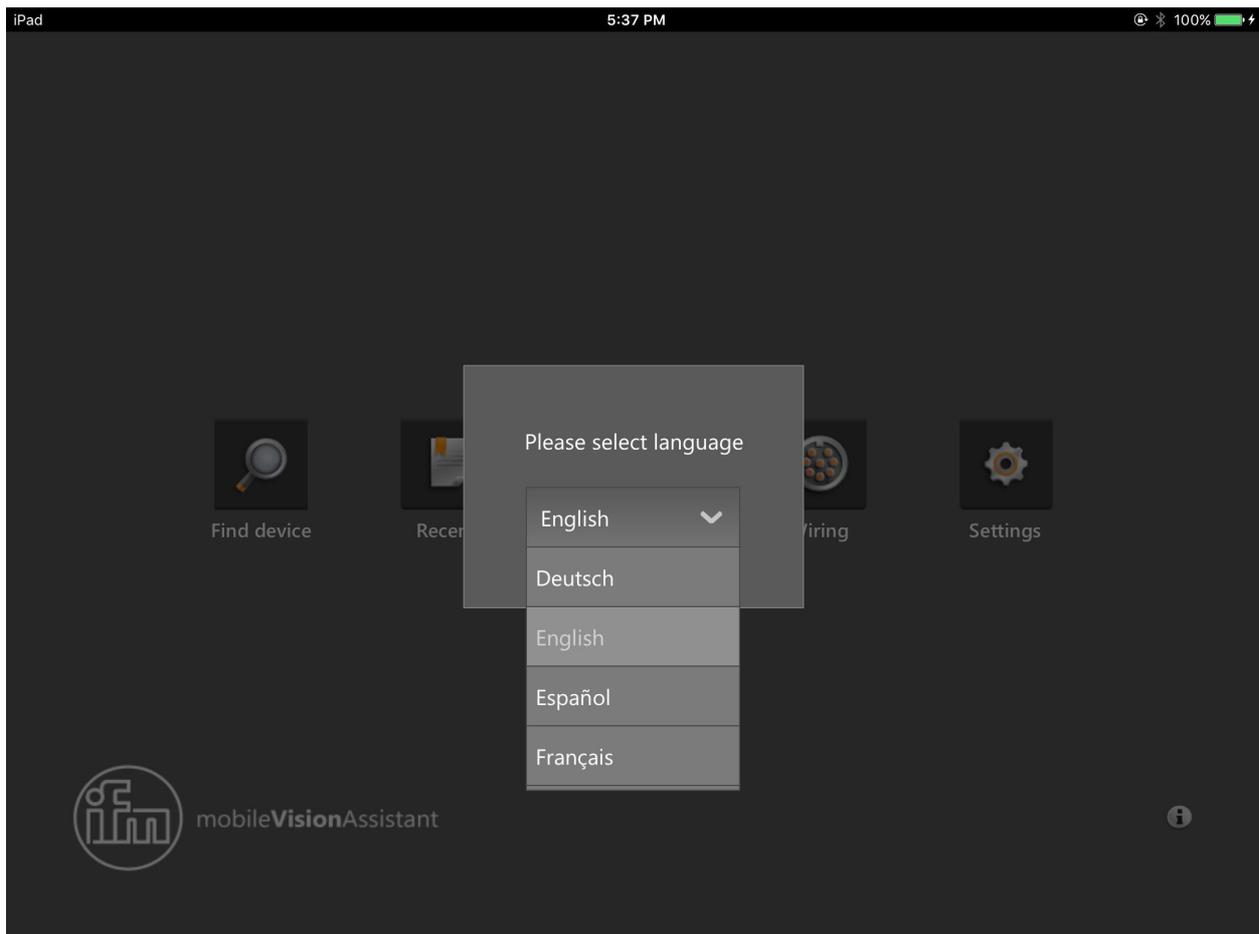


Figure 17: Settings

Via the drop-down menu the language can be changed.

### 4.2.6 Contact

The button  displays contact details of the ifm branches and the licence agreement.

After pressing the button the contact details of a country are shown (Figure 18).

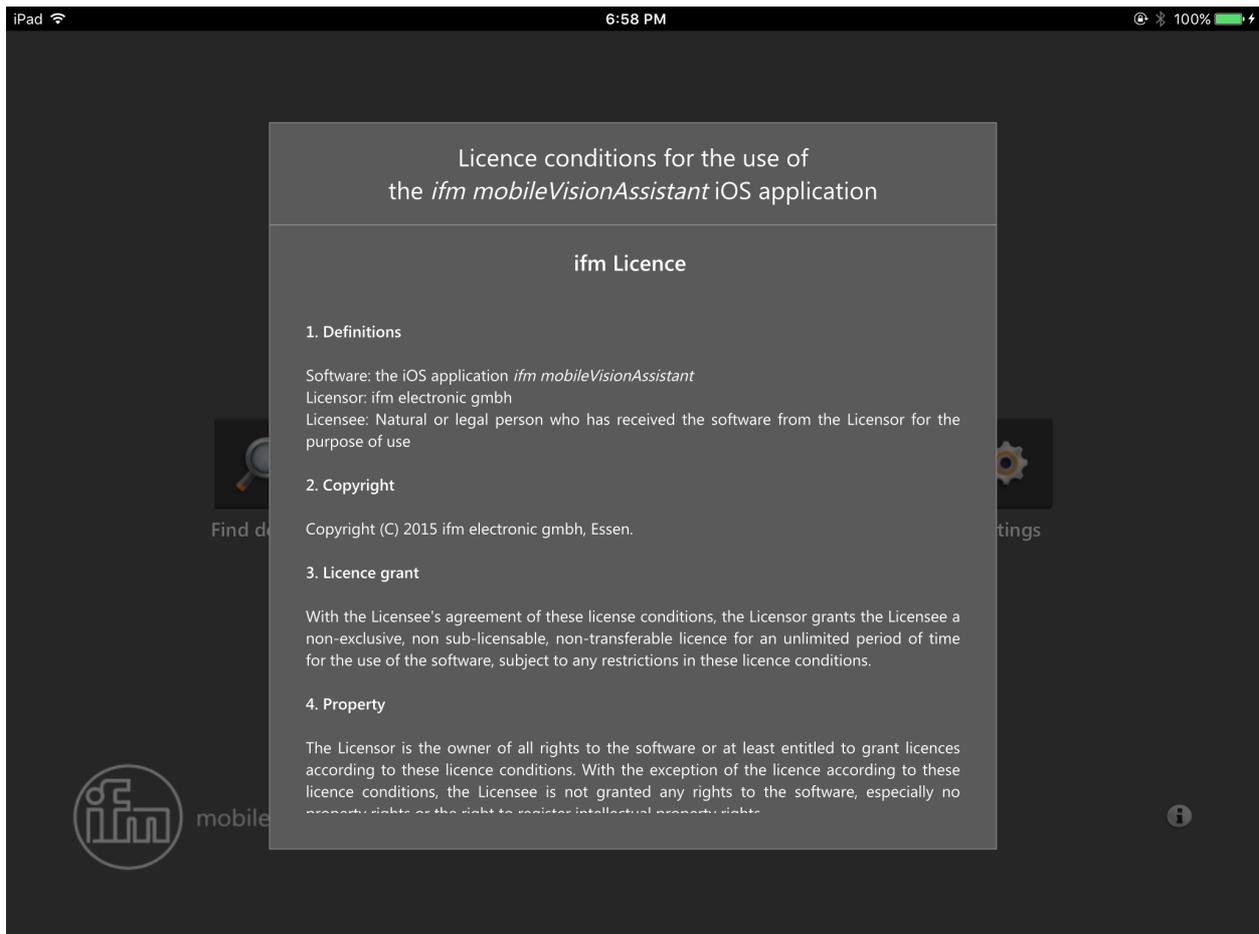


Figure 18: Contact

Via the drop-down menu the country can be changed.

After pressing the e-mail address an e-mail can be directly sent to the branch. After pressing the internet address the ifm website opens in the web browser.

After pressing the button [Licence Information] the licence agreement for ifm mobileVisionAssistant is displayed (Figure 19).



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Figure 19: License agreement



The complete license agreement is available in chapter (→ 7).

### 4.2.7 Information

The button  shows the network structure of the ifm mobileVisionAssistant with two devices. After pressing the button a figure is shown which represents the network connection of the ifm mobileVisionAssistant and the devices (Figure 20).

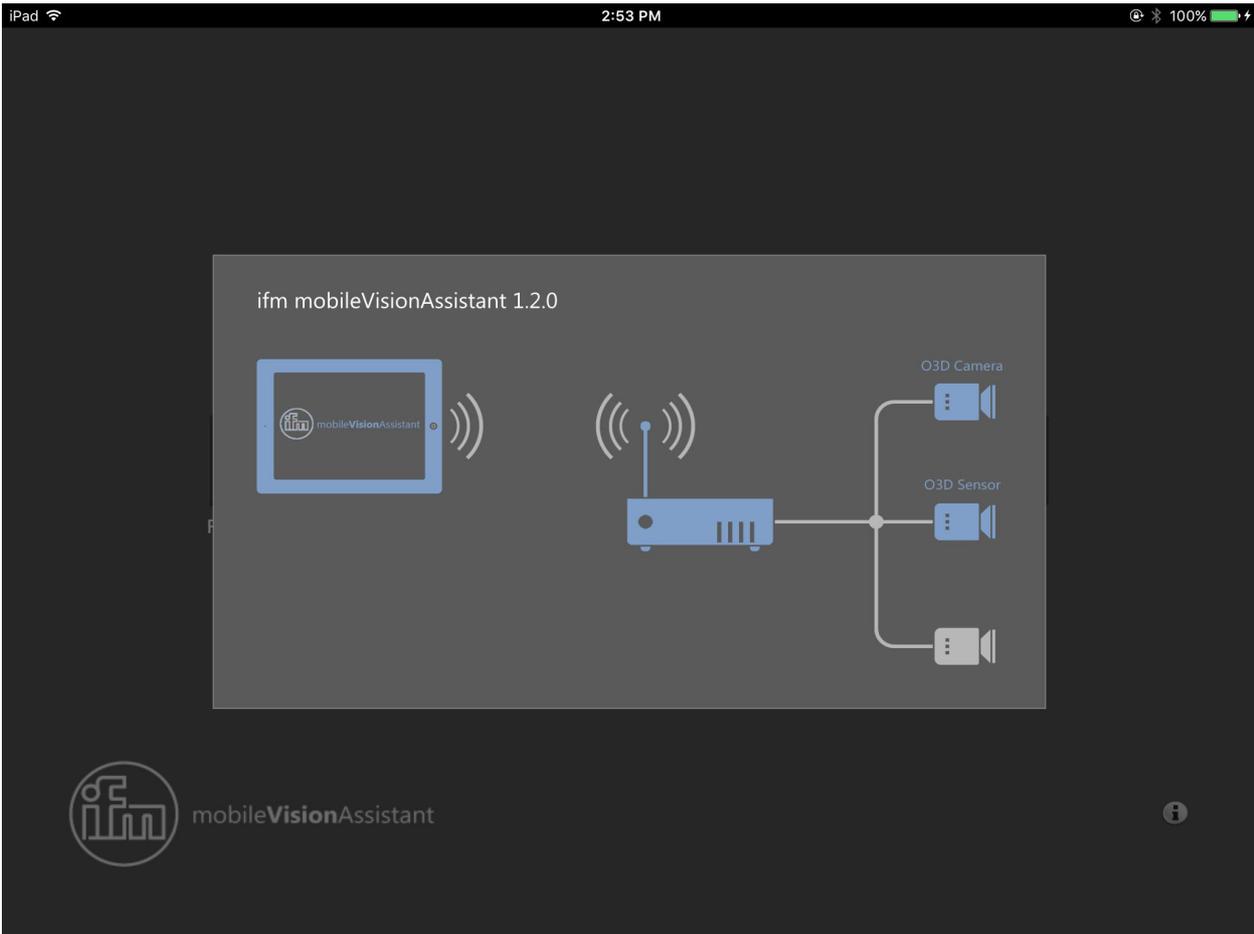


Figure 20: Information

Figure

- Left: ifm mobileVisionAssistant
- Centre: Wi-Fi router
- Right: devices of the product family O3D3xx

The iPad with the ifm mobileVisionAssistant is wirelessly connected to the Wi-Fi router. The devices are connected to the Wi-Fi router via the network cable.



In the figure some elements are blue. These elements contain help text which can be opened by pressing. Some of the help texts contain links to more detailed documentation.

### 4.3 Monitoring screen

After connection of the ifm mobileVisionAssistant to a device the monitoring screen is displayed (Figure 21). The monitoring screen displays the distance between the device and the object by means of colours. Each distance value is assigned a certain colour.



Figure 21: Monitoring screen of a sensor

The connected device monitors a certain area. The monitoring screen shows the distance and the amplitude of the monitored area. Parts of the area can be zoomed in or out. The zoomed-in area can be shifted.

The monitoring screen of an O3D3xx sensor can also display ROIs (Region of Interest) depending on the active application (→ 4.3.2).

**!** The monitoring screen requires the activated live image mode. The live image mode must be activated once with the PC software ifm Vision Assistant (→ 5.6).

### 4.3.1 Monitoring a camera

The monitoring screen of an O3D3xx camera displays the following information:

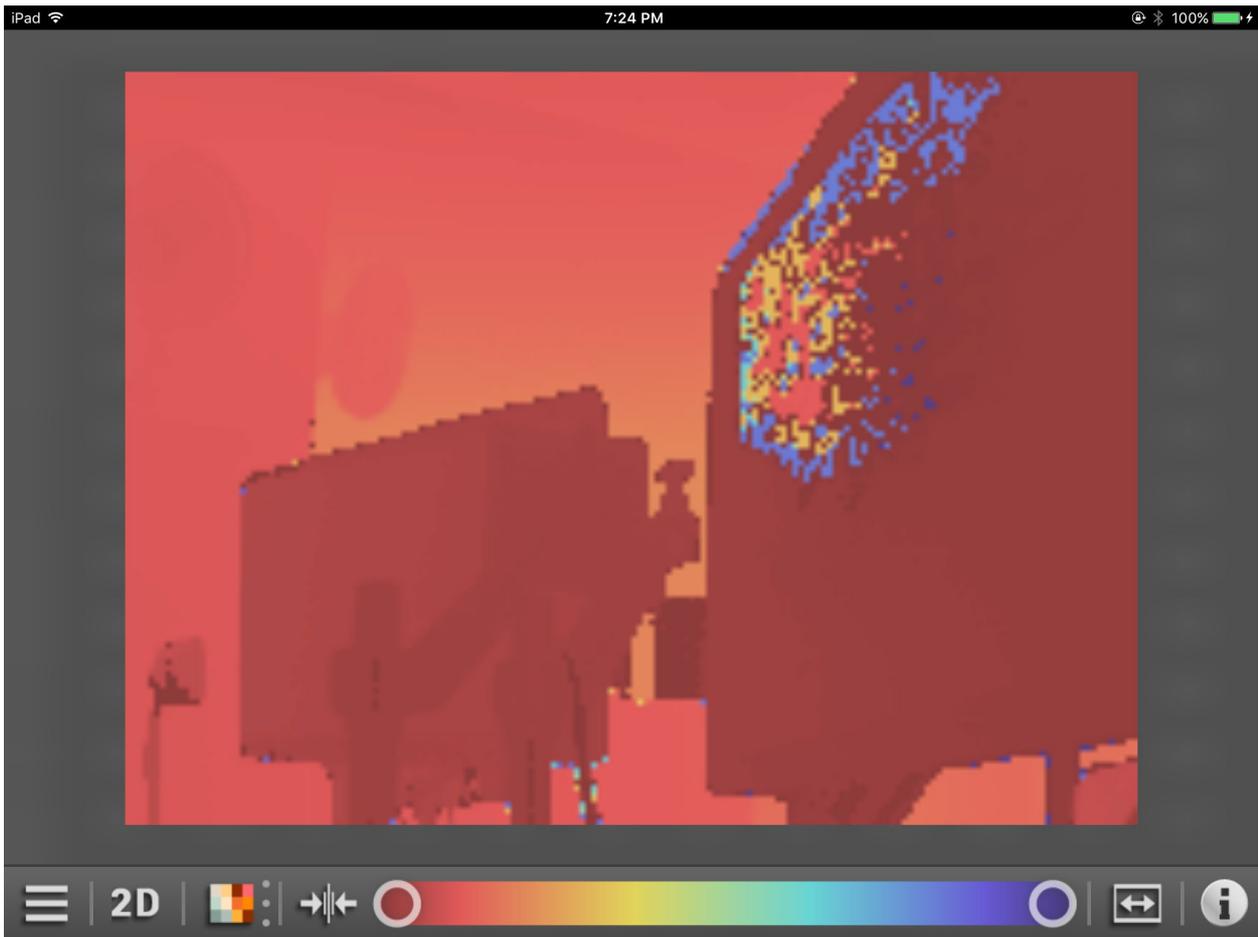


Figure 22: Monitoring screen of a camera

### 4.3.2 Monitoring a sensor

The monitoring screen of an O3D3xx sensor displays the following information:



Figure 23: Monitoring screen of a sensor

The monitoring screen of an O3D3xx sensor displays additional features, depending on the active application. The ROIs (Region of Interest) are the additional feature in the current version of the ifm mobileVisionAssistant.

 ROIs can only be created using the PC software ifm Vision Assistant.

 With the ifm mobileVisionAssistant applications can be selected and activated (→ 4.4.2). Applications can only be created using the PC software ifm Vision Assistant.

### 4.3.3 Functions of the monitoring screen

Button	Name	Function
	Menu icon	Display of the device information and service report. With another button the device can be disconnected (→ 4.4).
	2D view	The monitoring screen visualises the device data in 2D.
	3D view	The monitoring screen visualises the device data in 3D. The 3D view can display the device data in different views (→ 4.3.5).
	Points	Visualises the device data as point cloud. The function is only available in the 3D view.
	Surface model	Shows the ascending slopes in the device data as colour gradient. The function is only available in the 3D view.
	Grid	Visualises the device data as a grid. The function is only available in the 3D view.
	Distance view	Display of the device data according to the distance values. The device data can be visualised via the distance or amplitude values (→ 4.3.4).
	Amplitude view	Display of the device data according to the amplitude values. The device data can be displayed via the distance or amplitude values. In the amplitude image you can also select linear or logarithmic scaling (→ 4.3.4).
	Linear view	Linear scaling of the amplitude values (→ 4.3.4). The function is only available in the amplitude view.
	Logarithmic view	Logarithmic scaling of the amplitude values. Logarithmic scaling increases the dynamic range (→ 4.3.4). The function is only available in the amplitude view.
	Rescaling	Rescaling of the display values.
	Slider bar	Setting of the area to be displayed. Selects how much of the monitored area is to be displayed.
	Zoom 1:1	Setting of the zoom level to the default value.
	Colour legend	Shows the colour legend of the ROI and special pixels when a sensor is connected (→ 4.3.6). Shows the colour legend of special pixels when a camera is connected (→ 4.3.6).

### 4.3.4 Distance and amplitude view



Figure 24: Amplitude view and linear/logarithmic view

The pixels can be displayed via the distance or amplitude values.

In the distance view the colour shade depends on the measured distance of the pixels and the setting of the colour scale.

In the amplitude view the brightness depends on the measured amplitude and the setting of the grey scale. In the amplitude view you can also select between linear or logarithmic scaling. Logarithmic scaling increases the dynamic range.



The distance and amplitude view only changes the calculation and the type of visualisation. The active application is not affected.

### 4.3.5 3D view

The 3D view displays the device data in three-dimensional spatial depth.

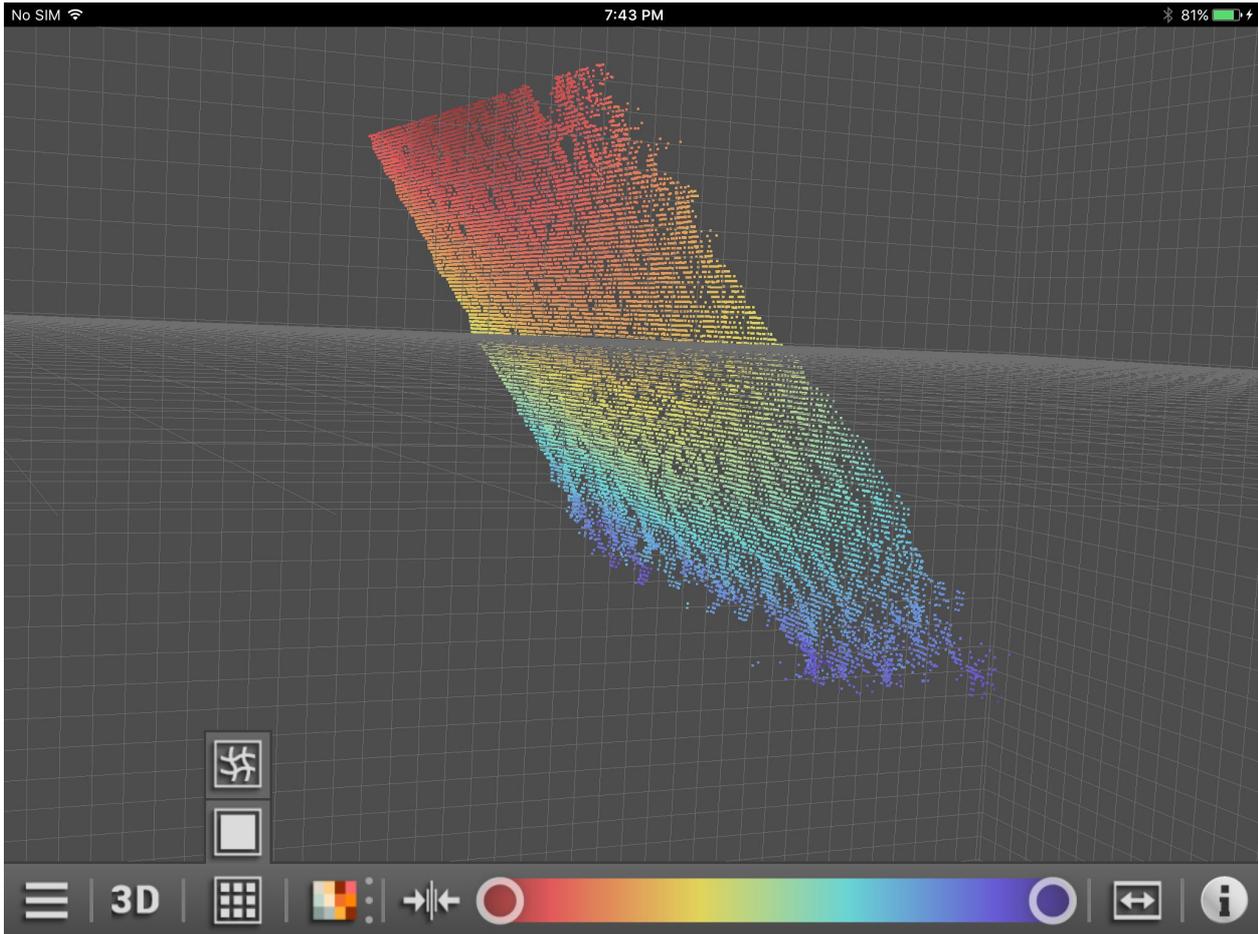


Figure 25: 3D view as point cloud

There are three different ways of visualising the device data in the 3D view:

Button	Name	Function
	Points	Visualises the device data as point cloud (Figure 25).
	Surface model	Visualises the device data as surface model (Figure 26).
	Grid	Visualises the device data as grid (Figure 27).

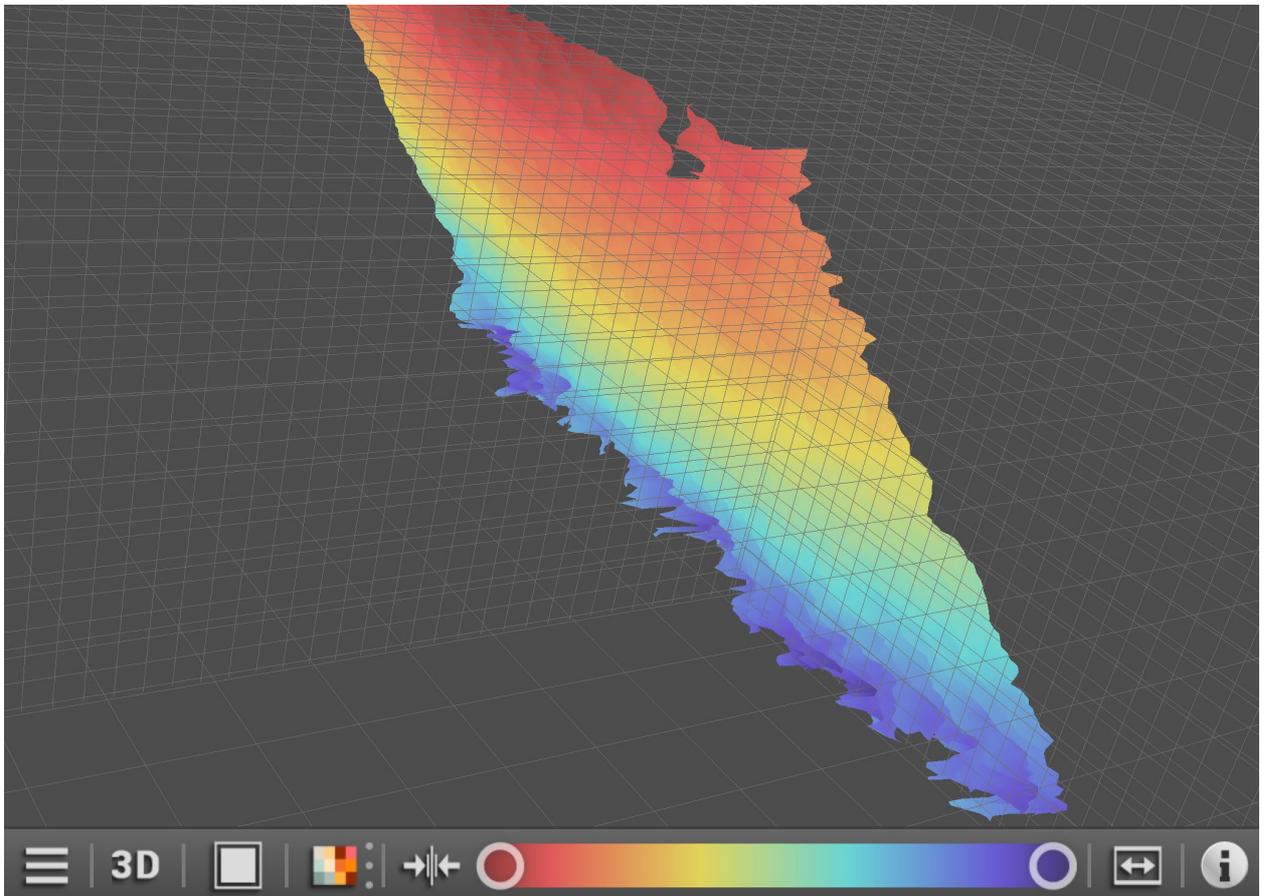


Figure 26: 3D view as surface model

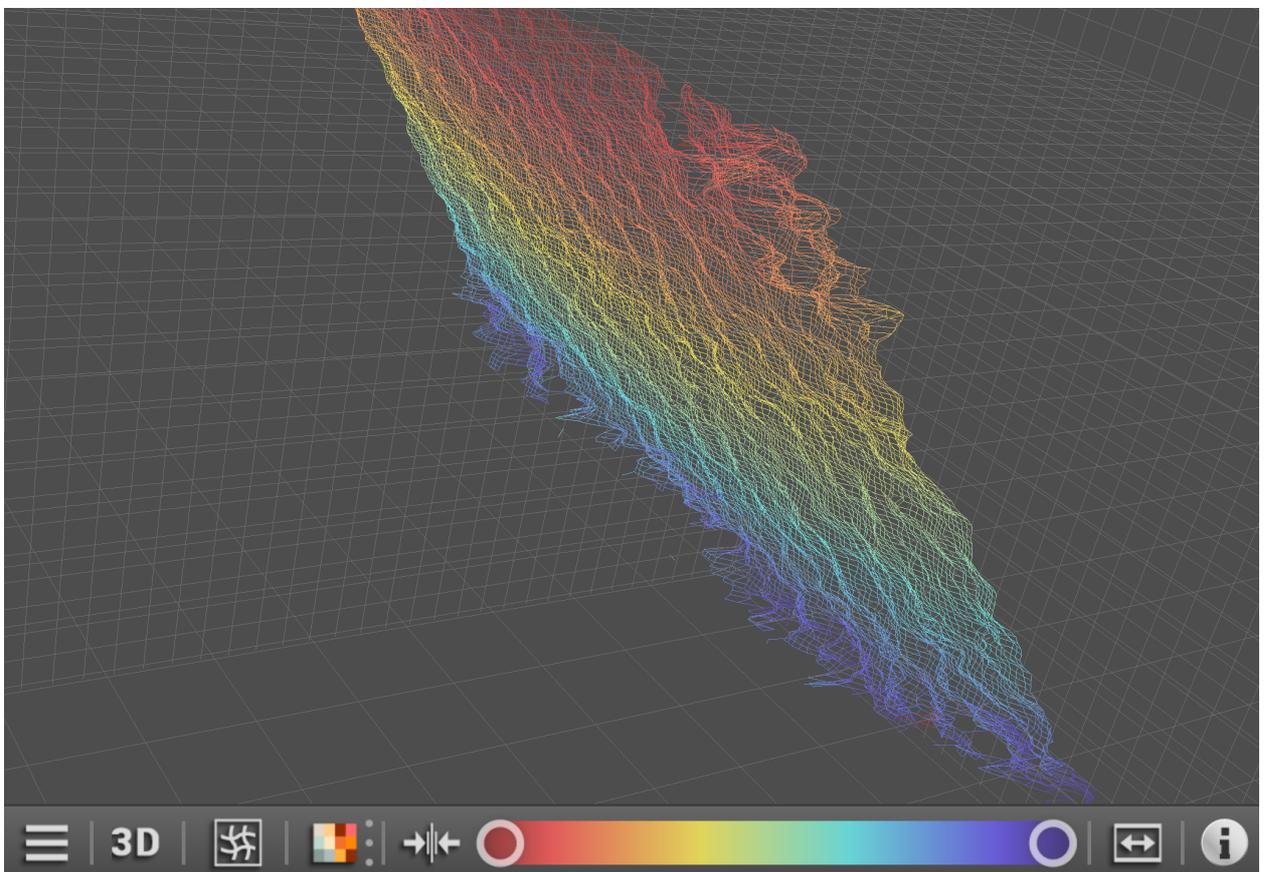


Figure 27: 3D view as grid

### 4.3.6 Colour legend

The button  shows the colours used for

- ROIs of active applications (only if a sensor is connected),
- special pixels.

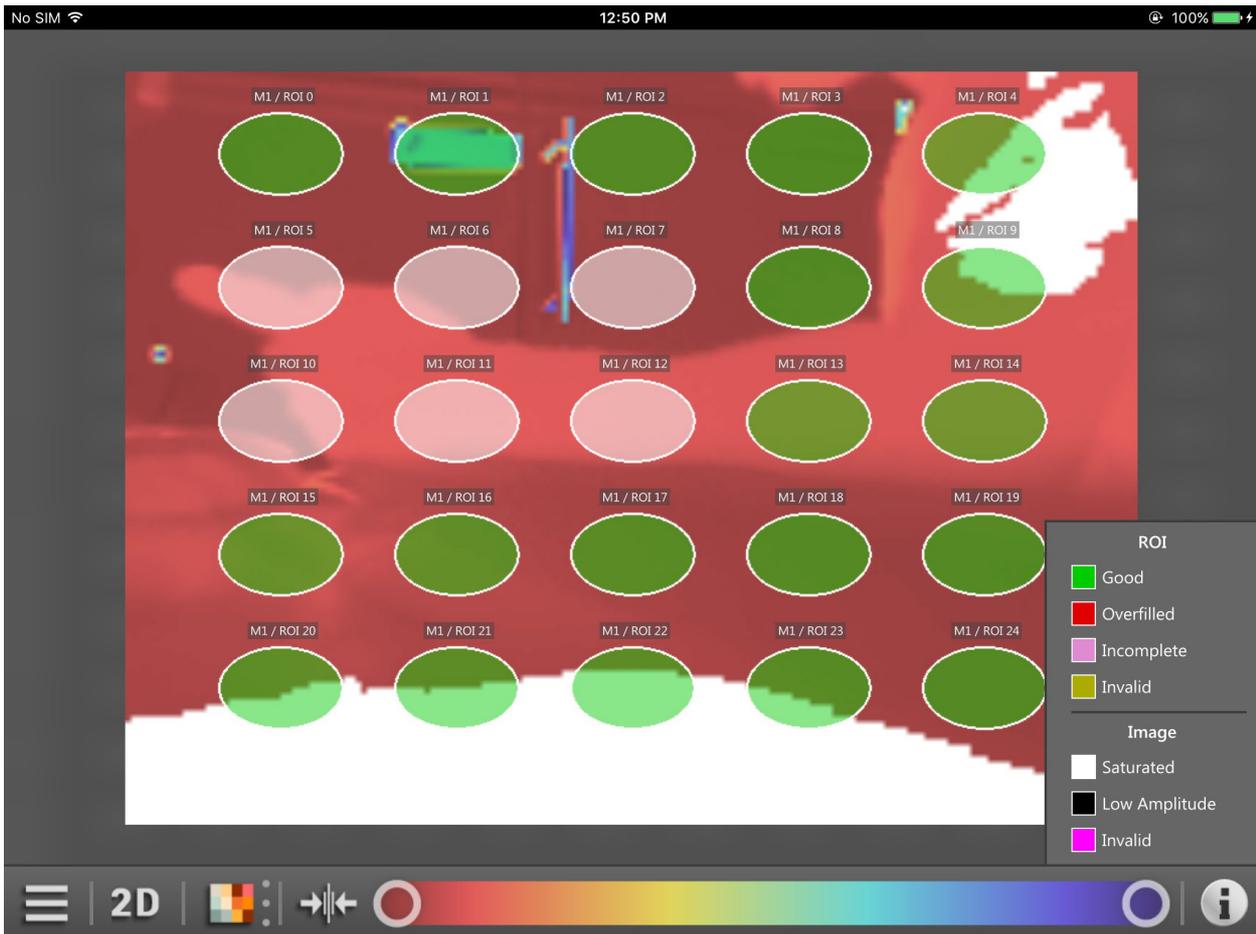


Figure 28: Colour legend

The colour legend of the ROIs shows the status of the ROIs and depends on the active application of the device.

Colour	Name	Function
 "Green"	Good	Passed: ROI is in the normal range.
 "Red"	Overfilled	Overfilled: ROI is above the threshold.
 "Magenta"	Incomplete	Incomplete or underfilled: ROI is below the threshold.
 "Yellow"	Invalid	Invalid or error: ROI is in the invalid range.



The colour legend of the ROIs is only displayed if a sensor is connected.

The colour legend of the special pixels indicates the status of some special pixels:

Colour	Name	Function
 "White"	Saturated	Overexposed, the pixels are saturated
 "Black"	Low Amplitude	Underexposed, the amplitude is too low
 "Violet"	Invalid	Invalid pixels

### 4.3.7 Password protection

With the PC software ifm Vision Assistant the devices can be protected against tampering with a password. The window in Figure 29 appears if one of the following applies:

- if a device with password protection is connected to the ifm mobileVisionAssistant and the "applications" are open (→ 4.4.2),
- if a device without password protection is connected to the ifm mobileVisionAssistant and a password is set after connection to the PC software Vision Assistant,
- if a device with password protection is connected to the ifm mobileVisionAssistant.

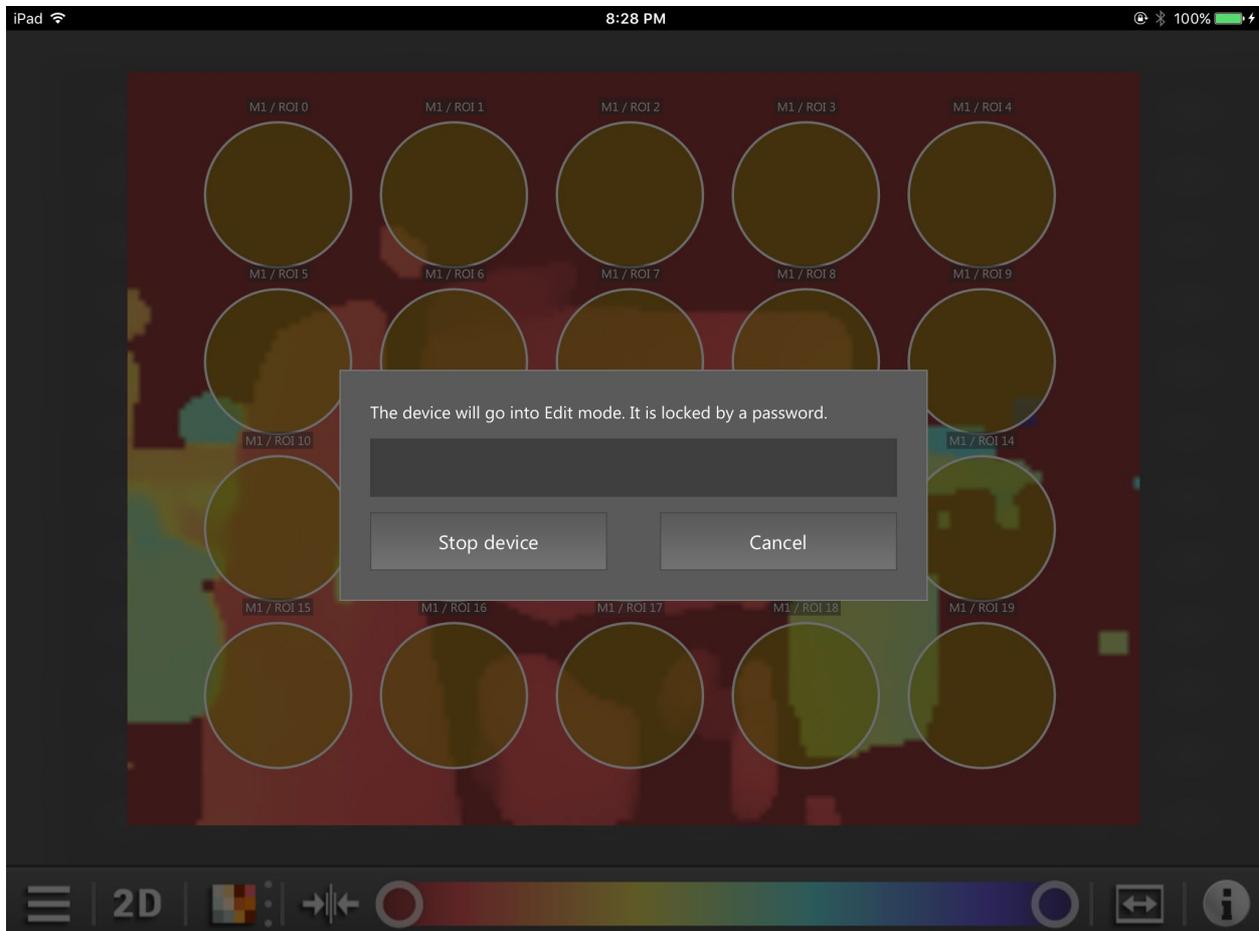


Figure 29: Password protection

With active password protection access to the applications is locked and can only be accessed when the password is entered (→ 4.4.2).

When the password has been entered, the device is stopped and the ifm mobileVisionAssistant goes into the edit mode (→ 5.2).

### 4.4 Menu button

The button  displays a menu with more device functions.

At the bottom left of the monitoring screen is a menu button. More functions of the connected device can be reached via the menu button.

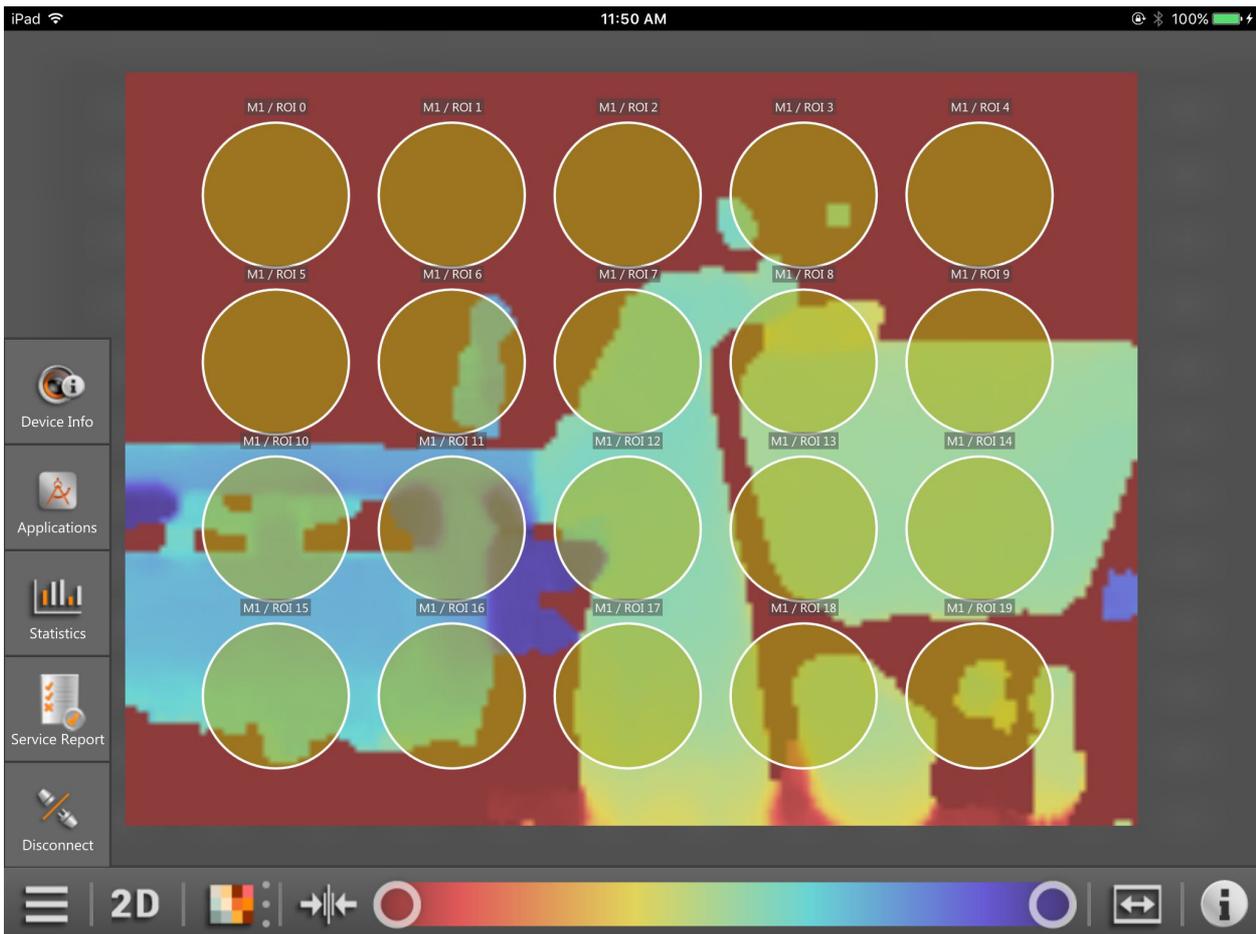


Figure 30: Open menu button

#### Functions of the menu symbol

Button	Name	Function
	Menu button	Display of more functions of the monitoring screen Close the menu by pressing the menu symbol again or press outside the menu.
	Device Info	Display of the device information The device information contains the current status of the connected device (→ 4.4.1).
	Applications	Display of the applications The applications are saved on the device and can be activated with the ifm mobileVisionAssistant (→ 4.4.2).
	Statistics	Display of the statistics The statistics on the active application are shown (→ 4.4.3).
	Service Report	Display of the service report The service report shows the results of the active application (→ 4.4.4).
	Disconnect	Disconnection of the device (→ 4.4.5)

#### 4.4.1 Device Information

The button  shows the device status.

After pressing the button the current status of the connected device is displayed (Figure 31).

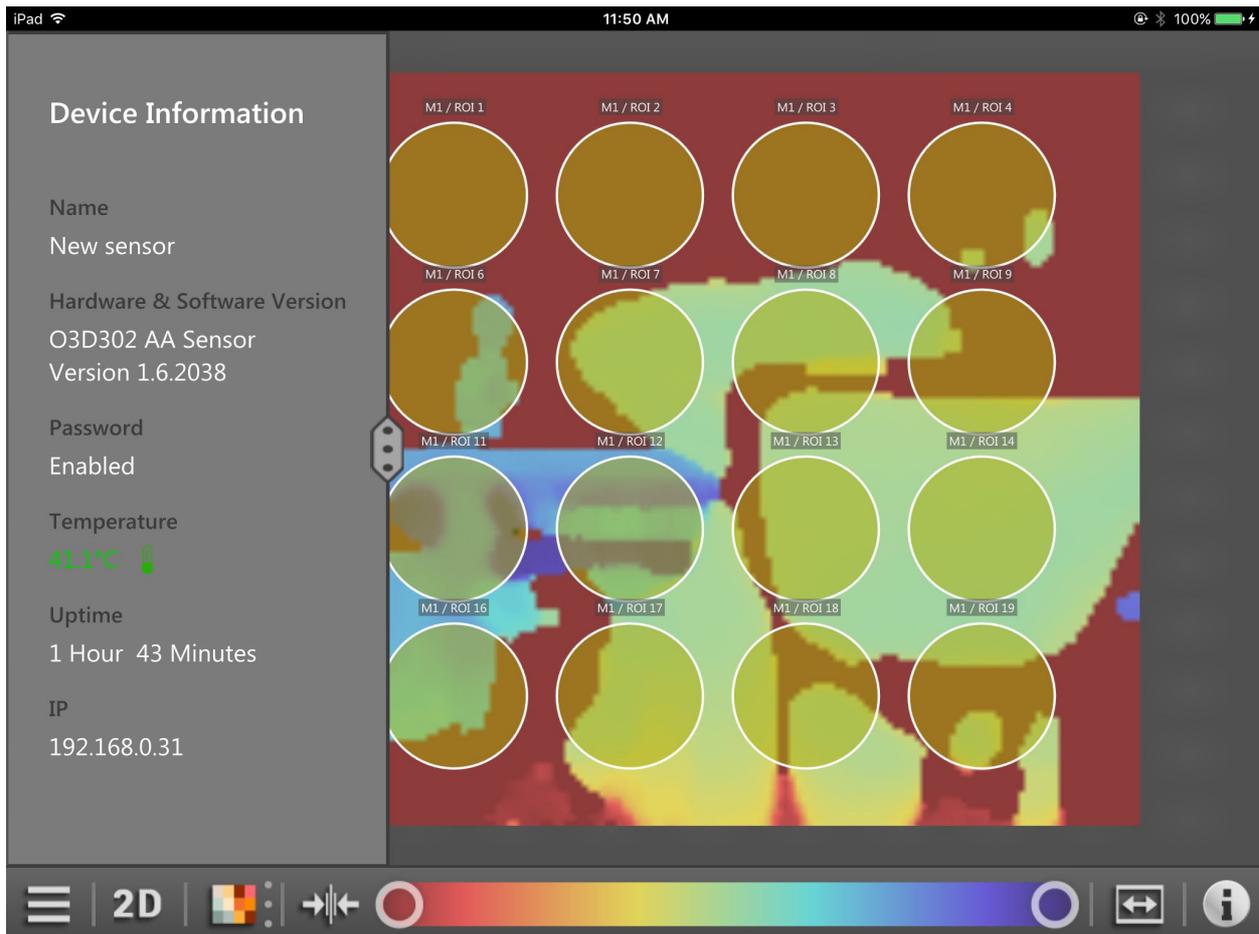


Figure 31: Device information

The device information provides the following details:

- Name
- Hardware and software versions
- Password status
- Temperature
- Total uptime
- IP address



The temperature is displayed in colour:

- green: normal range
- red: temperature too high (> 80 °C)

By pressing and moving the button  to the right, the extended view of the device information is shown.



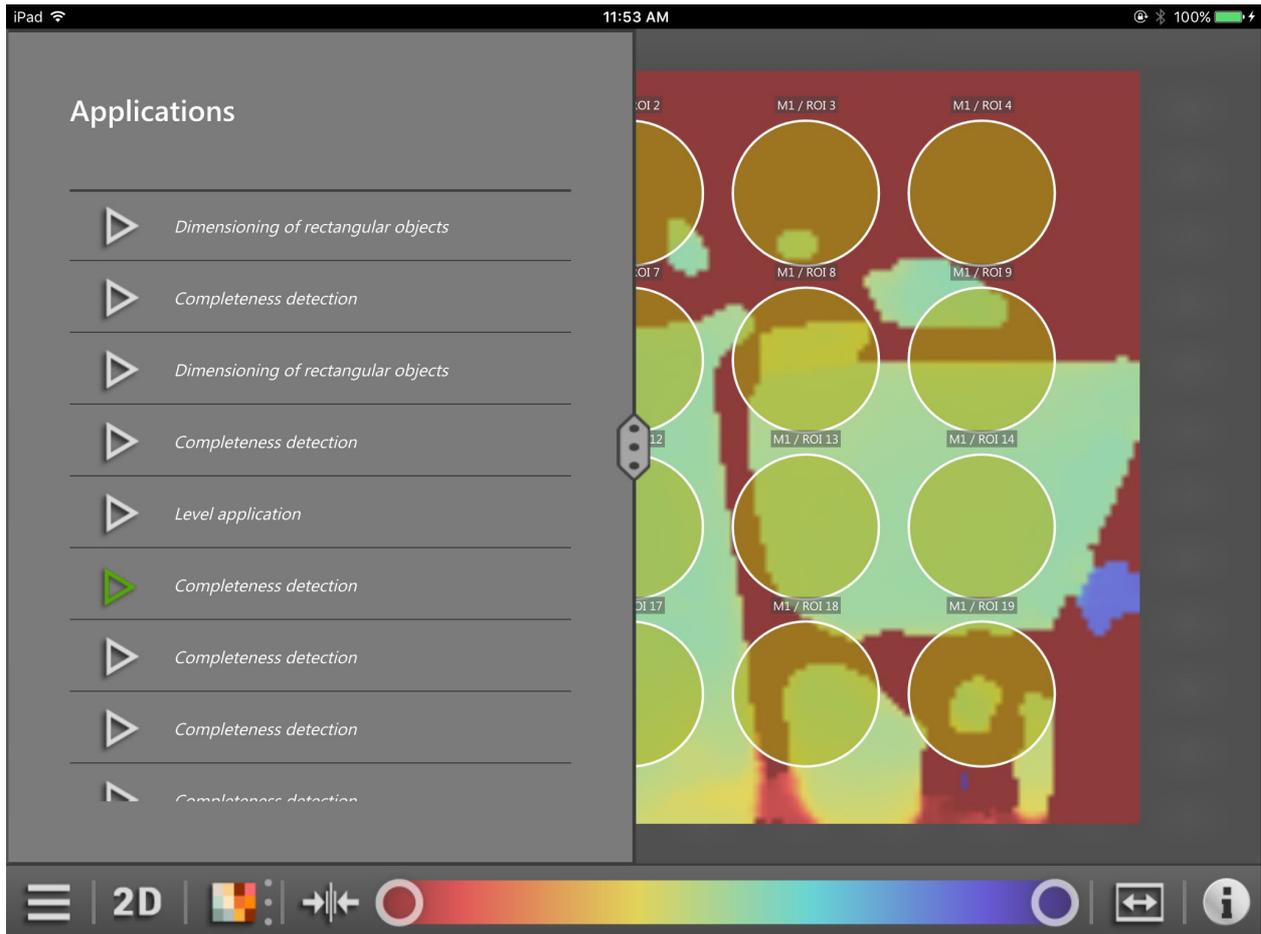
Figure 32: Additional device information

Section	Function
Hardware Information	Display of information about the hardware of the connected device. This section contains information such as MAC address, connector etc.
Software Information	Display of information about the software of the connected device. This section contains information such as firmware version, Linux version etc.
Send to support	By pressing the button [Send to support] a new email for the support is created. The device information is attached to the email. Text can be added.  The email must be sent by the user manually.

### 4.4.2 Applications

The button  shows the applications saved on the device.

After pressing the button the applications saved on the device are shown (Figure 33).



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Figure 33: Applications on the device

The applications are saved on the device. By pressing one application this application is activated. A previously active application is deactivated.

Button	Name	Function
	Application deactivated	The application is saved on the device and deactivated.
	Application activated	The application is saved on the device and activated.

 The applications can be activated with the ifm mobileVisionAssistant if the setting "Application switching via inputs" is set as below:

- deactivated
- static

The setting is changed with the PC software ifm Vision Assistant. How to change the setting is described in the software manual of the device, chapter "Device setup" / "Interfaces".

If the applications are activated via an external trigger, the symbol preceding the application name changes (Figure 34).

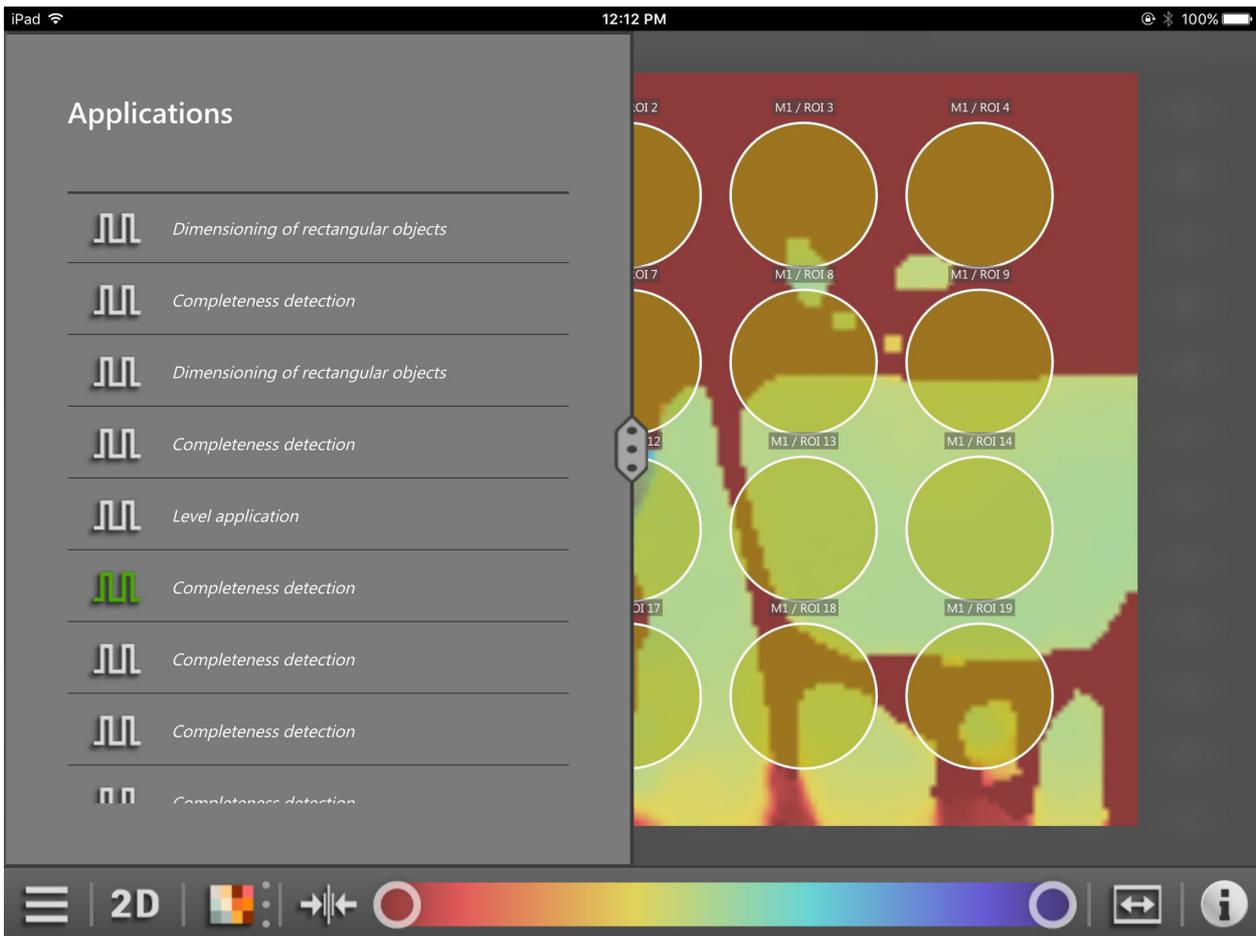


Figure 34: External activation of the applications

Button	Name	Function
	Application deactivated	The application is saved on the device and deactivated.
	Application activated	The application is saved on the device and activated.

The applications cannot be activated with the ifm mobileVisionAssistant if the setting "Application switching via inputs" is set as below:

- pulsed
- pulsed via trigger
- static via input 1

The setting is changed with the PC software ifm Vision Assistant. How to change the setting is described in the software manual of the device, chapter "Device configuration" / "Interfaces".

### 4.4.3 Statistics

The button  show the statistics on the active application.

After pressing the button the current status of the connected device is displayed (Figure 35).

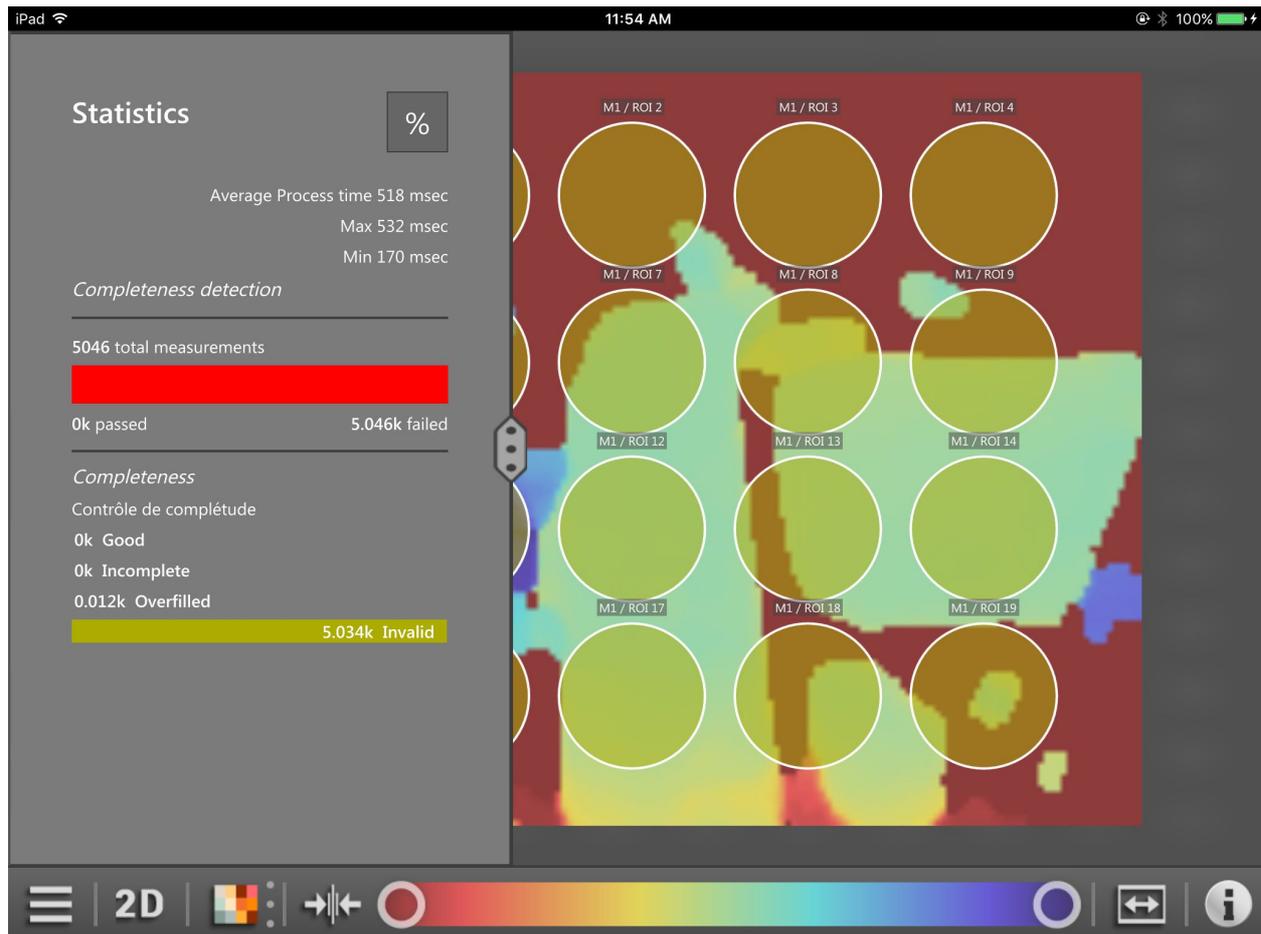


Figure 35: Statistics

The statistics show the total statistics of the active application. In addition statistics of individual models are shown in the application.

The button  activates the view of the statistics in percent.

### 4.4.4 Service Report

The button  shows the results of the active application.

After pressing the button [Service Report] the results of the active application is displayed in chronological order (Figure 36).

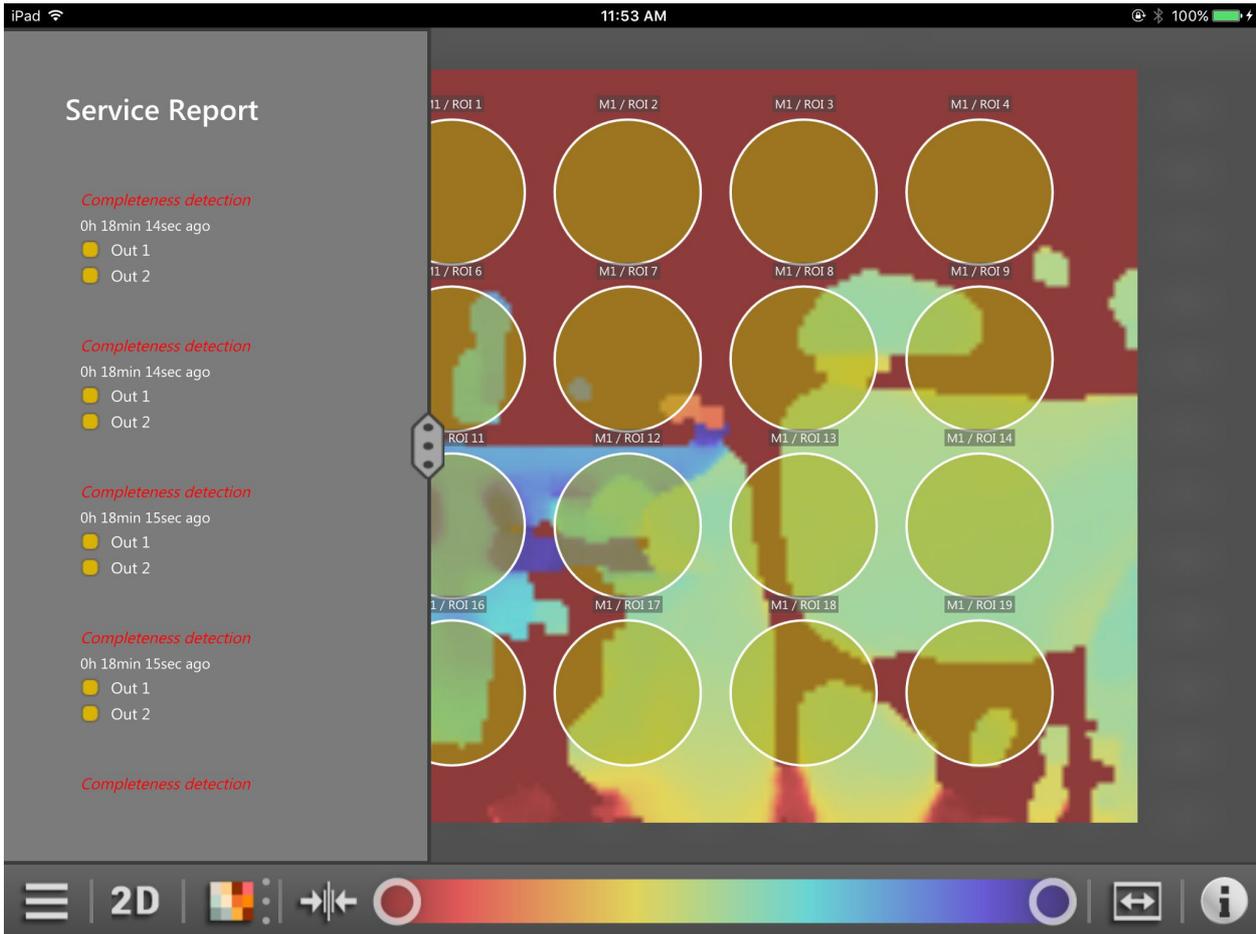


Figure 36: Service report of the application "Completeness detection"

The application "Completeness detection" differentiates two results: complete and incomplete. The results are marked in red and green in the service report. In Figure 36 the 5 results are incomplete.

In the results you can scroll up and down.

By pressing and moving the button  to the centre of the screen the service report view is extended (Figure 37).

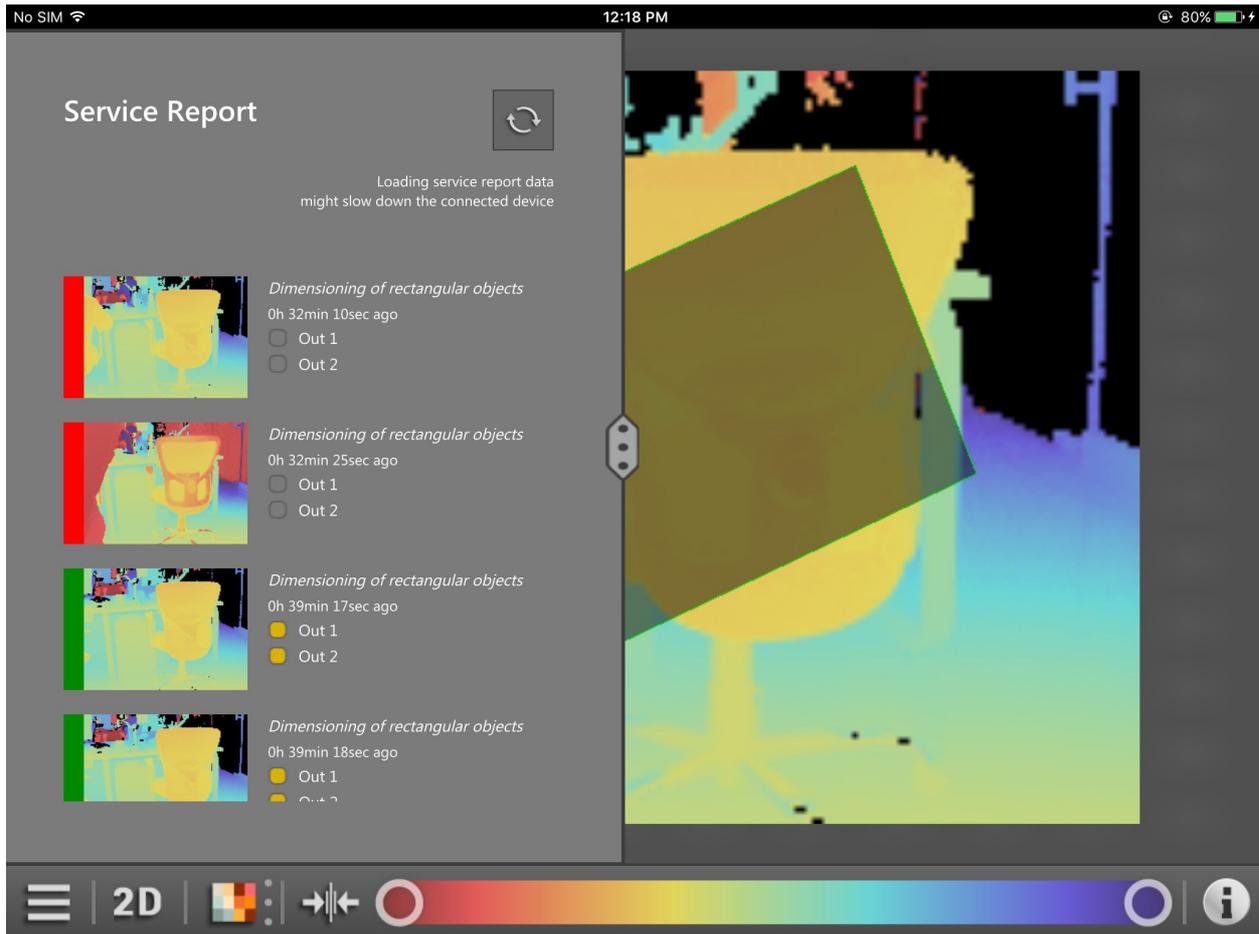


Figure 37: Extended view of the service report

The extended view shows the results and the [monitoring screens]. The results are marked in red and green on the left of the [monitoring screens].

In the extended view you can scroll up and down.

The button  refreshes the results in the extended view.

By pressing and moving the button  to the right edge of the screen the service report view is extended (Figure 38).



Figure 38: Extended view of the service report

The extended view shows the results and the [monitoring screens] in two columns. The results are marked in red and green on the left to the [monitoring screens].

In the extended view you can scroll up and down.

The button  refreshes the results in the extended view.

By pressing one of the [monitoring screens] an enlarged view of the monitoring screen is shown (Figure 39).

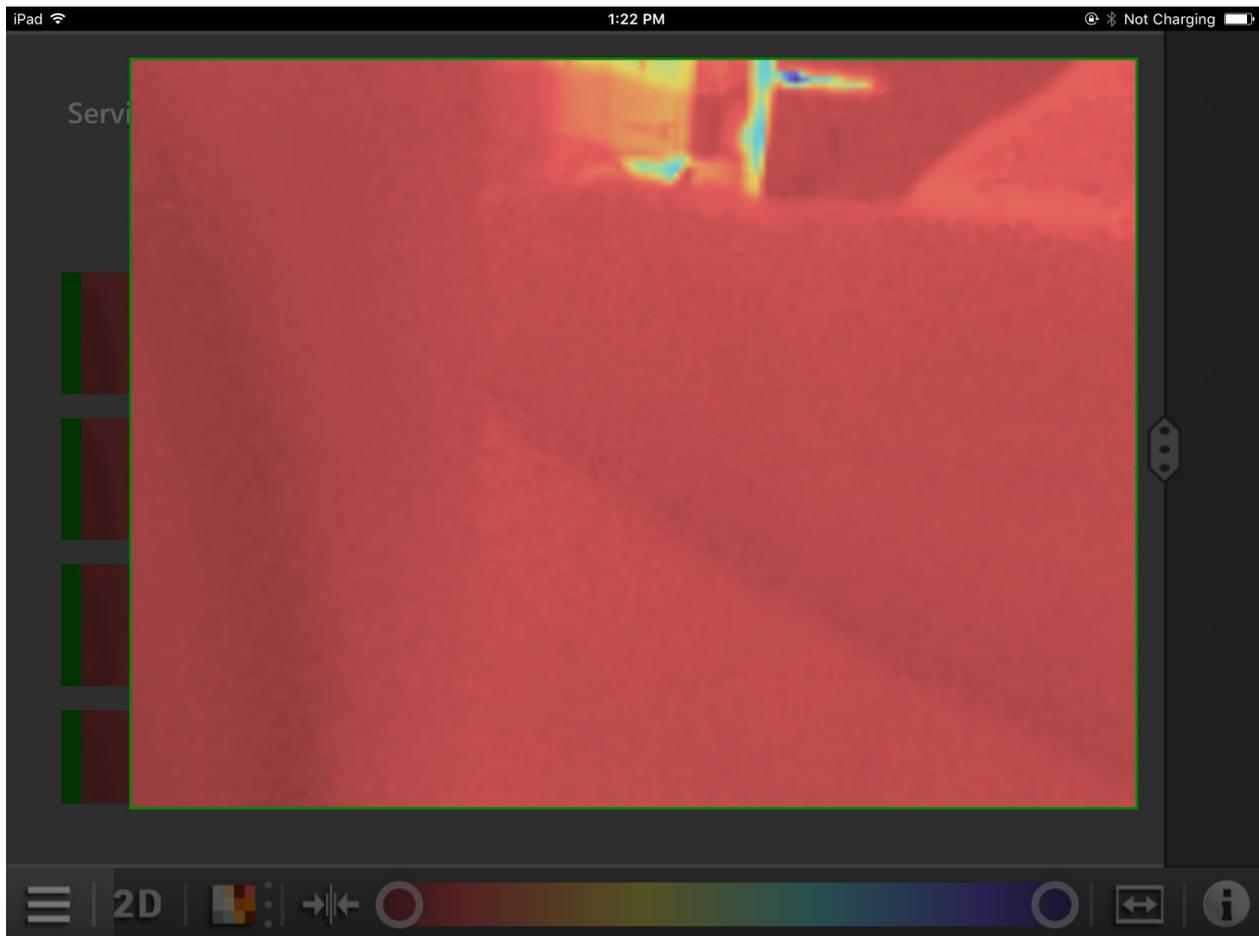


Figure 39: Enlarged view of a monitoring screen

#### 4.4.5 Disconnect

The button  disconnects the device.

After disconnection the view changes to the start screen (→ 4.2).

## 5 Error diagnostics

### 5.1 Solve connection problems

If ifm mobileVisionAssistant does not connect to the device, the error message in Figure 40 is displayed.

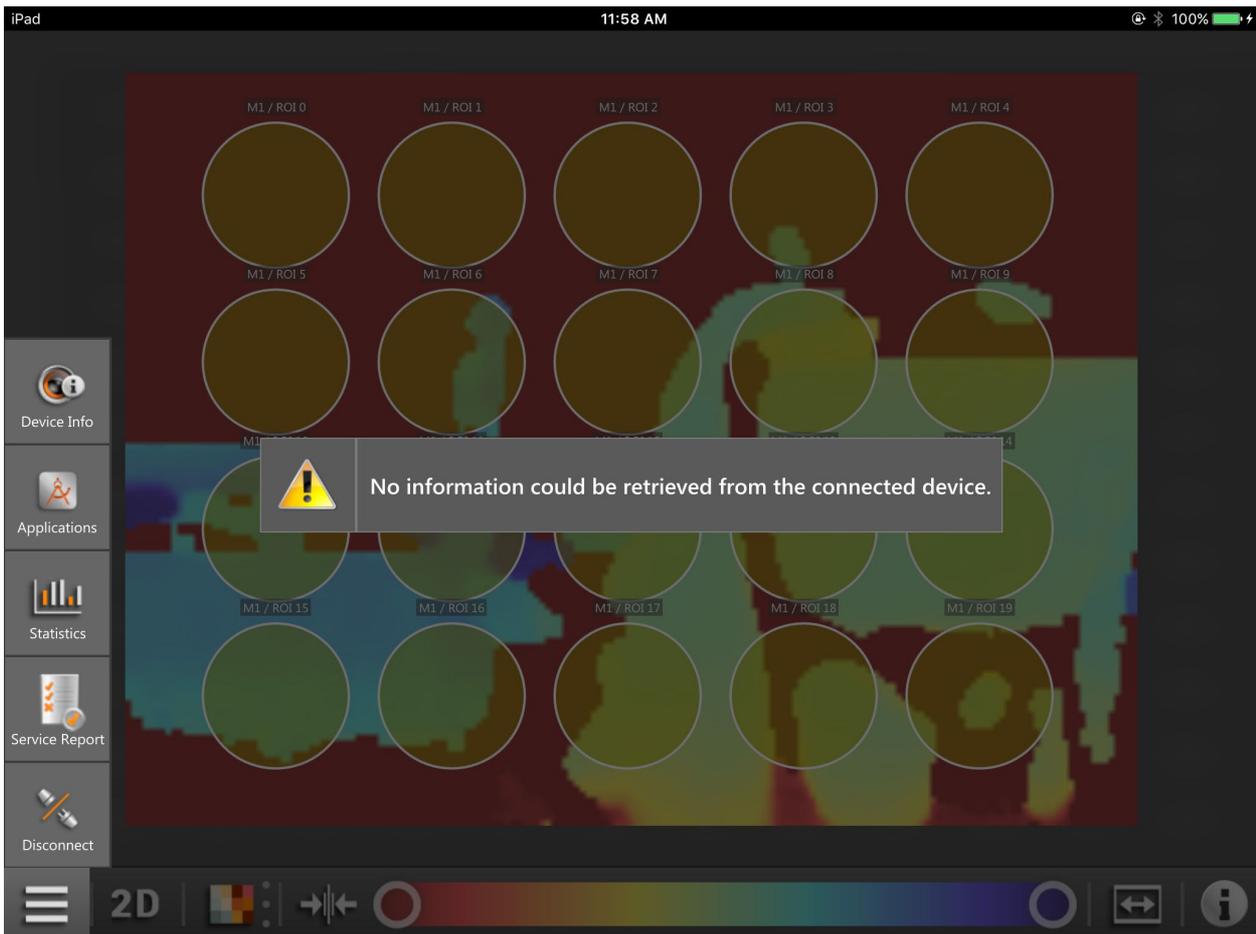


Figure 40: Error message

The following points have to be observed:

- The iPad running ifm mobileVisionAssistant is connected to a network. The connection can be made via a wireless network (Wi-Fi or GSM with a SIM card).
- The Wi-Fi router connected to the iPad is configured for the network.
- The device is connected to the same subnet as the iPad. The IP address and the subnet mask must be set for the device. Detailed information about the configuration of the IP address of the device is given in (→ 5.7).
- The live image mode must be activated once with the PC software ifm Vision Assistant (→ 5.6).

## 5.2 Edit mode

When the device is in the edit mode, no data can be shown. The error message in Figure 41 is displayed.

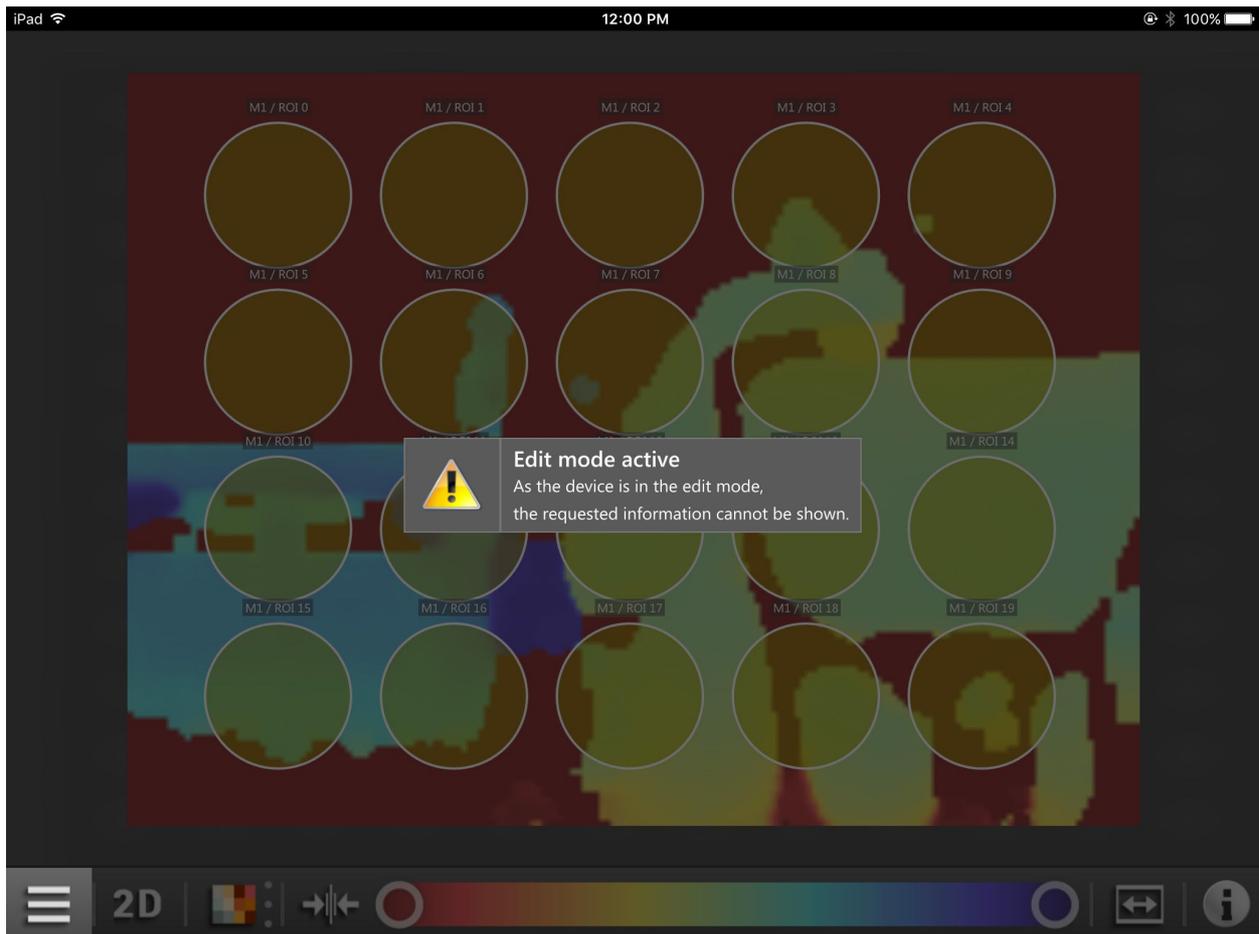


Figure 41: Edit mode

The device is in the edit mode when an application saved on the device is edited.

In the edit mode the applications can be edited with the PC software ifm Vision Assistant. When the application list has been loaded, you automatically exit the edit mode.

In the edit mode you can change the active application. When another application has been selected, you automatically exit the edit mode.

With the PC software ifm Vision Assistant you can exit the edit mode manually.



In the PC software ifm Vision Assistant the edit mode of the ifm mobileVisionAssistant cannot be seen.

### 5.3 Trigger mode

When the device is in the trigger mode, no data can be shown. The error message in Figure 42 is displayed.

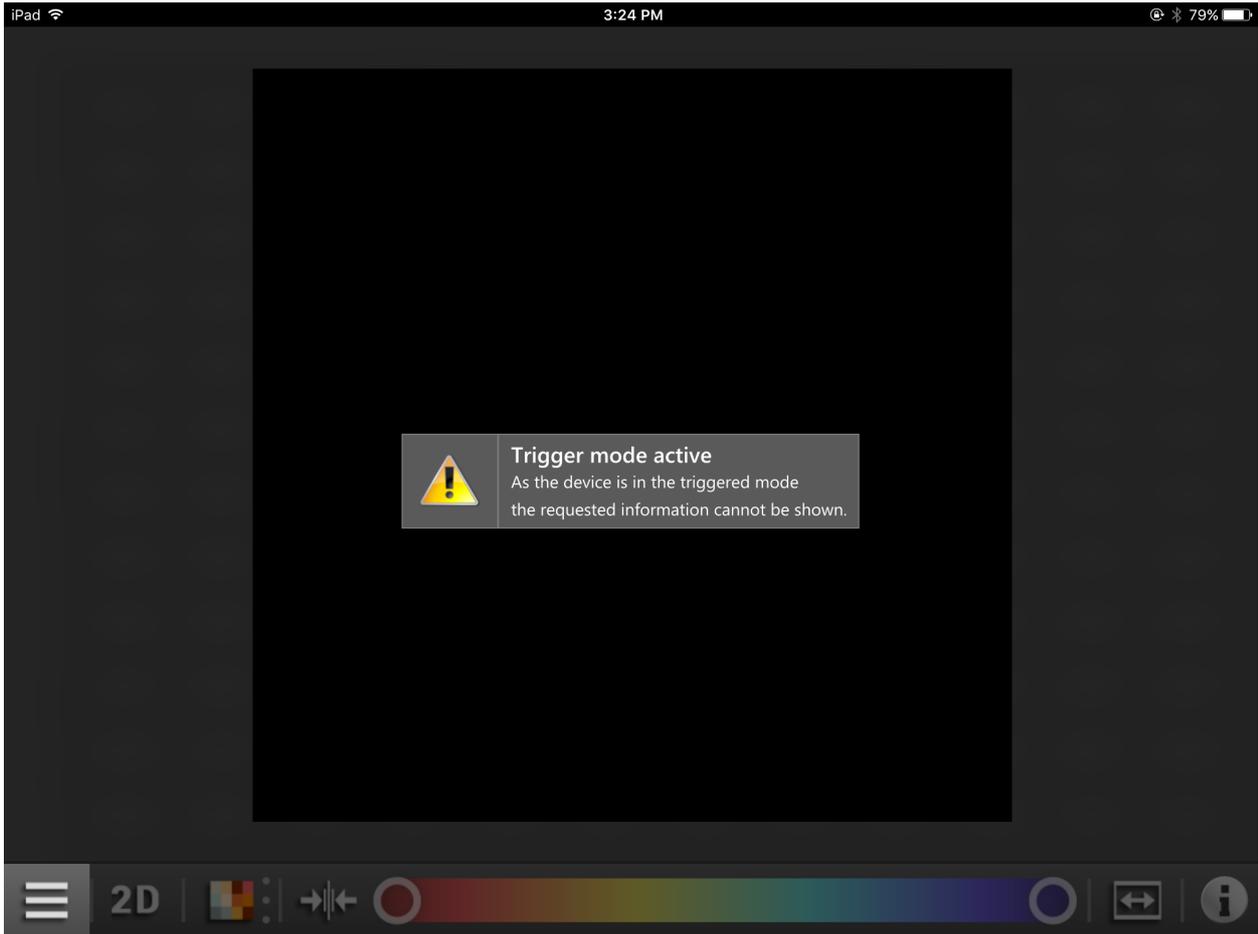


Figure 42: Trigger mode

You can exit the trigger mode with the PC software ifm Vision Assistant (→ 5.6).

## 5.4 Socket error

A socket error is displayed when the connection between the device and the iPad is disturbed. The error message in Figure 43 is displayed if, for example, Wi-Fi is disconnected.

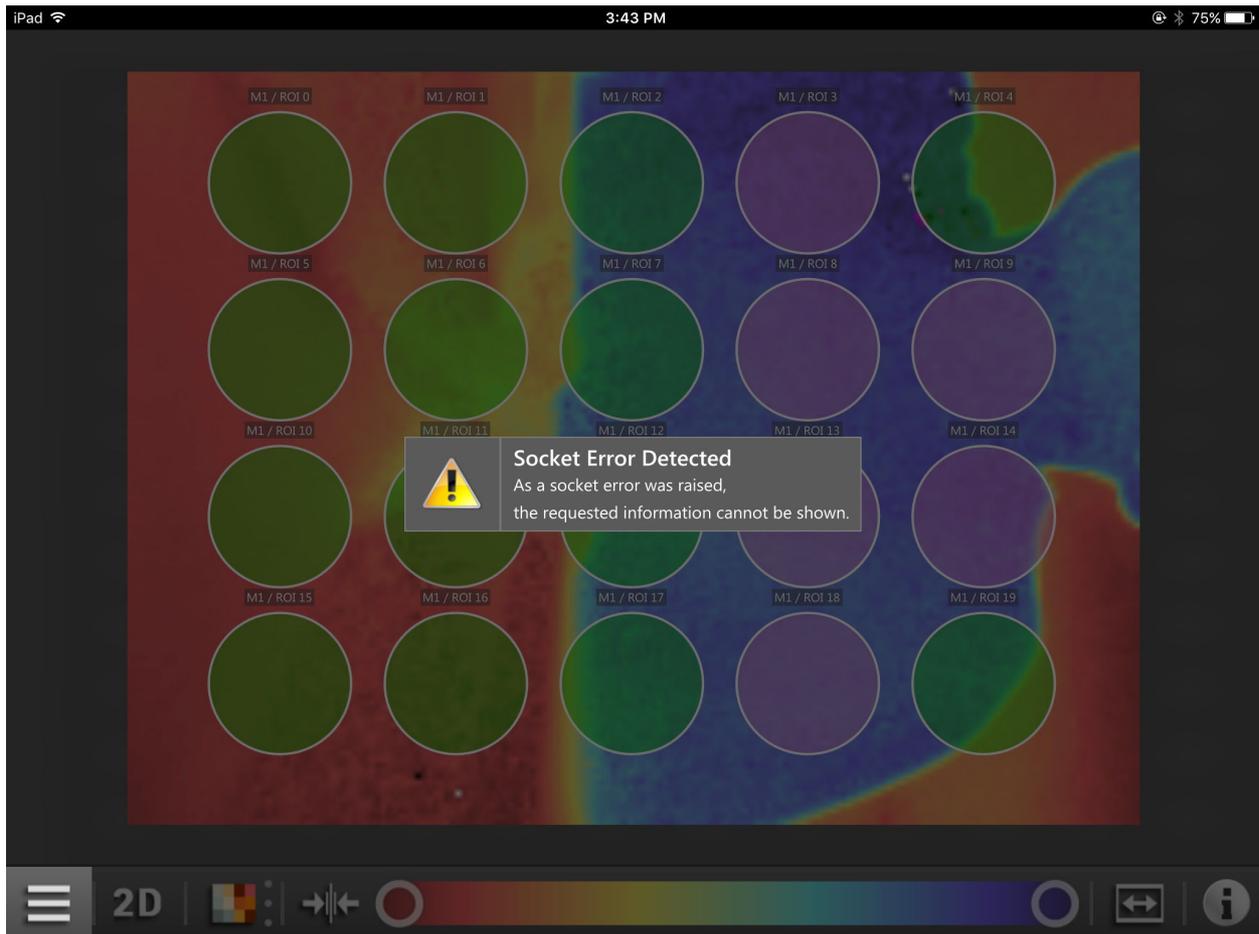


Figure 43: Socket error

The following points have to be observed:

- The iPad running ifm mobileVisionAssistant is connected to a network. The connection can be made via a wireless network (Wi-Fi or GSM with a SIM card).
- The Wi-Fi router connected to the iPad is configured for the network.
- The device is connected to the same subnet as the iPad. The IP address and the subnet mask must be set for the device. Detailed information about the configuration of the IP address of the device is given in (→ 5.7).
- The live image mode must be activated once with the PC software ifm Vision Assistant (→ 5.6).

## 5.5 Low power mode of the iPad

If the iPad changes to the low power mode, the iPad and the device are disconnected. After the iPad has woken up, the ifm mobileVisionAssistant displays the following error message:

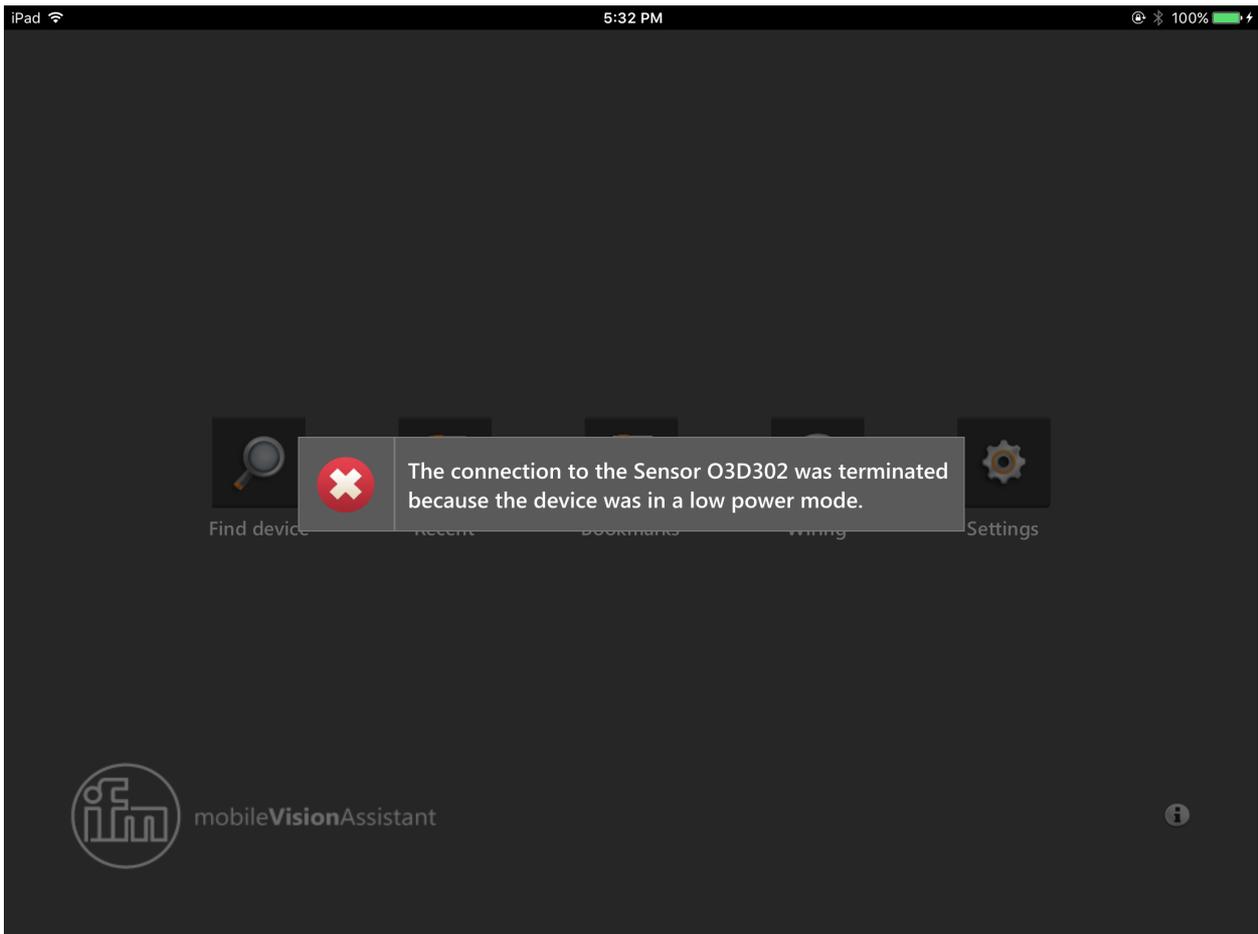


Figure 44: Error message on the monitoring screen

Then the start screen is displayed (→ 4.2). Connection to the device must be made again.

## 5.6 Activate live image mode

If the error message in Figure 39 occurs although all points in section 5.1 have been observed, the live image mode must be activated in the device. The live image mode (also called continuous trigger mode) is activated with the PC software ifm Vision Assistant.



The PC software ifm Vision Assistant can be downloaded at:

[www.ifm.com](http://www.ifm.com)

Activate the live image mode:

1. Install and start ifm Vision Assistant on the PC.
2. Connect ifm Vision Assistant with the device of the product family O3D3xx.
3. Click on [Applications] in the navigation bar.
4. Select the active application.
5. Click on [Edit application].
6. Click on [Live image] .
7. Exit ifm Vision Assistant.

The live image mode is active.



The ifm Vision Assistant documentation can be downloaded at:

[www.ifm.com](http://www.ifm.com)

## 5.7 Set IP address

For a connection the iPad and the device must be in the same subnet.

It is described below how to set the IP address of the device with the PC software ifm Vision Assistant.



The PC software ifm Vision Assistant can be downloaded at:

[www.ifm.com](http://www.ifm.com)

Set the IP address:

1. Install and start ifm Vision Assistant on the PC.
2. Connect ifm Vision Assistant with the device of the product family O3D3xx.
  - > When first connecting, the IP address "192.168.0.69" is displayed. This is the default IP address.
3. Click on [Connect].
  - > The error message "Incompatible IP address" is displayed.
4. Click the error message.
5. Use the IP address for the device.
  - > The IP address is still unused and can be used for the device. Unused IP addresses can only be identified if DHCP is activated in the network.
6. Click on [Change device address].

The IP address of the device is set.

## 6 Appendix

### 6.1 Glossary

#### **Active application**

The application set to "active" in the device: This application is running when the device is ready for operation.

#### **Amplitude**

Refers to the reflectivity of the objects in the infrared range: The device provides a grey-scale representation of the measuring result - the higher the reflection, the lighter the shade of grey.

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#### **Change of application**

The change of application can be triggered via the process interface or via the digital inputs.

#### **Operating mode**

Mode is active as default if an active application is available on the device. The active application is in the process of being executed.

#### **Pixel**

Individual data point in a 2D/3D image.

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## 7.10 Qt 5.6.0

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## 7.12 XmlRpcClient Lib

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