

◆USB output

Software Installation

* Download the software first:

<https://rb.gy/dmapd0>

<https://bit.ly/33JvL7k>

So far the measuring software “Andonstar” can only support Windows system. If you can't open the links or get problem with downloading these files, please ask customer service to send you separately. You can also go visit our website and download from there.

*System support:

Windows XP SP3, Windows 7,Windows8,Windows10

*Process circumstances :

Microsoft.Net Framework 4.0

Microsoft Visual C++ 2010 Runtime

If there isn't either of the runtimes above mentioned, there would be mistake during installation.

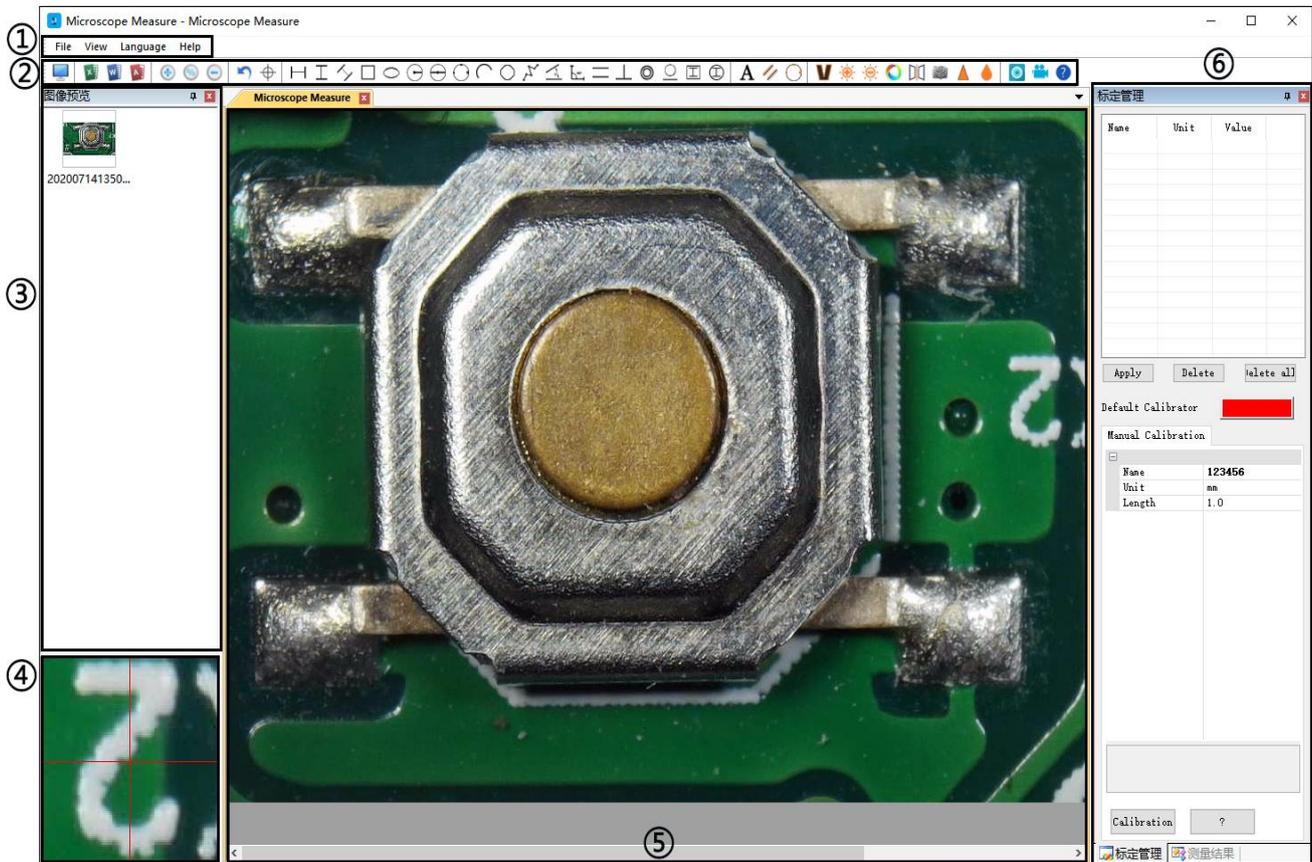
* Open the zip file that you've download and run it.

Software Operation

*Icons Definitions

	Zoom In		Measuring a 3points angle (degree)
	Normal		Distance of parallel lines(Length)
	Zoom out		Distance of a point and a line (Length)
	Undoes the last action		Distance of 2 circles (Radius, length)
	Cross hairs (crosier,4 grid, 8 grid)		Distance of a line and a circle(Radius, length)
	Distance of 2 horizontal points		Add a square mark
	Distance of 2 vertical points		Add a circle mark
	Distance of any 2 points		Add text
	Measuring a rectangular (width,height, circumference&area)		Distance of 2 lines(Length)
	Measuring an ellipse(Long-axis radius, short-axis radius, circumference&area)		3 points circle (radius, circumference&area)
	Measuring a radius circle(radius, circumference&area)		Edge detection
	Measuring a diameter circle (diameter, circumference&area)		Brightness increase/decrease
	Measuring a 3 points circle(radius, circumference&area)		Flip horizontal
	Measuring a 3 points arc (radius,degree, circumference&area)		Sharpen
	Measuring a polygon (circumference&area)		Smooth
	Measuring fold-lines (length)		Take a picture

* Interface Definitions and Functions



① Main menu:

Here, users can open different devices or lead in pictures to observe or edit, do video setting or save setting, choose which windows to show or hide etc.

② toolbar:

Here are the tools that would be useful for users to do measuring and image analysis. Definition and function of different tools would be given in chapter "Icons definitions". Users can choose to hide or show this toolbar in "View→Toolbars and Docking Windows→Standard".

③ Pictures browser:

Here is where users can review all pictures they've captured. Users can also edit the picture by right clicking the picture and open it in the main operating window. Choose "View→Toolbars and Docking Windows→Picture browser" to show or hide this window.

④ Secondary operating window:

The image showing in this window always follows your cursor, and with a bigger magnification. With help of this window, the result of measuring can be much more precisely.

It belongs to window "Pictures browser".

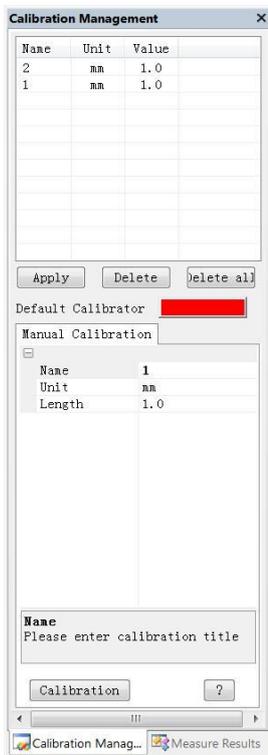
⑤ Main operating window:

This windows shows the full view from the microscope. And it is also the place where users do measuring and image analysis.

⑥ Calibration Management and Measuring Results:

These two windows shows at the same place, users can switch at the bottom of this window.

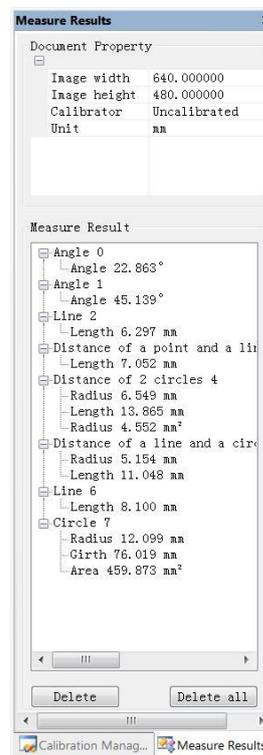
◆ Calibration Management



→ Shows the list of different Calibrations. Users can apply or delete the one they want.

→ Where to set new Calibrators. (The details of how to set calibrator would be given in another chapter)

◆ Measure Results



→ Shows the size of the whole view. Users Can change it in “File→ Videosetting→Video capture pin→(S)”.

→ Shows all results of measuring.

* Operating Steps

1) Material: PC (Windows system, with software " Andonstar "); USB microscope (device name: "Andonstar Camera"), Ruler.

2) Steps:

1, Connect the microscope unit to the computer with the attached USB cable, and select "PC Camera" from the microscope interface using the down keys on the screen or remote control.

2, Open the software "Andonstar".

3, Click "File"→ "Open"→ "Open Device"→ "USB MODE" → "Andonstar Camera".



* Functions

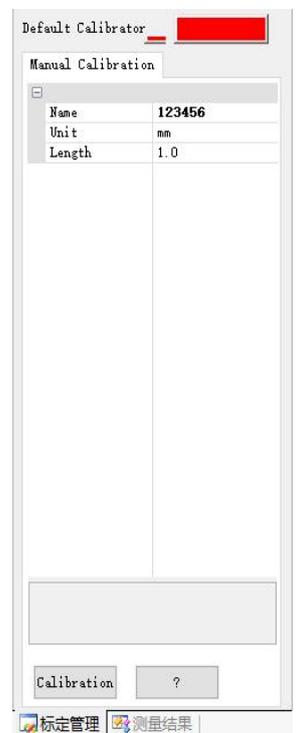
1) Calibration

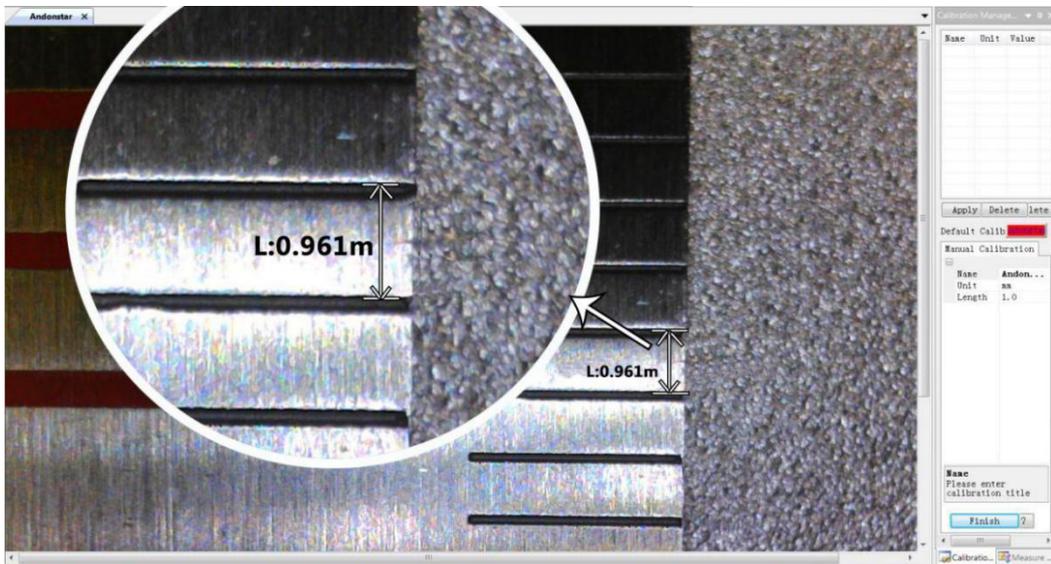
1, Put the ruler under the digital microscope, adjust the focus wheel and the height of the stand, to get the best clearance. (during the rest of the process, do not change the object distance any more).

2, In the "Calibration management" set the name and unit length of the new calibration(refer the picture on the right). Then, click "Calibration", meanwhile, the "I" in the toolbar should have been chosen automatically. If not, please choose it yourselves.

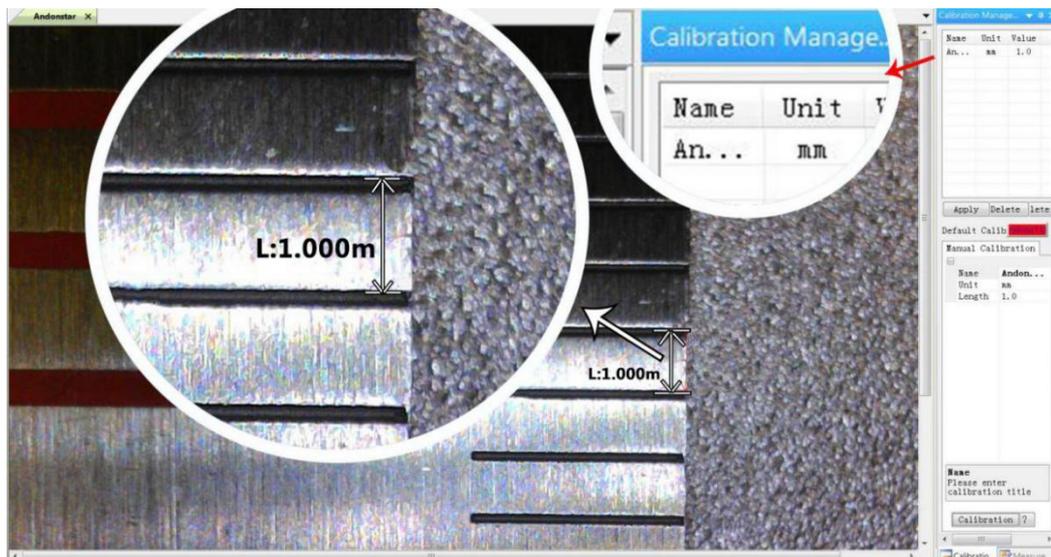
3, Move the cursor to the main operation window, draw a line (the length is the unit length which has been set in step 2) with help of the ruler. After these, click the "Finish" button in the bottom of the "Calibration Management" window.

4, Check. The length of the line you draw in step 3 should become as the unit length. The name of the new calibration should have showed in the list of calibrations.





3)



4)

2) Measuring

- 1, Choose the tool you need to do measuring in the toolbar.
- 2, Click dots or draw lines that you need to measure in the main operating window.
- 3, Place the results of measuring in a proper place around the target.

3) Special Effect

- Includes: Edge detection, Inverse color, Flip horizontal, Relief, Sharpen and Smooth.
- Steps:

- 1, Choose the special effect you need in the toolbar.
- 2, In the main operating window, long press the Left to draw a rectangle which can covers the whole target area, loose the Left, get the special effect result.
- 3, Click Left again, end the special effect.

PS: If you want to use "Flip horizontal", draw a random rectangle in the view, and the whole view would be flipped. Click Left again, end the special effect.

4) Capture and Recording

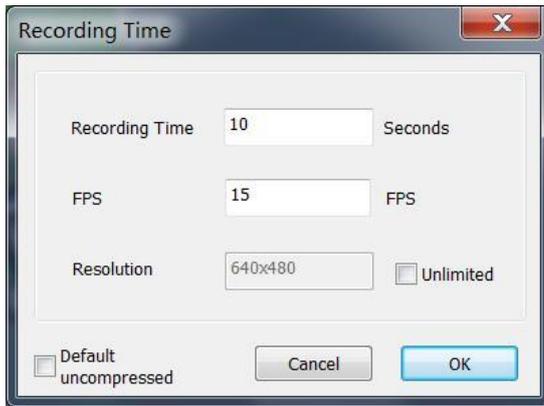
- Capture

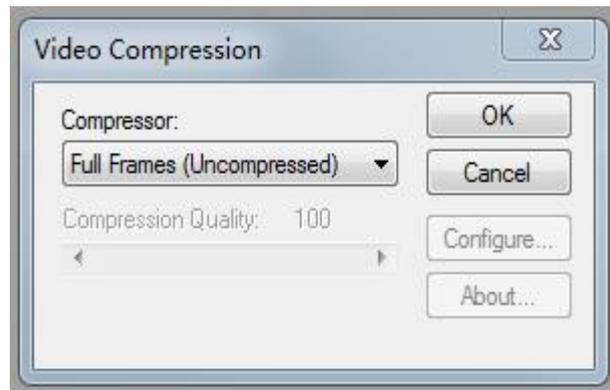
- 1, Click "📷" to capture.
- 2, The result of capture can be checked and deleted in the "Picture browser" window.

3, Check and change the save path: “File→Save Setting→Path”.

•Recording

1, Choose the size of the view as 640*480 in “File→Video Setting→Video Capture Pin→Output size(S)”

2, Click “A screenshot of the "Recording Time" dialog box. It has a title bar with a close button (X). The dialog contains three input fields: "Recording Time" with the value "10" and the unit "Seconds", "FPS" with the value "15" and the unit "FPS", and "Resolution" with the value "640x480" and an unchecked checkbox labeled "Unlimited". At the bottom left, there is a checkbox labeled "Default uncompressed". At the bottom right, there are "Cancel" and "OK" buttons.



3, On the top left corner there shows “recording” and a timer. It means it’s recording.

4, Check and change the save path: “File→Save Setting→Path”.