C003 digital textile density analysis instrument user manual

Thank you for purchasing SUPEREYES high-precision digital textile density analysis instrument. To use it smoothly and quickly, please read this instruction carefully.

Product usage

C003 digital textile density analysis instrument is designed to test the yarn density of woven fabric, woven silk, screen cloth and knitted fabric automatically and precisely.C003 is also used to measure the thickness of single yarn and the dimension of fabric core. Data is saved by generating reports instantly.

Parameters

Sensor: 2.0 Mega pixels

Illumination: 4 Led lights

Focusing: manual focus

Compatible system: Win XP, Win 7/8/10/32/64

Interface: USB 2.0

Material: E-coating metal

Language: English, Chinese

Important cautions

1. This product is precise instrument, please don't disassemble it to avoid damage;
2. Please don't use this instrument under high temperature and humidity environment.

Standard configuration

C003 digital textile density analysis instrument

Disk of software and user manual

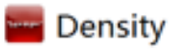
Printed user manual

Installation

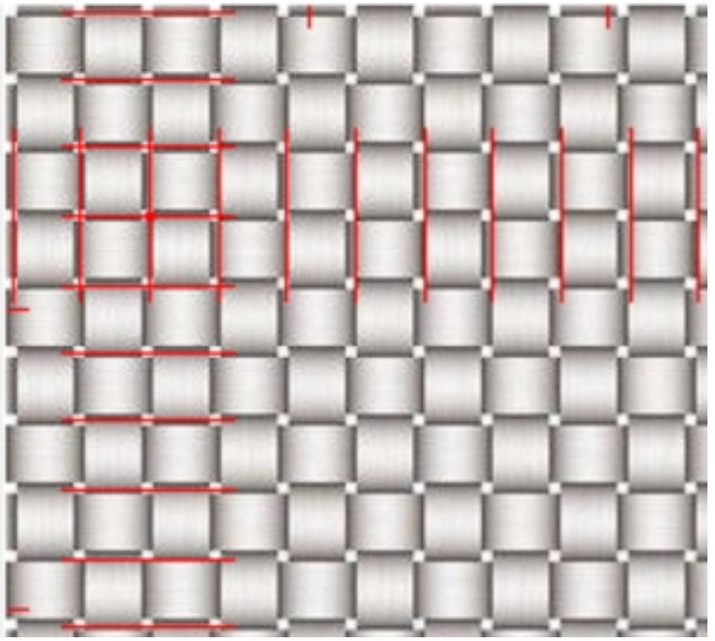
Please copy the whole file of“density_v170721” in the disk to computer and click the “ Density” to run the application software.

Application

1. Plug C003 to computer and put it onto fabric object;

   Run the software 

2. Rotate the central knob to adjust magnification
3. Rotate focus knob to get clear image
4. Please try to keep the fabric warp and weft yarn horizontal and vertical
5. Density measurement



1) Double left-click mouse and cursor turns to 

2) Density measurement:

   a. Select **characteristic and smaller warp and weft cross** and left click mouse to generate the first dot; Then select the second cross under the same standard and left click mouse to generate the second dot and warp & weft scale lines.

   b. Observe weft scale lines; if each scale line doesn't match each characteristic dot, then

   c. Move mouse onto the scale line; when cursor turns to  , left-click mouse (or use direction key) to drag the scale line to make sure that each line matches each scale line; weft density value shows on the right of the preview window. Warp density value will be get in a similar way,

3) Rotation: If warp and weft scale lines are inclining, when cursor turns to  , left-click mouse to drag the scale line to make sure that each line matches each scale line; it's helpful to observe.

4) Return: right-click mouse to return to  and restart the measurement; double left-click to return to preview.

Before measurement, we strongly suggest getting operation experience by reading image 1 and 2.

1. Warp unit, weft unit
   Apply to multilayer or high density fabric textile; Warp density= warp scale lines X warp unit; weft density= weft scale lines X weft unit. (Beginners please ignore this part)
2. Read image

Reading image is for analyzing the previous images. (Images were saved by generating report.)

3. Customer name or analyst

   Select: pull down menu and left-click mouse to select

   New Customer name: input directly and save by generating report

   Modification: modify in customer blank directly and save by generating report

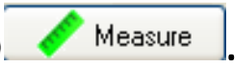
   Delete: pull down menu, select name and right click mouse to delete.

4. Report number

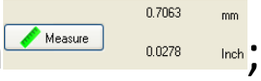
   Generate automatically by system according to time and customer name.

5. Length measurement

   a. Click 

on the lower right corner and it turns to 

. Double left-click mouse and cursor turns to 
.

   b. Select 2 random dots to get the length 

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   c. Use direction key to move and select the dots. Right-click mouse to return to 
.

   d. After length measurement, click 

and return to density

measurement stage.

Remarks:

During density measurement, please make sure that it's not in length measurement stage, otherwise, it can only measure length between 2 dots, not warp and weft density.

6. Language
7. Selectable by menu.
8. Set color

   Click color section to set color for cursor, dot and line. 
9. Image settings

   Set luminance and contrast ratio to get appropriate image.