

# USB Endoscope Camera UEC-3018

with 6 LEDs, for PC & OTG Android smartphone, IP67

## User manual



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Information and answers to frequently asked questions (FAQs) about many of our products, as well as necessary Updated manuals can be found on the website:

**[www.somikon.de](http://www.somikon.de)**

Enter the item number or item name in the search field there.

# Your new USB endoscope camera

**Dear Customer,**

Thank you very much for purchasing this USB endoscope camera. Explore every dark corner, even via smartphone and tablet PC.

Please read these operating instructions and follow the listed instructions and tips to ensure you can use your new USB endoscope camera to its full potential.

## Scope of delivery

- USB endoscope camera
- USB-A to Micro-USB adapter
- Hook attachment
- Magnetic attachment
- Mirror attachment
- Mounting sleeve
- Driver CD
- User manual

### **Additionally required:**

- OTG-enabled Mobile device with Android 4.3
- PC With Windows XP / Vista / 7 / 8 / 8.1 / 10
- Free app OTG View

# Important information at the beginning

## Safety instructions

- This user manual is designed to familiarize you with how this product works. Therefore, keep these instructions in a safe place so that you can refer to them at any time.
- Modifying or altering the product will compromise product safety. Caution: Risk of injury!
- All modifications and repairs to the device or accessories may only be carried out by the manufacturer or by persons expressly authorized by the manufacturer. Never open the product yourself. Never attempt repairs yourself!
- Handle the product carefully. It can be damaged by bumps, blows, or falls from even a low height.
- Keep the product away from prolonged exposure to moisture and extreme heat.
- Do not immerse the product in water for extended periods of time, and never in other liquids such as... W. Fuels or acids and alkalis.
- Check the device for damage before each use. If the device, cable or plug shows visible damage, the device must not be used. Do not use the device if it has malfunctioned.
- Ensure that the connecting cable is not kinked, pinched, run over, or comes into contact with heat sources or sharp edges. It must also not become a tripping hazard.
- Please use the product only as intended. Any other use may result in damage to the product or the area surrounding the product.
- When taking photos, please respect the right of others to their own image.
- The product must not be used for medical purposes or for examining people.
- Technical specifications subject to change without notice. Errors and omissions excepted.

## Important disposal information

This electrical appliance does not belong in household waste. For proper disposal, please contact the public collection points in your community. Details regarding the location of such a collection point and any possibly Please refer to the information provided by the respective municipality for any existing quantity restrictions per day / month / year.



## Declaration of Conformity

PEARL Inc. hereby declares that the product NX-4232-675 is in compliance with the RoHS Directive 2011/65/EU and the EMC Directive 2014/30/EU.

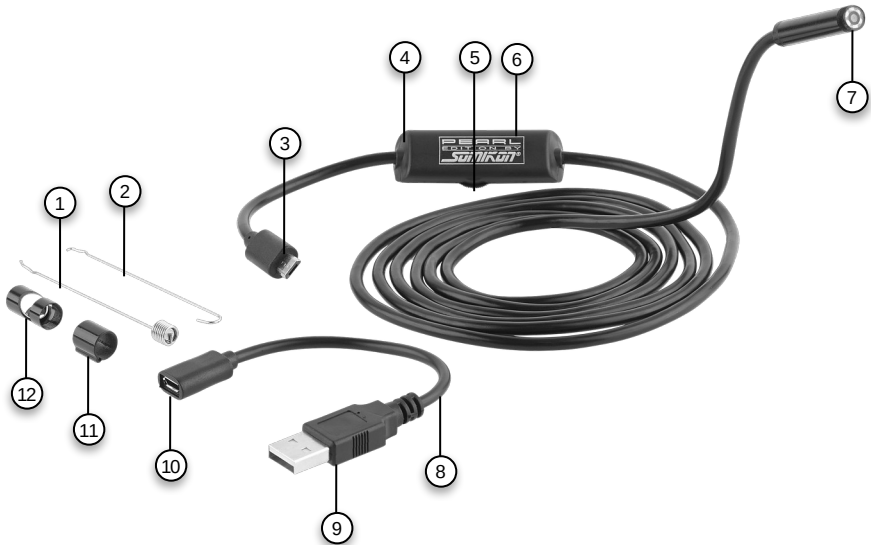
A handwritten signature in black ink, appearing to read 'Kurtasz, A.'.

Quality Management, Dipl. Ing. (FH) Andreas Kurtasz

The full declaration of conformity can be found at [www.pearl.de/support](http://www.pearl.de/support). Enter the item number NX-4232 in the search field there.



## Product details



- |   |                     |     |                   |
|---|---------------------|-----|-------------------|
| 1 | Magnetic attachment | 7.  | camera            |
| 2 | Hook attachment     | 8.  | adapter           |
| 3 | Micro-USB connector | 9.  | USB plug          |
| 4 | control unit        | 10. | Micro-USB port    |
| 5 | Light control       | 11. | Mounting sleeve   |
| 6 | Photo button        | 12. | Mirror attachment |





# commissioning

## Mobile device

Search for the free app OTG View in the Google Play Store. Install this on your mobile device.



## Windows PC

1. Insert the driver CD into the computer's CD drive.
2. Open the CD folder.
3. Open the PC folder.

◀ Momentan auf dem Datenträger vorhandene Dateien (3)

|                                                                                                |                  |                    |          |
|------------------------------------------------------------------------------------------------|------------------|--------------------|----------|
|  PC           | 02.05.2013 15:01 | Dateiordner        |          |
|  manual 1.pdf | 24.11.2017 04:20 | Adobe Acrobat D... | 1.612 KB |
|  manual 2.pdf | 24.11.2017 04:20 | Adobe Acrobat D... | 1.916 KB |

4. Double-click the application setup.exe.

◀ Momentan auf dem Datenträger vorhandene Dateien (2)

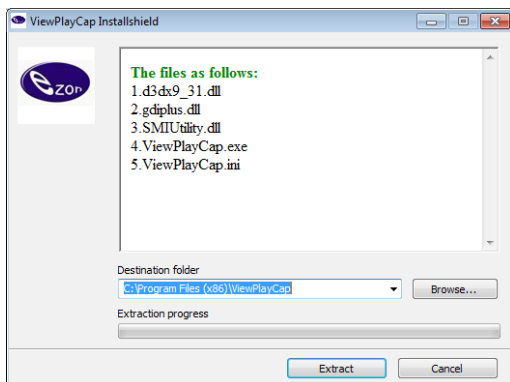
|                                                                                               |                  |                     |          |
|-----------------------------------------------------------------------------------------------|------------------|---------------------|----------|
|  AUTORUN.INF | 13.06.2000 11:20 | Setup-Informatio... | 1 KB     |
|  setup.exe   | 02.05.2013 14:50 | Anwendung           | 2.372 KB |

5. Read the license agreement and then click Accept.



6. The InstallShield Wizard will open.

7. Tap Browse and specify the desired storage location. Then click on Extract.



8. Confirm the warning message with Yes. The program is being installed. The program icon appears on the desktop:



## use

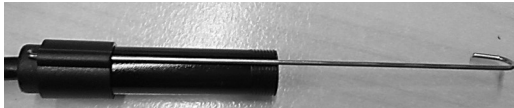
### Attach the attachment

#### Fishing hook / Magnet

1. Place the top hook in the mounting opening of the camera head.



2. Slide the mounting sleeve over the attachment until it fits snugly against the camera head.



#### Mirror

Screw the mirror attachment clockwise onto the camera head.



### Mobile device

1. Connect your endoscope camera to the micro-USB port of the mobile device. The LEDs on your endoscope camera are lit up.
2. A message window opens upon the first connection. Select the OTG View app and tap ALWAYS.



**A NOTICE:**

*After the initial connection, the app opens automatically when the camera is connected.*

3. Tap the connection icon in the top left corner to view your camera image.



4. Adjust the desired brightness of the camera LEDs using the light control on the control unit.
5. Control the app by tapping the corresponding icons.

- **Photo taken**

Take a photo by tapping the photo icon in the middle right.

- **Video recording**

1. Switch to video mode by tapping the camera icon in the top right corner.
2. Start or stop recording by tapping the camera icon in the middle right corner.



*A NOTICE:*

*Switch back to photo mode by tapping the photo icon in the top right corner.*

- **View recordings**

1. Tap the gallery icon in the bottom right corner.
2. Access your photo or video files by tapping the corresponding menu item: Image = photo files, Video = video files.
3. Return to the home screen by tapping Back.

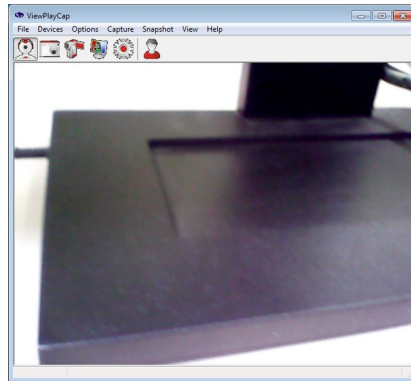
- **Settings**

Access the settings menu by tapping the settings icon in the bottom left corner. Then make the desired app settings or access further information.

## Windows PC

### Generally

1. Connect your endoscope camera to the micro-USB socket of the adapter and the USB plug of the adapter to the USB port of the computer.
2. Wait until the device drivers have been installed.
3. Open the ViewPlayCap program. The live camera image appears.



4. Adjust the desired brightness using the light control on the control unit.
5. Control your endoscope camera by clicking on the corresponding icon. Or press the photo button on the control unit.



Show/hide live image



Photo taken



Video recording



Image settings



Select video source

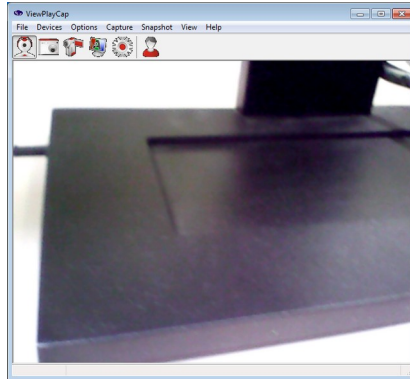


Program information



## Take a snapshot

1. Connect your endoscope camera to the micro-USB socket of the adapter and the USB plug of the adapter to the USB port of the computer.
2. Wait until the device drivers have been installed.
3. Open the ViewPlayCap program. The live camera image appears.



### A NOTICE:

*If you do not see a live image, click on the Devices menu at the top and check the box next to USB2.0 PC Camera. Then make sure that the live image is activated by clicking on the following icon:*



4. Adjust the desired brightness using the light control on the control unit.
5. Wait until the desired object is displayed in the live image. Then click on the following icon:



6. The photo will open in Windows Photo Viewer.



### A NOTICE:

*A folder with the current date will be created in your default photo storage. The image is stored there. The image can be saved under a different name and in a different location using the Windows Photo Viewer (File > Make a copy > Enter a name > Choose location > Save).*





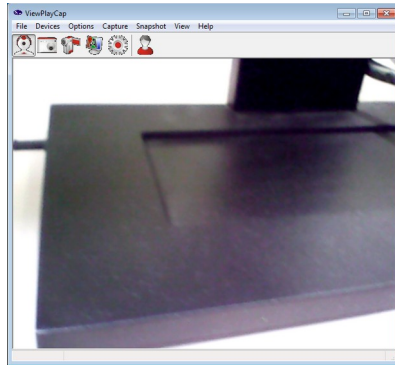
## Record video



*a notice:*

*Before you start recording the video, be sure to specify a storage location and file name, otherwise the recording cannot be saved.*

1. Connect your endoscope camera to the micro-USB socket of the adapter and the USB plug of the adapter to the USB port of the computer.
2. Wait until the device drivers have been installed.
3. Open the ViewPlayCap program. The live camera image appears.

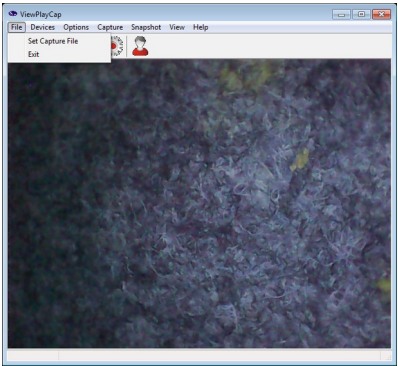


**A NOTICE:**

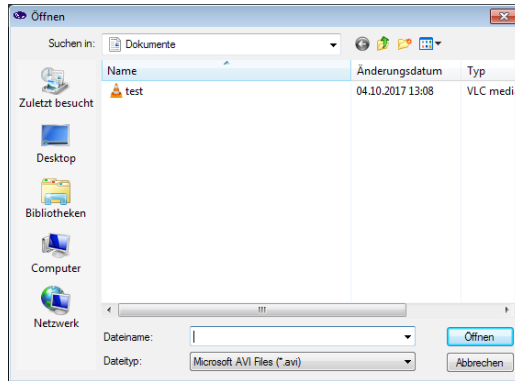
*If you do not see a live image, click on the Devices menu at the top and check the box next to USB2.0 PC Camera. Then make sure that the live image is activated by clicking on the following icon:*



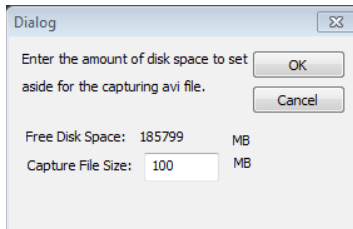
4. Click on the File menu at the top, and then click on Set Capture File.



5. Give the video recording a file name and select the desired storage location. Then click Open.



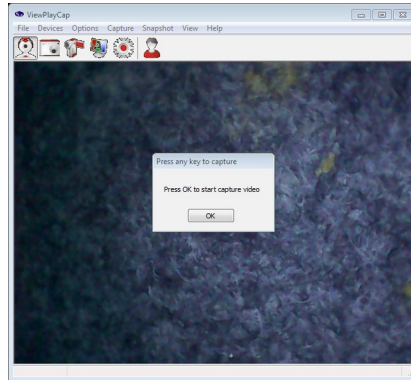
6. Specify how much storage space should be allocated to your video recording on the computer. Then click OK.



7. Start video recording mode by clicking on the following icon:



8. Start the Video recording by clicking OK in the message window.



9. Click the video icon again to stop recording.



#### **A NOTICE:**

*During an active video recording, the circle in the video settings icon turns grey, as no settings can be changed during recording.*



#### **DANGER!**

***Be sure to create a new filename for the next recording, otherwise the old recording will be overwritten.***

## **Image settings**

### **Generally**

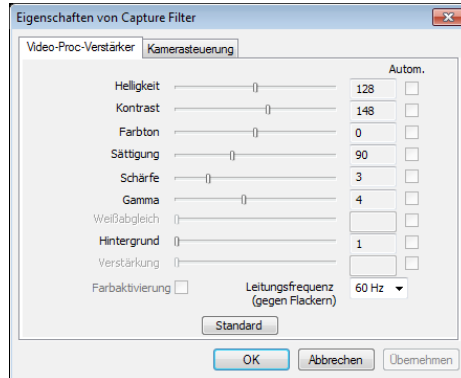
Adjust the camera image settings to suit your needs. The following image settings can be adjusted:

- brightness
- contrast
- shade
- saturation
- Sharpness
- gamma
- background
- Line frequency

1. Click on the monitor icon:



- The settings window will open. Enter the desired values next to the settings options.



#### A NOTICE:

The automatic option The camera control tab is also non-functional on this model.

- Check and save the image settings by clicking Apply.
- If the new live image meets your expectations, click OK in the settings window.

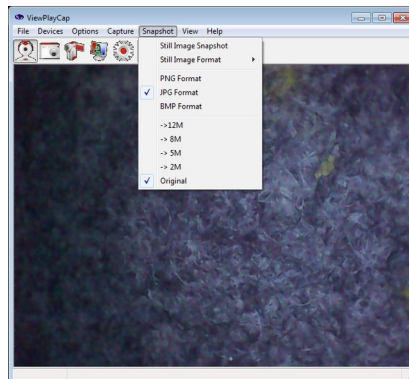


#### A NOTICE:

Restore the factory settings of the image options by clicking on Default in the settings window.

## Set image format

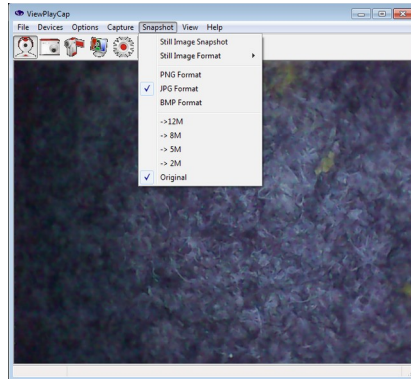
- Click on the Snapshot menu at the top.
- Select the file format in which you want to save the image (PNG, JPG, BMP) by clicking on it.





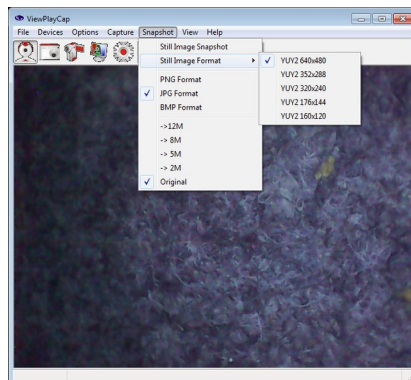
## Set image resolution

1. Click on the Snapshot menu at the top.
2. Select the desired resolution (12M, 8M, 5M, 2M) by clicking on it.



## Adjust image size

1. Click on the Snapshot menu at the top.
2. Click on the menu item Still Image Format.
3. Select your desired image size by clicking on it.



## Video settings

### Generally



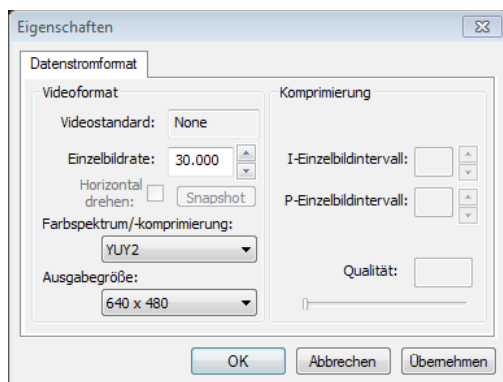
**A notice:**  
Video settings cannot be changed during recording. First, stop the video recording.

Adjust the frame rate and output size of the video recordings.

1. Click on the settings icon:



2. The settings window will open. Make the desired changes and click Apply.



3. Confirm the changes with OK.

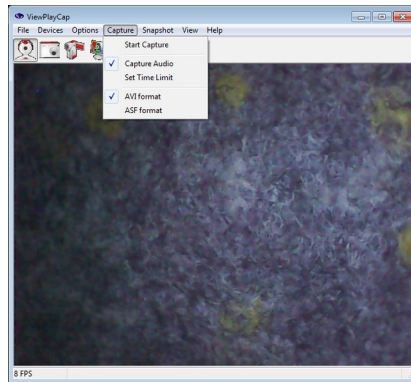


**A NOTICE:**  
The live image window adjusts to the set output size of the video recording.

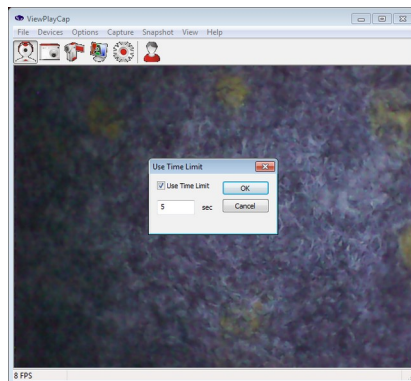


## Automatically stop video recording

1. Click on the Capture menu at the top, and then click on Set Time Limit.



2. The settings window will open. Enter the desired duration of the video recording in seconds.



3. Then check the box next to Use Time Limit and click OK. The video recording will automatically stop after the set time period has elapsed.



### A NOTICE:

Deactivate the function by removing the checkmark next to Use Time Limit by clicking it again.



## Program menu overview

The program menu can be found in the top status bar.

| menu     | Menu item            | Meaning                                                   |
|----------|----------------------|-----------------------------------------------------------|
| File     | Set Capture File     | Filename and storage location of the next video recording |
|          | Exit                 | End program                                               |
| Devices  | USB 2.0 PC CAMERA    | Check the box                                             |
| Options  | Preview              | Show/hide live image                                      |
|          | Preview Format       | Adjust window size                                        |
|          | Video Capture Pin    | Video settings                                            |
|          | Video Capture Filter | Image settings                                            |
|          | Audio Capture Filter | This model is non-functional                              |
|          | Mirror + Flip        | Flip image horizontally                                   |
| Capture  | Start Capture        | Video recording mode                                      |
|          | Capture Audio        | This model is non-functional                              |
|          | Set Time Limit       | Duration of video recording                               |
|          | AVI format           | Video format                                              |
|          | ASF Format           | Video format                                              |
| Snapshot | Still Image Snapshot | snapshot                                                  |
|          | Still Image Format   | Image size                                                |
|          | PNG format           | Image format                                              |
|          | JPG format           | Image format                                              |
|          | BMP format           | Image format                                              |
|          | -> 12 M              | Image resolution                                          |
|          | -> 8 M               | Image resolution                                          |
|          | -> 5 M               | Image resolution                                          |
|          | -> 2 M               | Image resolution                                          |
|          | Original             | Do not create a copy                                      |
| View     | Always on Top        | Program window always the frontmost window on the screen  |
|          | Show FPS             | Show frame rate below                                     |
|          | Open Desktop         | Open desktop folder                                       |
|          | Open My Videos       | Open my videos folder                                     |
|          | Open My Pictures     | Open my picture folders                                   |
| Help     | About ViewPlayCap... | Help                                                      |

Technical data

|                       |                 |                                |
|-----------------------|-----------------|--------------------------------|
| power supply          |                 | 5 V DC                         |
| Video resolution      |                 | 640 x 480 Pixel                |
| Photo resolution      |                 | 12 sts / 8 sts / 5 sts / 2 sts |
| Number of LEDs        |                 | 6                              |
| focus                 |                 | 4 cm – infinite                |
| field of view         |                 | 66°                            |
| Operating temperature |                 | -20° to 85°C                   |
| Protection class      |                 | IP67                           |
| Mass                  | Camera (Ø x L)  | 7 x 40 mm                      |
|                       | Cable length    | 155 cm                         |
|                       | Control element | 18 x 48 X 8 mm                 |
| Weight                |                 | 54 g                           |



Customer service:

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