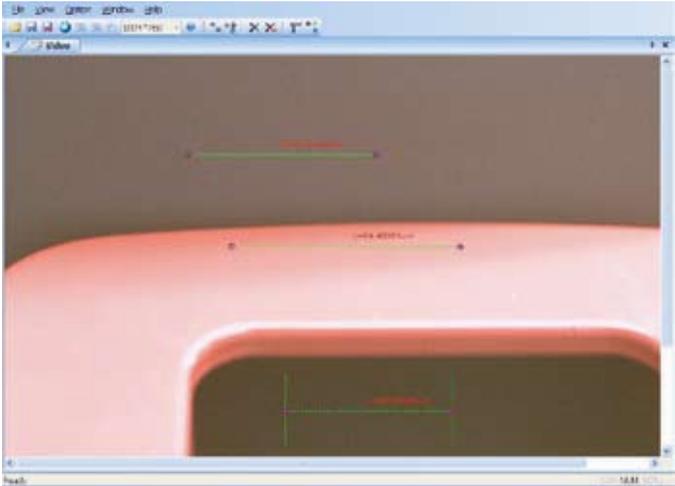
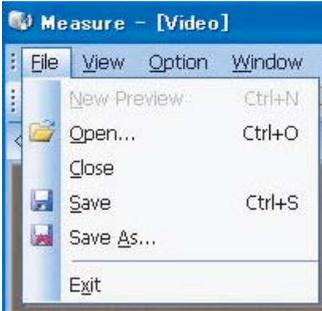


How to use Measurement Software



PC Environment :

- OS: Windows XP, Vista
- CPU: Celeron900MHz or more
- Memory: 256MB (512MB recommended)
* 2GB in case of Windows Vista
- Interface: USB2.0



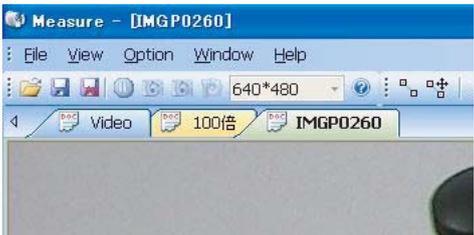
Click "File" command.

New Preview

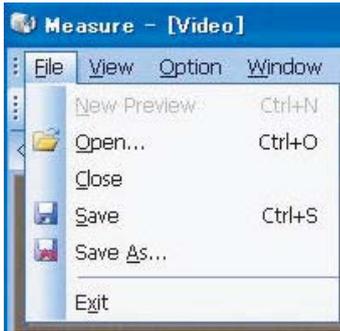
Display a live image when it is not shown on PC.

Open

Load still images in the existing file. You can take measurement on the image.



Live image can be seen at any time by clicking "Video" tag.



Close

Use the Close command to close an active window and remove it from the frame.

Save (* 2)

< AUTO-SAVING FUNCTION >

Click "Save" to save the current window automatically.

* Initial setting is required at "Save Option".

If otherwise, a warning dialog will appear.



Save As (* 1)

Save the current window with a specific file name with measured values.

Exit

Close all the active images to end the application.

(* 1) 「Save As」

- File Name : Name the file.
 File Path : Select save location.
 Image Type : Select the file type.
 Save with : Check the boxes as you like.

- Measure
- Ruler
- Title
- Date/Time



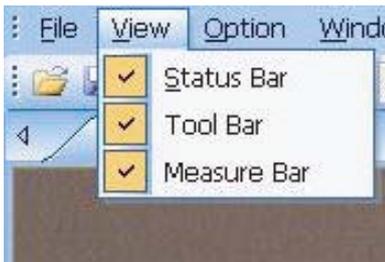


(* 2) 「Save」 Initial setting at "Save Option"

- Prefix : Name the file.
- Start suffix : Sequential No. to start
- Folder : Save location

After the initial setting is made, auto-saving is feasible with "Save" command.

File name is stored as "Prefix" + Sequential No.



Status Bar

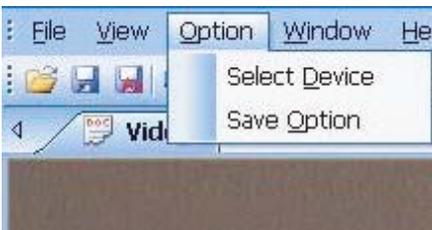
Show or hide status bar.

Tool Bar

Show or hide tool bar.

Measure Bar

Show or hide measure bar.

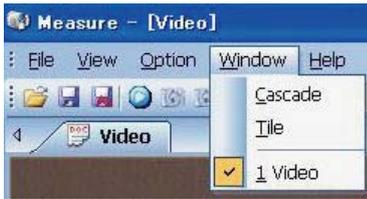


Select Device

Select another supported video device when existing more than one supported video device.

Save Option

Initial setting is made for auto-saving function of "Save" command.

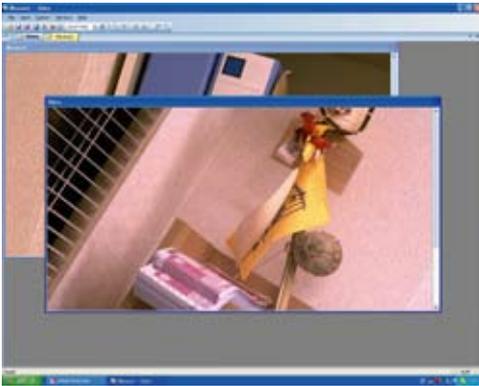


Cascade

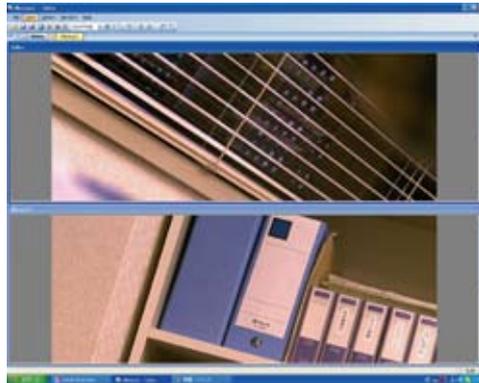
Both live image and still images can be displayed in layers.

Tile

Live image and still images can be displayed in divided layout.



Cascade Display



Tile Display

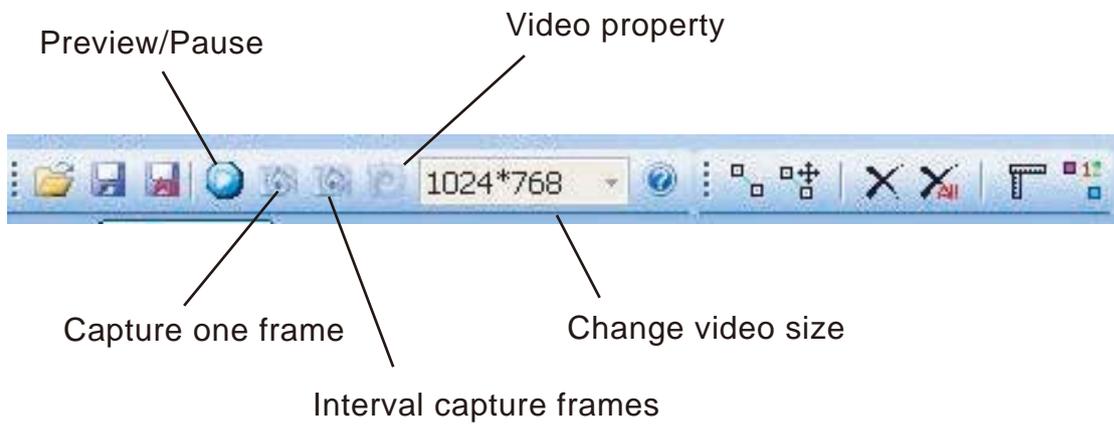


About Measure

Show version.

How to Use

Show user's manual.



Preview/Pause

Switch live image and still image.

Capture one frame

Save an image temporarily on display.

Interval capture image

Shoot still images sequentially at the specific interval and save them automatically.

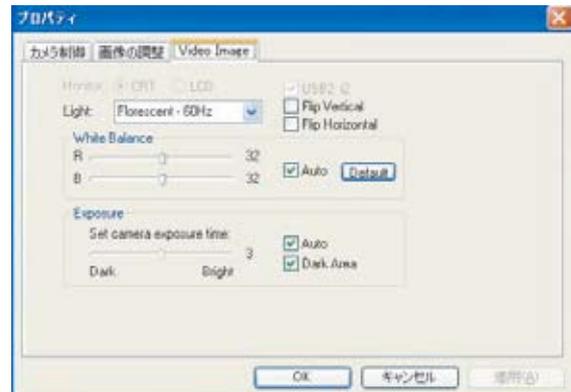
You can set time to start, interval and the number of images to be saved.

Change video size

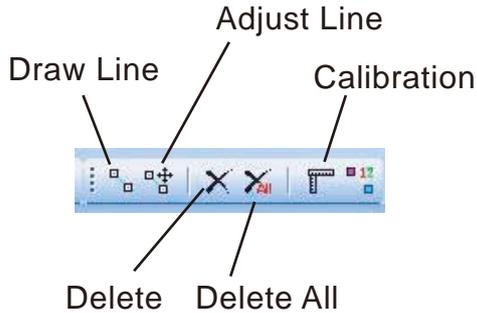
Change frame size.

Video property

Color, contrast, brightness, etc. can be adjusted.



Distance measurement



Calibration

Set calibration on a still image or a pause image



Ruler Unit : Specify the unit out of μ m, mm, cm, dm and inch.

X Ruler Unit : Input X-Ruler value.

Y Ruler Unit : Input Y-Ruler value.

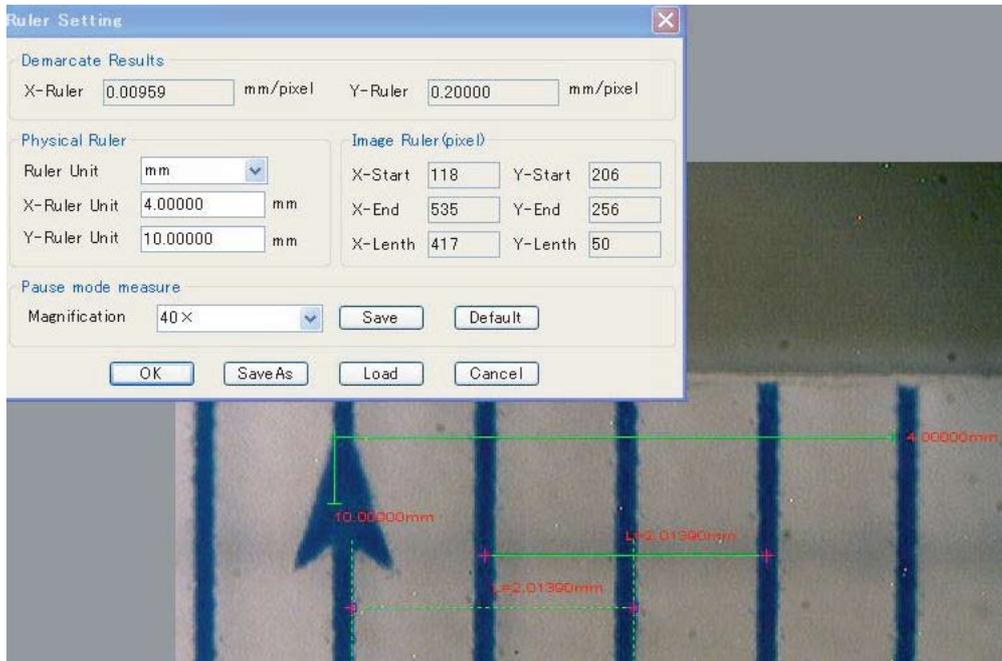
Save : Data saving while using "Magnification" function.

Default : Load the calibration data of "Magnification" function. The value measured on the image will be converted automatically in proportion to the calibration data which has been newly loaded. This function is convenient when you inspect the same object with revolver type microscope.

Save As : The calibration data can be saved under specific file names as many as you want.

Load : Load the calibration data.

OK : Fix the calibration data to execute it.



How to make calibration

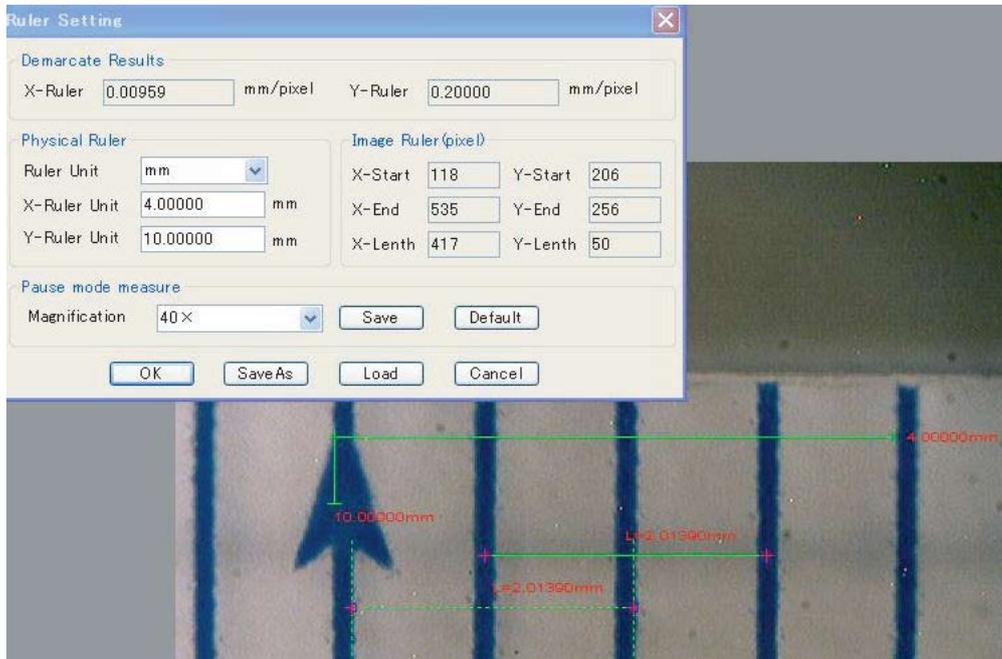
- 1) Click calibration icon to open a window. Then, X ruler and Y ruler appear.
- 2) On the display which captures a scale, move and adjust X ruler by drag-and-dropping either edge of X ruler.
- 3) When both edges of X ruler meet both of the specific scales, input the distance between the scales in "X-Ruler Unit". In the same manner, adjust Y ruler while calibrating vertical scales and input the value in "Y-Ruler Unit".
- 4) Then, click "OK" to complete or "Save As" to save the data into PC.

Distance measurement

After calibration setting, click "Draw Line" icon on toolbar. Then, the mouse pointer shows "+" mark. Drag it from the edge of object to be measured to the other edge and drop it. The measured value will be displayed.

Adjust / Delete

- Adjust : Click "Adjust" icon and place the mouse pointer on the edge of the line. Then, the solid line turns into a broken line and makes it possible to adjust.
- Delete : Click "Delete" icon and place the mouse pointer on the edge of the line. Then, Click to delete it.
- Delete All : Click "Delete All" icon to delete all the lines drawn.



"Magnification" Function

This function is only usable on a posed image, but not on a captured image.

"Magnification" function features 5 different settings of calibration to be memorized.

It is convenient if you want to convert calibration setting frequently.

It is not necessarily required to make this setting unless you use different calibration settings.

= Setting =

Select a file name out of 10X, 20X, 40X, 60X and 100X. After calibration setting, click "Save" and then "OK". The calibration data can be recorded in the selected file. In the same manner, you can save different settings up to 5 at maximum.

The file name, for example 10X, has nothing to do with the magnification.

But, you can not change the file name besides what are shown in the pull-down box.

= How to use =

Select the specific file name in the pull-down box and click "Default".

Then, the measurement data will be converted automatically according to the calibration setting recorded in the file.

= Note =

If you want to save calibration setting under a specific file name, please make use of "Save As" and name the file as you desire.

Video Property Adjustment



Video property

Click "Video property" icon and press "Video Image" tag to open the following window.



= White balance =

Check "Auto" of White Balance.

If you desire color adjustment, uncheck the box and slide the R bar (Red level) or B bar (Blue level).

= Exposure =

Luminosity adjustment is made automatically or manually.