Operating Instructions for the

TQC DIGITAL USB MICROSCOPE
LD6184
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WELCOME
Thank you for purchasing a TQC Portable Digital Microscope. Please take a moment to read through this manual. Its contents will help you to get the best use of the smart microscope.

1. PRECAUTION

Before using Portable Digital Microscope, please ensure that you read and understand the safety precautions described below. Always ensure that the Portable Digital Microscope is operated correctly.

- Do not try to open the case of Portable Digital Microscope or attempt to modify the Portable Digital Microscope in any way. Maintenance and repairs should be performed only by authorized service Providers only.
- Keep the Portable Digital Microscope away from water and other liquids. Do not use the Portable Digital Microscope with wet hands. Never use the Portable Digital Microscope in the rain or snow. Moisture creates the danger of fire and electric shock.
- Keep the Portable Digital Microscope and its accessories out of the reach of children and animals to prevent accidents or damage to the Portable Digital Microscope. If you notice smoke or a strange odor coming from Portable Digital Microscope, turn the power off immediately. Take Portable Digital Microscope to the nearest authorized service center for repair. Never attempt to repair Portable Digital Microscope on your own.
- The Portable Digital Microscope may become slightly warm during use. This does not indicate malfunction.
- If the exterior of Portable Digital Microscope needs cleaning, wipe it with a soft, dry cloth.

FCC NOTICE
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

CAUTION
To comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules, this device, when needed, must only be connected to computer equipment certified to comply with the Class B limits.
2. PREPARATION

2.1 Scope of supply

- Portable Digital Microscope
- Lithium Battery
- AC adaptor
- CD
- USB cable
- TV cable
- QSG
- Cleaning fabric
- Carry bag
- Stand
- Strap
### 2.2 Parts Names & Functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Functions</th>
<th>No.</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Capture</td>
<td>13</td>
<td>Battery compartment</td>
</tr>
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<td>2</td>
<td>Zoom in/out</td>
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<td>8</td>
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<td>9</td>
<td>Micro SD card slot</td>
<td>21</td>
<td>Speaker</td>
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<td>10</td>
<td>Wrist strap grip hook</td>
<td>22</td>
<td>Microphone</td>
</tr>
<tr>
<td>11</td>
<td>Focus wheel</td>
<td>23</td>
<td>Battery charging indicator</td>
</tr>
<tr>
<td>12</td>
<td>LED’s brightness dial</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3. KEY FEATURES

- 3 inch TFT panel
- 5M high quality image sensor (up to 12M by interpolation)
- 20x-200x-500x magnification
- Photo & Video
- Timer
- Measurement (when working on computer)
- Support MicroSD card up to 32GB
- Driver free to download for Windows XP SP2/ Vista/Win7/Win8 and Mac OS 10.6 ~ 10.8 (direct plug-in, driver installation not required)
- Lithium battery (rechargeable & changeable)

4. USE

4.1 Installing the battery

1. Open the battery door by sliding it outwards.
2. Insert the lithium battery into the battery compartment according to the polarities shown in the compartment.

Note: Before using the microscope, you must charge the battery. Please refer to section 4.9 on how to charge the battery.
4.2 Inserting the MicroSD Card (not included)

You must insert a MicroSD card (not supplied) to record and store your pictures and videos.

Inserting the MicroSD memory card:
1. Turn off the microscope
2. Insert the MicroSD card into the MicroSD card slot, gently press in until card is latched.

Note: Do not force the card into the slot, forcing may damage microscope and the MicroSD memory card.
Align MicroSD card position (as marked) and try again. The MicroSD memory card must be formatted before capture. See the following instruction.

4.3 Display Icons & Meanings

<table>
<thead>
<tr>
<th>ICON</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>📸</td>
<td>Still image capture</td>
</tr>
<tr>
<td>⌛</td>
<td>Timer capture</td>
</tr>
<tr>
<td>📊</td>
<td>Captured image qty/total qty that can be captured (based on current resolution)</td>
</tr>
<tr>
<td>🛠️</td>
<td>Micro SD card inserted</td>
</tr>
<tr>
<td>🌡️</td>
<td>Current resolution</td>
</tr>
<tr>
<td>⚡️</td>
<td>Battery indicator</td>
</tr>
</tbody>
</table>

Note: The icon display can be switched on/off by pressing zoom wheel (2) downwards vertically.

4.4 Switching on the Microscope

1. Unfold the display panel, the microscope will switch on directly.

2. If you need to switch it on when panel is unfolded, press POWER ON/OFF button.
4.5 Switching off the Microscope

1. Fold the display panel and then the microscope will switch off automatically
2. Press ON/OFF button
3. By Power Save. Please refer to Section 5.2.2 for Power Save setup.

4.6 Capture an image

1. Switch on the microscope by simply unfolding the display panel to a proper position, normally at an angle of 90 degrees with the viewing end as follows:

2. Adjust the LED brightness dial to get a proper brightness of the LEDs at the microscope’s viewing end.

3. Hold the microscope main body by right hand; put the viewing end closely to target object; adjust focus wheel to get clear image with left hand.

4. When a clear image is displayed, hold the microscope steadily and press Capture button (1) once.
4.7 Record a video

1. Press LEFT/BACK (19) to enter video mode. The video icon is shown into the left corner.

2. Press Capture button (1) to start recording video. Press again to stop.

4.8 Play back

1. Press LEFT/BACK (19) to enter play back mode as follows. There is review icon on the left corner.

2. Press UP/DOWN to select among captured pictures and video clips.

4.9 Deleting files

1. At play back mode, press to enter sub-menu as follows, then confirm to delete.

4.10 Protecting files

1. At play back mode, press to enter sub-menu as follows, then confirm protect pictures from deleting.
4.11 Slide show

At play back mode, press \( \text{△} \) to enter sub-menu as follows, select interval time, and then confirm by OK.

4.12 Color Mode

At preview status, press \( \text{M} \) ▲ to switch between Color/Positive/Negative.

4.13 Zoom function

1. push Zoom Wheel upwards to zoom in

2. push Zoom Wheel downwards to zoom out

Note: The zoom ranges from 1x – 4x
4.14 Downloading files

1. Connect the microscope to your computer by use of the USB cable.
2. Choose Mass Storage, you can now view your stored photos & videos.

4.15 Preview

1. Connect the microscope to your computer by use of the USB cable.
2. Choose PC Camera mode
3. Start PortableCapture software. Please refer to Part II on how to use the microscope by PortableCapture software.

Note:
- When working on your computer, the button functions are no longer valid, but most of the functions are available in the PortableCapture software.
- Voice recording is not available in PC camera mode.
- Images and videos captured from PC camera mode are not stored onto the micro SD card, they are stored onto the PC.
- The microscope can be used as a webcam device for microscopic live video.

4.16 Charging the battery

Before using the microscope, the battery must be charged;

1. Plug the small end of the power adaptor into the DC-in port located on the bottom side of the unit. Then plug the other end of the power adaptor into a standard AC outlet. The battery indicator LED at the end corner of the unit will light up red to show that the battery is charging.
2. When the battery is fully charged, the battery indicator LED will turn off. Then unplug the unit.
3. You can now use your microscope continuous for up to four hours. When the battery turns low, there will be a low-power indicator on the right bottom corner of the panel, the front LED light will weaken and image quality becomes poor. Then you have to connect the power adaptor and plug it in to recharge the battery.

4.17 Connecting to a TV

1. Insert the video cable’s 1/8-inch plug into the microscope’s Video port.
2. Insert the RCA plug into one of your television’s yellow video input connectors. Refer to your television’s manual for more information on how to locate these connectors.
3. Turn on the television. If necessary, switch your television to the appropriate input channel. Items You will magnify appear on the television screen.
4.18 Mounting Tripod

1. Put the stand end with screw inside the mounting hole on the microscope properly and rotate carefully. Do not force the end into the hole, forcing may damage the microscope.

2. Adjust the height of the stand at a proper position.

5. MENU INTRODUCTIONS

5.1 Main Menu I

- Press to enter main menu I as follows:

Here you can set Resolution/Timer/Quality/Sharpness.

5.1.1 Resolution

- From the main menu I, choose Resolution and select a resolution between VGA / 1.3M / 3M / 5M / 9M / 12M.

- Press OK to confirm selection.
5.1.2 Timer

- From the main menu I, choose Timer and enter Timer setup:

**Frames**: select quantity of frames you want to take by UP/DOWN and LEFT/RIGHT. The underneath setup indicates 32 frames.

![Frames](image)

**Interval**: select interval time between frame captures by UP/DOWN and LEFT/RIGHT. The underneath setup indicates the interval time is 15 seconds between each two captures.

![Interval](image)

- Press OK to confirm selection and press BACK (19) to go back to preview status. Then press Capture (1) to start auto capture. When at auto capture status, the following sign will appear on the left corner of the screen.
- When all frames are captured, the microscope will return to normal preview again.
- If you need to stop Auto Capture during the capture process, press the Capture button once.

5.1.3 Quality

- From the main menu I, choose Quality and then select among Super Fine/Fine/Normal.

![Quality](image)

- The three selections will result in different image compress ratios.
5.1.4 Sharpness

- From the main menu I, choose Sharpness and then select among Hard/Normal/Soft.

![Sharpness screenshot]

5.2 Main Menu II

- Press \( \text{\textbullet} \) to enter Main Menu I, and then press LEFT to enter Main Menu II as follows:

![Setup screenshot]

Here you can setup Language/Power Save/Frequency/Date Stamp/TV Out/Date and Time/Format SD/ System Reset/Version.

5.2.1 Language

- From the Main Menu II, choose Language and then select a preferred language by UP/DOWN.

![Language screenshot]
5.2.2 Power Save

- From the Main Menu II, choose Power Save and then select a target time for the microscope to power off automatically.

5.2.3 Frequency

- From the Main Menu II, choose Frequency and enter the following menu:

Select the frequency by UP/DOWN

5.2.4 Date Stamp

- From the Main Menu II, select Date Stamp and enter the following menu:

Select Date/Time, Date or Off.
Date/Time: both date and time will be marked on images taken
Date: on date will be marked on images taken
Off: None of date and time info will be marked on images taken.
5.2.5 TV Out

- From the Main Menu II, choose TV Out and select, between NTSC and PAL, the correct mode compatible with your TV.

5.2.6 Date/time

- From the Main Menu II, choose Date/Time to set the date and time.
- Set date and time by LEFT/RIGHT/UP/DOWN
- Set date mode; YY/MM/DD, DD/MM/YY and MM/DD/YY.

5.2.7 Format SD

- From the Main Menu II, choose Format SD to format the inserted MicroSD card.
5.2.8 System Reset

- From the Main Menu II, select System Reset to set the system back to default.

5.2.9 Version

From the Main Menu II, select Version to view the current instrument version.

6. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image sensor</td>
<td>5M high quality Image Sensor</td>
</tr>
<tr>
<td>Magnifications</td>
<td>20x-200x-500x</td>
</tr>
<tr>
<td>Resolutions</td>
<td>12M, 8M, 5M, 3M, 1.3M, VGA</td>
</tr>
<tr>
<td>Lens</td>
<td>High quality microscopic lens</td>
</tr>
<tr>
<td>Display</td>
<td>3inches TFT panel, 4:3 ratio</td>
</tr>
<tr>
<td>Light sources</td>
<td>8 LEDs with adjustable brightness</td>
</tr>
<tr>
<td>Power sources</td>
<td>Li-ion 3.7V / 800mAh battery</td>
</tr>
<tr>
<td>Working time</td>
<td>4 hours; Charging time: 5 hours</td>
</tr>
<tr>
<td>Frame rate</td>
<td>30fps</td>
</tr>
<tr>
<td>Adaptor</td>
<td>Input:100-240V, 50/60Hz; Output: 5V, 1A</td>
</tr>
<tr>
<td>OSD languages</td>
<td>English/Germany/French/Spanish/Italian/Portugese/Japanese/Chinese</td>
</tr>
<tr>
<td>Software languages</td>
<td>English/Germany/French/Spanish</td>
</tr>
<tr>
<td>Measurement</td>
<td>By software</td>
</tr>
<tr>
<td>Size</td>
<td>130x103x29mm</td>
</tr>
<tr>
<td>Weight</td>
<td>(with battery)</td>
</tr>
</tbody>
</table>

7. COMPUTER SYSTEM MINIMUM REQUIREMENTS

- Operating system: Windows XP SP2/Vista/Win7/Win8, Mac 10.6 ~ 10.8
- CPU: Pentium 11 or above
- RAM: 256MB
- Interface: USB port 2.0
## 8. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The microscope won’t turn on</td>
<td>Charge the battery</td>
</tr>
<tr>
<td>The screen is blank</td>
<td>Ensure that the power is on&lt;br&gt;Charge the battery&lt;br&gt;Verify that the item you want to magnify is positioned correctly under the lens.</td>
</tr>
<tr>
<td>There are smudges or blemishes on the screen</td>
<td>Clean the screen and lens carefully with soft fabric</td>
</tr>
</tbody>
</table>
| Microscope is connected to a television, but no image appears on the television screen | Ensure that the television is on.<br>Switch to the appropriate video input channel on your television.  
Ensure that the video cable is securely connected into the Microscope Video-out port and plugged into the correct video input on your television. |
| The battery indicator LED is not in red, even though the power adaptor is connected and plugged into a wall socket. -or- The battery is not charging. | Ensure that the power cable is plugged into the Microscope's DC-in port. 
Ensure that the outlet has power and is not malfunctioning. If the outlet is connected to a wall switch, make sure that the switch is on. |
PORTABLECAPTURE SOFTWARE INTRODUCTION

Computer System Requirements
- Windows XP/VISTA/WIN7/WIN8 & Mac10.6 ~
- 10.8
- P4 1.8 or above
- RAM: 256M
- Video Memory: 32M
- USB port: 2.0
- CD-ROM Drive

1. INSTALLING SOFTWARE

- Insert the driver CD into CD-ROM Drive and automatically the following interface will be displayed:

![Portable Microscope](image)

- Click **PortableCapture software** and then reboot the system when asked.
- You can browse the User’s manual in PDF format and the CD contents by choosing the corresponding menus.

2. STARTING MICROSCOPE

Connect your Microscope to your PC USB port, start the software by clicking the following icon appearing on your desktop after installation, the following screen will pop up;

![Microscope Interface](image)

When the Microscope is disconnected from your PC USB port, the screen will display **“No Device detected, please connect your Microscope directly to your PC USB port”**
3. SOFTWARE INSTRUCTIONS

3.1 Preview Size

You can change the preview size as follows:

Note: The size of the photo taken is equivalent to the preview size selected in the Options menu/Preview Size.

3.2 Rotate Image

You can rotate the output image clockwise and counter-clockwise.

3.3 Date/Time

You can display or turn off Date/Time as follows:
3.4 Language

You can choose your preferred language as follows:

![Portable Capture interface with Language options]

3.5 Full screen

You can enter & quit full screen mode by:
1. Double-clicking the preview area.
2. Clicking the full screen icon:

![Portable Capture interface showing Full screen mode]

3. Choosing **Full screen mode** from menu;

When in full screen mode, click on the Full screen icon to turn off and restore toolbars and menus.

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---|---|---|---
Molenbaan 19 | The Netherlands | fax: +31 (0)10-7900129 | www.tqc.eu
3.6 Capture

Photo capture
You can take photos by the following steps:

• By clicking the camera button
• By choosing Capture and then click Photo
• By pressing F11

Captured photos are saved automatically and image thumbnails will be visible on the right side of the PortableCapture screen for further editing. For editing photos, we refer to later upcoming instructions.

Video capture
You can record video by the following steps:

• Click the video camera button
• Choose from the menu bar Capture and then click Video

When recording, there is a red dot flashing on the video camera button. Your video is saved in AVI format.

To stop video capture:

• Click the flashing video camera button
• Choose Capture and then click Stop capturing

Note: Please note the best pixels for video capturing is 640x480.

3.7 Edit Photos

3.7.1 Preview photos
• Clicking on an image thumbnail will display the image selected in the preview area, with its size displayed on the left-bottom corner.
• You can double click the image thumbnail and an independent preview box will pop up as shown below:
3.7.2. Save photos
You can save a photo by right clicking on the thumbnail and then choose Save.

The file can be saved in either jpeg or bmp. The jpeg size in which the photo is saved is the maximum allowed for jpeg. You can choose to decrease the size by adjusting quality. Click the Advanced button to view and select jpeg save options.

3.7.3. Delete photos
By right clicking and then choosing Delete, you can delete the selected photo or at the independent preview box you can choose delete icon to delete the previewed photo.

3.7.4. Copy photos
Right click on the thumbnail and then choose Copy.

3.8 Edit videos
You can right click the video small icon listed on the right column and then choose Play, Copy, and Delete etc.

Saving video clips directly can be done as follows:

3.9 Quit PortableCapture
How to quit:
1. Point the microscope onto a target object e.g. a ruler; rotate the focus wheel to get a clear focus.
2. When the focus is at the clearest point, take a snapshot.
3. Watch the calibration at the lower-end of the focus wheel; note down the magnification value that corresponds to the indicator marker on the microscope body as shown below. That value is the magnification at which the focus was set and the image taken. (This is very important, since only with the magnification ratio noted down can the object size be worked out at later steps!!)

4. Open the captured photo by double clicking on the thumbnail. A preview window will open.

5. Input the previous noted down magnification ratio into the box indicated at the top right corner of the preview window. (Please note it is necessary to input the magnification ratio noted down on step 3; otherwise the measurement is meaningless.)

6. Now you can measure the size of the whole object or part of the object you have taken, using the available options. Click on the icons on top of the window. Options as follows:

- **Direct line:** click , left-click mouse to choose a start point and drag mouse to an end point, Notice that the measurement is displayed. Release the mouse when done.
• Multi-line: click , left-click mouse to choose a start point and drag to an end point. Notice that the measurements are displayed as you go along. Release mouse when done. You can continue measuring from the previous end point to a next point and so on.

• Circle-radius: click , left-click mouse to choose a start point for a circle; draw the circle to an end point, release the mouse, and the radius of the circle will be displayed.

• Circle-diameter: click , left-click mouse to choose a start point for a circle; draw the circle to an end point, release the mouse, and the radius of the circle will be displayed.

• Angle: click , left-click mouse to choose a start point for an angle, draw the line to another point and then release the mouse to create one line for an angle. Move your mouse to bring out another line of the angle, left-click when the angle is ok. The angle value will then display.

• Unit: click , you can choose the unit at which the measured value will be displayed. Units available are: pixels / inches / km / mt / mm / cm / micro

• Other operations you can carry out on a taken photo taken are:

1. make notes on the photo taken
2. select font, font style, font size etc
3. draw line, box etc on the photo
4. line color
5. line thickness
6. line type
7. undo operation

Note:
- The magnification ratio you are allowed to input starts from 20 up to 200. Do not use any value beyond that.
- The measurement value worked out by the software is only for reference; it may not be 100% correct.
- The measurement function is only available on a Windows Operating System.
5. PORTABLECAPTURE FOR MAC

5.1 Installing PortableCapture
Open *mac* folder from the disc and copy *PortableCapture* onto your desktop for daily use.

5.2 Using PortableCapture
1. Plug Microscope into PC USB port.
2. Double click PortableCapture icon to open the PortableCapture window. The microscope is now ready to use.

5.3 Preview
At the central window, you can preview the magnified subject.

5.4 Preview Size
From *Options*, you can choose the preview resolution. The current resolution will be displayed at the left bottom corner of the preview window. Please note that the preview window size always remains at 640x480 but the current resolution will show at the left bottom corner.

5.5 Date/Time
From *Options*, you can turn the date/time on or off.

5.6 Photo Capture
You can capture photos by:

• Choosing *Capture/Photo*:

• Clicking photo capture icon:

The captured photos will appear as thumbnails on the right side of the preview window.

5.7 Video Capture
You can capture video by:

• Choosing *Capture/Video*:

• Clicking video capture icon:

*Note: After clicking on the icon, the video capture icon will turn red to indicate video clip recording. Click the red icon again, to stop recording!!*

The captured videos will appear as thumbnails on the right side of the preview window under Video tab.
5.8 Edit Photo/Video

Captured photo & video appear as thumbnails on the right side of the preview window.

**Photo**
Double click a photo thumbnail to open in the main preview window

![Photo Thumbnail Preview](image.png)

You can then carry out operations as normally done on a Mac system.

**Video**
Click a video clip thumbnail, the video will play automatically.

5.9 Help info

By choosing *About PortableCapture*, you can get help info from your local agent.

![About PortableCapture](image.png)

5.10 Quit PortableCapture

Choose *Quit PortableCapture* as follows, you can quit the software.
This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.