

Omegon USB hand microscope



Description of the parts:

Focusing knob - Turn to select the focus and magnification.

Introduction

The Omegon USB hand microscope provides you with an instrument with which you can see even the smallest objects enormously magnified on your PC screen. This microscope consists of an optical system and a CMOS sensor, which magnify your specimens and make them visible digitally. The eight lighting LEDs are arranged in a circle to ensure the specimen is always perfectly illuminated - allowing you to examine the object using the supplied software or even save images or video sequences.

Set up and installation

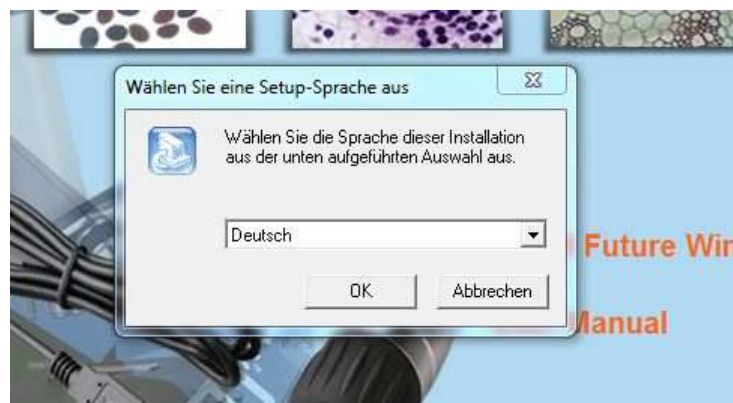
Your microscope comes with a USB cable and a software CD. Make sure that your computer has the necessary hardware before you install: a USB 2.0 port and Windows XP, Vista, Win7, Win8 or Mac 10.4.

1. Plug the microscope cable into the USB port of your PC. The LED light will flash briefly, meaning the cable is functioning correctly.
2. Insert the supplied CD into your CD-ROM drive

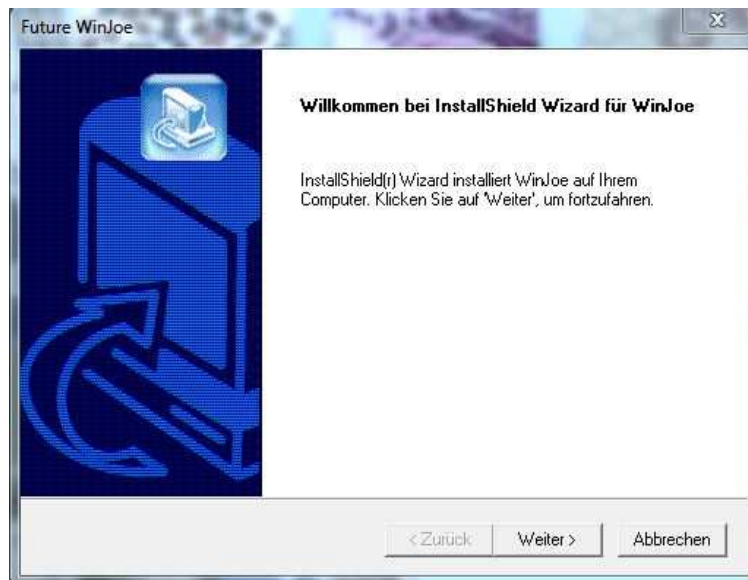
3. You will now see the start screen for installing the CD. Please click on "Install Future WinJoe"



4. A small window will prompt you to select the language. You may select, for example, German, English, French, Japanese, Russian or Spanish. After selecting, click on OK.



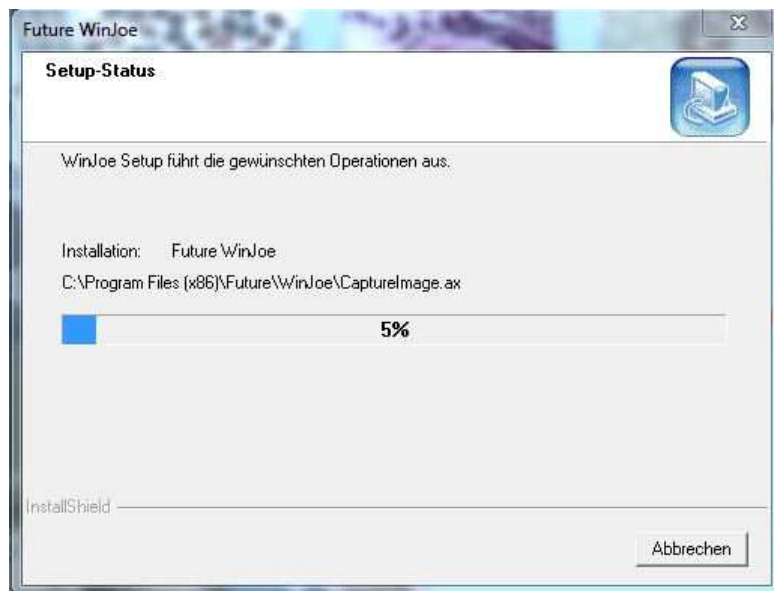
5. The welcome window then appears, click on "Continue"



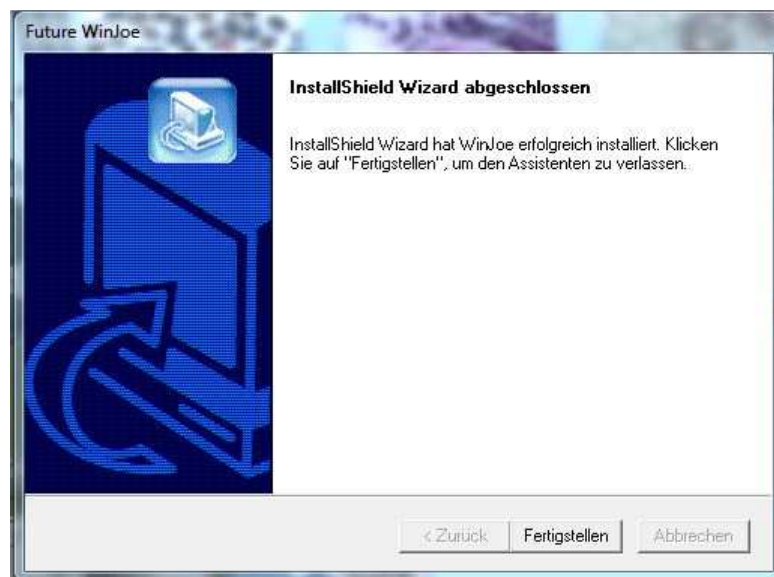
6 The license agreement will now appear. For continuing with the installation you must confirm with "Yes"



7 The installation will now start. Wait until the installation process is complete.

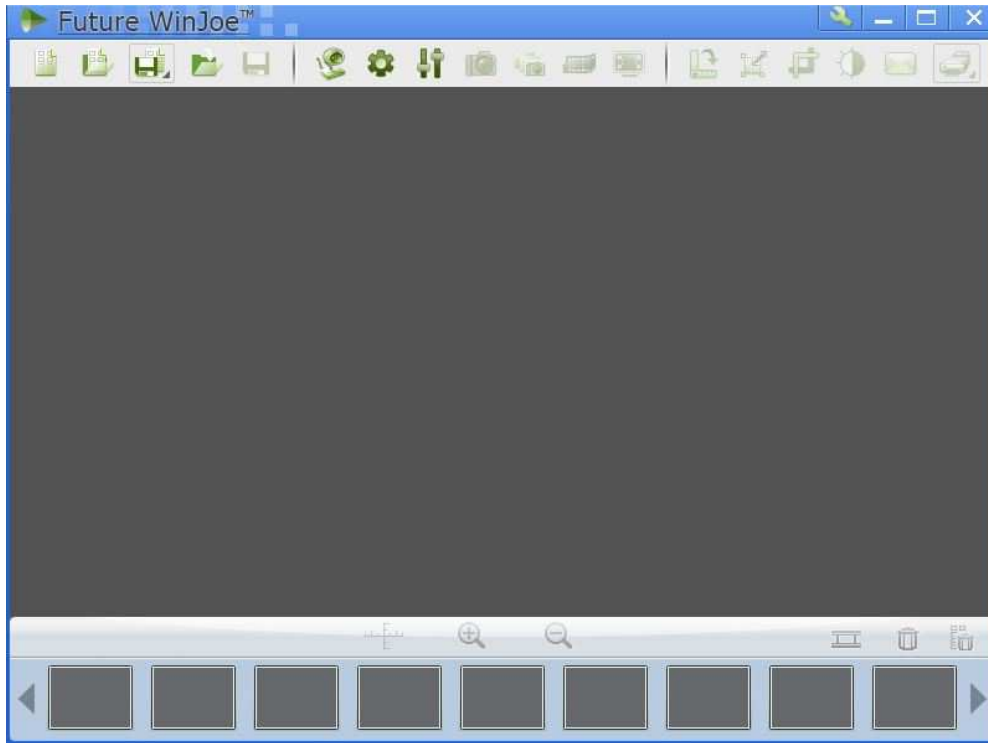


8 Finally, click on "Finish". The software is now installed and ready for use.



Observing and taking pictures with the USB microscope

Start the *Future Win Joe* program which is now installed on your computer. After starting the program, the following start window will appear, from which you can carry out all the various tasks:



The live image from the microscope will now be displayed on the large grey area.

1. Make sure that the USB microscope is still connected to your USB port. Then click on the webcam icon.



2. The live image from the microscope will now appear on the previously grey area. The image will be blurred however. Put the microscope on an object, for example, a sheet of graph paper, and slowly turn the focusing knob until the live image is in focus.

3. Now click on the camera icon with the mouse.



A photo is taken and saved in the media folder assigned. You will see a preview of the saved images in the bottom bar of the program window.

4. Click on the webcam icon again to see the live image from the microscope.



Recording a video

1. To take a video of the object click on the filmstrip icon.

2. Recording will start and the current recording time run will be displayed at the bottom of the window. Click on the filmstrip icon once more to stop recording. The finished film will be saved in the *Future Win Joe* media folder.

Changing the magnification

The USB microscope provides magnifications from 40X to 200X. Change the magnification by turning the focusing knob until you reach the magnification you require.

Other Features

Image processing:

After you have taken a photo, you can use the mouse to select an image from the preview bar. The greyed-out editing tools then become active.



The icons shown below allow you to manipulate captured images – you can rotate, resize, crop, use filters and even print them out or send them via e-mail.



It is also possible to save or export images separately using the folder and disk icons.

Camera settings:



The camera settings icon lets you configure the camera. You can adjust the brightness, contrast and exposure time. However, it is recommended to leave the settings on "Standard". If you want to return to the original settings after changing the individual sliders, simply click on "Standard".

Image capture settings:



The image capture icon lets you select the video and image format as well as the resolution desired and the location where the files are to be saved to.

Recommended system requirements

Operating system: Windows XP, Vista, Windows7, Windows8, OS10.4

Pentium 4 2.0 GHz or higher

512 MB DDR RAM

USB 2.0 port

Technical data

Sensor	1/3.2" 2.0 megapixel, CMOS
Maximum resolution	1600x1200 pixels
USB port	2.0
Frame Rate	7.5 fps at 1600x1200
Preview mode	1600x1200, 1280x1024, 640x480, 320x240
Sensitivity	1.0V/Lux at 550nm
Spectral sensitivity	400-1000nm
Shutter type	ERS (electronic rolling shutter)
White balance	automatic
USB cable length	1.5 meters
Operating system	Win XP, Vista, Win 7, 8, OS10.4