

DOTSCOPE MINI

PRODUCT DESCRIPTION

SOPRIN
solutions for the printing industry

The DotScope mini defines a new performance class under the microscopes for gravure printing. All components are tuned for maximum productivity. Measurements can be performed and stored without the instrument must be placed out of hand.

The measurement is generally carried out automatically in a quality not previously known on the market, so that operator intervention can be kept to a minimum. Due to the special mechanical structure of the device, it is often not necessary to refocus.

With two buttons on the device, the DotScope mini can carry out the functions „take image and measure automatically”, „save measurement” and „live image” so that the microscope does not have to be put out of hand for successive measurements. This makes the workflow very efficient. The saved measurements can be loaded again later, checked and, if necessary, corrected or supplemented.

Particularly quickly you can work with series measurement. Here you can preset how many measurements are to be carried out in the X x Y layout. Do you have e.g. a cylinder with 12 color shades, each with 10 print densities, so you preset 12 x 10 measurements. Now you can carry out the 120 measurements with the DotScope without placing the device out of hands. The result is a table with 12 x 10 average measurements per measurement. By clicking on the respective table field, the corresponding measurement is opened, can be checked, corrected if necessary and saved again. Experience shows that this means that work can be done faster by a factor of 5 than with previously known measuring devices.

The DotScope mini is robust, very light and easy to use, ideal for daily use under production conditions. The integrated xy adjustment helps to find special details in the engraving. The y-adjustment has an infinite adjustment range, ideal for measuring dragging effects.

The measurements can be saved and processed later, i.e. e.g. additional geometry measurements can be carried out. JPG images can be saved for documentation purposes or for quick e-mailing. Certificates can be generated that are highly configurable:

The logo can be exchanged, user-specific fields can be defined and several images / measurements per certificate are possible. In addition, the layout can be changed and, if necessary, it can also span several pages. It is also possible to export measurements to an external database.

Thanks to the nosepiece with three lenses, you can quickly switch between different measurement tasks. This saves you the hassle of fiddling with other lenses. Also you can change the lens without losing the measurement position.

The DotScope 3D is only connected to a PC via USB. No further (supply) lines are required.



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TECHNICAL DATA

- Image resolution: 768 x 576 pixel
- Roll diameter: From 60 mm to flat
- Optics:

Lens	Max. measuring field	Min. optical resolution
5x NA 0,1	1400 x 1060 μm^2	1,10 μm / pixel
10x NA 0,25	700 x 530 μm^2	0,55 μm / pixel
20 x NA 0,3	350 x 260 μm^2	0,27 μm / pixel

- Weight: 2,9 kg
- Maximum vertical scan range: 1800 μm , optional other ranges possible
- Environmental conditions:
 - Operating temperature: 15°C - 35°C
 - Storage temperature: 10°C - 40°C
 - Humidity: 30% - 60%
- Minimum PC requirements:
 - Operating System Microsoft Windows 7 / Windows 10
 - Intel / AMD x86 oder x64 processor
 - 4 GB RAM
 - Screen resolution 1024x720
 - 2 free USB 2.0 ports
- Recommended PC requirements:
 - Processor e.g. Intel Core i5, > 2 GHz
- Data export: .m2d, .m3d (measurement with all measured data), .jpg, .x3p
- Illumination: Coaxial and radial LED illumination
- Cable lenght: Optionally 2m, 3m or 4,5m
- Included in delivery: DotScope camera with 3 lenses, DotScope software on USB stick, dongle, USB cable and transport case

