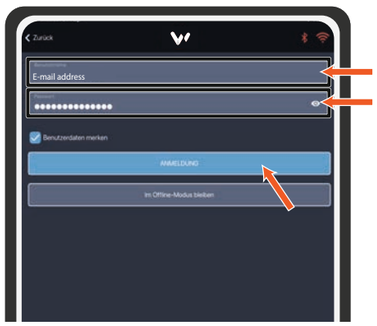
Creating a project

1

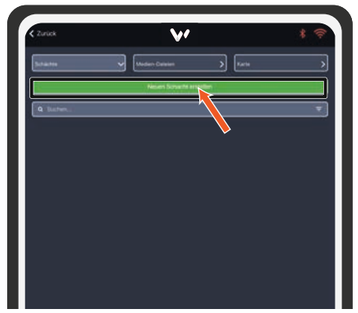
2



3

Creating a manhole

1



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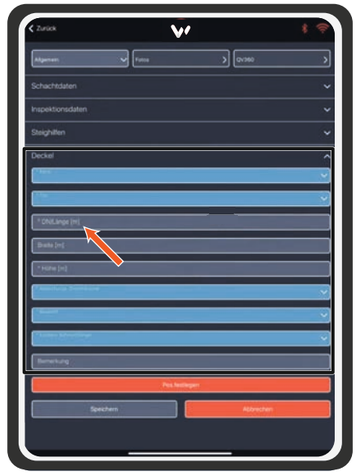
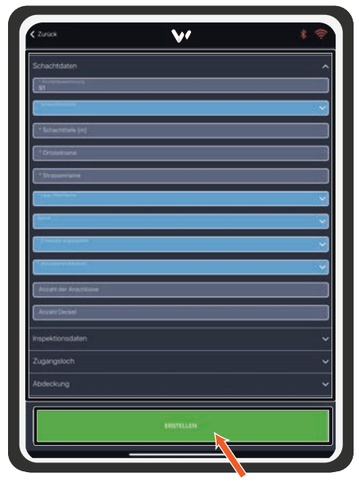


☞ **NOTICE!** Note that the input of precise data is important for the 3D reconstruction!

3



Starting an inspection

Determining manhole dep

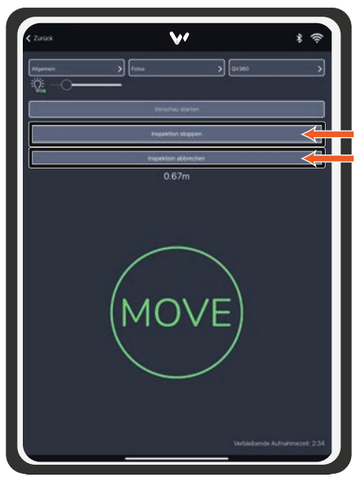
▷ Start the inspection by carefully lowering the ***QV360*** into the manhole.
▷ Note the symbols on the display.

MOVE — The ***QV360*** is in Inspection mode.
▷ The device can slowly be moved down.

SLOW — The ***QV360*** is moved down too quickly.
▷ Slow down the lowering immediately.

STOP — The ***QV360*** is located near the bottom of the manhole.
▷ The inspection is ended automatically.

Ending/canceling an inspection



▷ Tap the “End inspection” button to manually end the inspection and download the video.
▷ Tap the “Cancel inspection” button to stop the recording.
This action does not initiate a video download.

QUICK-START INSTRUCTIONS QV360

TECHNICAL DATA

- Camera head dimensions: dia. 8 x 26 cm
- Weight (incl. battery, without inspection system): 0.7 kg
- Camera resolution: HD / 4K
- Battery life: Up to 8 hours
- Telescopic pole length: 1.7 m – 10 m
- Telescopic pole weight: 1.8 kg

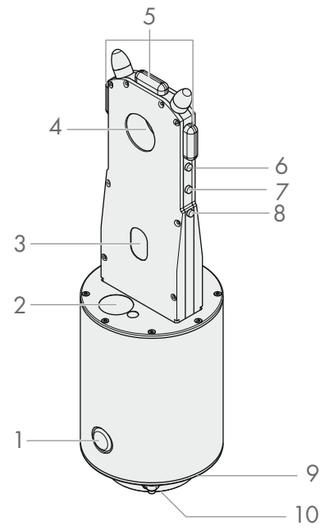
The inspection system is supplied with power by a rechargeable battery and can thereby be operated independent from mains power.

SCOPE OF DELIVERY

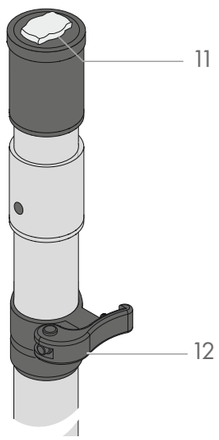
- QuickView360 camera system
- Telescopic pole
- USB charging cable

ADDITIONALLY REQUIRED

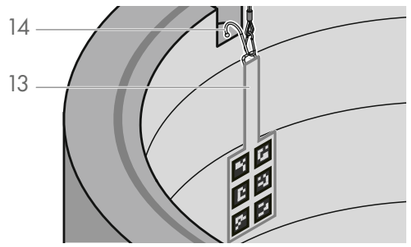
- Power supply (5 V/2 A)
- Compatible functional device
  - iPad 10th gen - min. iOS 15.6. (**recommendation**)
  - iPhone 12 - min. iOS 17.1.2
  - Samsung Galaxy Tab S8 min. Android 13



1 On/Off switch (QuickView360)
2 Laser rangefinder
3 Display
4 Bilateral 180° lenses
5 360° LED lighting
6 On/Off switch (camera)
7 Operating switch (WLAN)
8 Operating switch (video mode)
9 Charging socket
10 Connection for telescopic pole



11 Connection for QuickView360
12 Clamp



13 ArUco Card
14 Hook

GENERAL INFORMATION

- ***QuickView360*** was specifically designed for use in round structural shapes with a diameter of up to 2 meters and a depth of up to 9 meters.
- For other structural shapes, we recommend you contact your sales partner.
- It is possible to install additional lighting on the camera for broader manholes.
- At a depth of more then 10 meters, there is a risk that the connection between camera and tablet may be lost.
- This manhole inspection camera is not waterproof. It is only protected against splashing water.
- After you have charged the camera, replace the protective cover to protect the plug from dirt and water.
- We recommend using the Microsoft Edge browser for optimal use of the WinCan Web functions.
- Refer to the operating instructions for more information and important safety notices!

CAMERA OPERATION

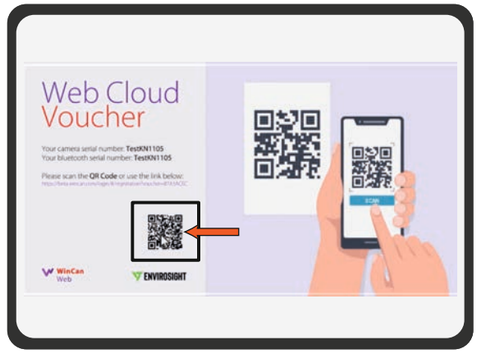
- Press the On/Off switch to turn the device on.
- Press the On/Off switch briefly and hard to turn the camera on.

OPTIMIZING VIDEO AND 3D RECONSTRUCTIONS IN WINCAN WEB

- Exposure of the camera to direct sunlight can impair the quality of the recorded video and make the subsequent 3D reconstruction difficult or impossible. We recommend recording a video in the shade.
- The structure of the manhole in the video is essential for the 3D reconstruction. A scan, without recognition of a structure, such as in case of a manhole with inserted inliner, can make the subsequent 3D reconstruction difficult or impossible.
- Use the 4K video setting in the app for the best possible quality.
- Make sure that the inspected manhole is sufficiently illuminated by the integrated lighting.
- At the start of the inspection, position the camera lenses at the height of the manhole cover.
- Start in the center of the manhole cover and lower the pole. Guide the pole as centered as possible along an imaginary line that leads straight to the bottom. Hold the pole as vertical as possible during this procedure.
- Lower the camera evenly and without jerking. A constant speed improves the video quality. It is recommended to rotate the camera around its own axis as little as possible when lowering it to prevent blurring in the video.
- Make sure no individual segments of the telescopic pole slide into the mechanical stops at the end of a segment. They do not withstand the stress. If used improperly, the segment can slide out of the telescopic pole and drop into the manhole.
- Stop the procedure approximately 30 cm before reaching the bottom of the manhole. Note the deactivation of the lighting and the STOP sign in the app.
- The ArUco card (13) has a defined format and pattern that serves as a basis for increased accuracy in the measurements of 3D reconstruction in WinCan Web.
- The ArUco card should be placed as vertically as possible on the manhole's wall using the hook (14). During video recording, the ArUco card must be fully visible and positioned as centrally as possible in the video of one lens to ensure that no image information is lost due to the overlap of the videos from the two lenses.

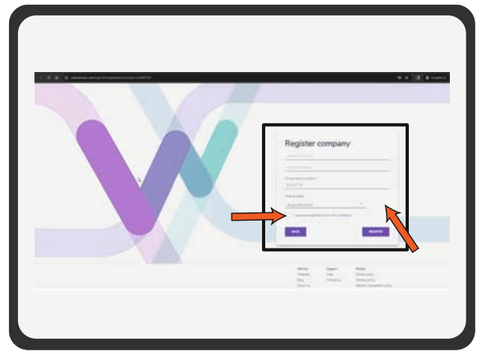
Creating an account in the WinCan Web

1



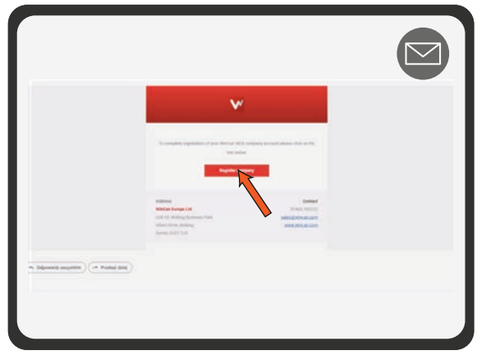
☞ **NOTICE!** You will find the QR code in your enclosed documentation.

2



☞ **NOTICE!** Always use your employer's e-mail address to operate the device! You will receive an e-mail with an activation link. Check your inbox.

3



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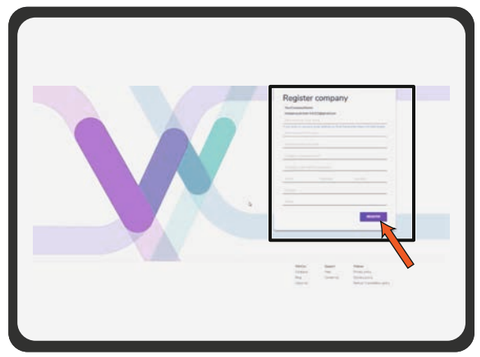
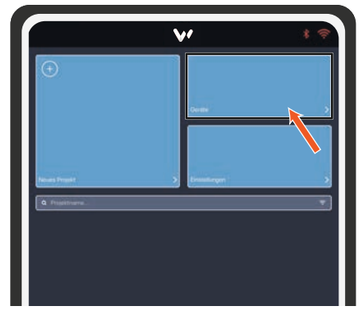


Establishing a connection between the WinCan Mobile app and the QV360

1 ▷ Open the WinCan Mobile app on your device.

2



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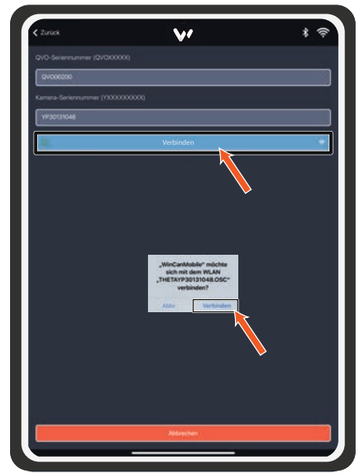

☞ **NOTICE!** You can find the serial number of your ***QuickView360*** on the rating plate of your product.

5 ▷ If necessary, enter the following Bluetooth code to establish a successful and secure connection to your device:

123123