Mobile USB microscope



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Mobile USB microscope

Cellcheck CIL-USB



How can you get a four square meter workpiece under a metallurgic microscope? The solution to this problem is the Cellcheck CIL mobile USB measuring and inspection microscope. The Cellcheck CIL is always supplied with a stable MST stand. This allows secure positioning on flat material and on drums. The stand feet are coated

with silicone-free synthetic material. A knurled bronze screw allows the stand roller positioning distance to be adjusted variably. This ensures the required object distance particularly at small magnification factors.

The 1600 x 1200 pixel USB 2.0 camera offers perfect images, comparable to those from high quality metallurgic microscopes.







Image examples made with LED ring light and coaxial illumination (polymer printing plate and intaglio printing cylinder).



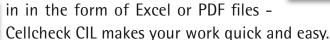




Lenses with magnification factors of 2x, 4x, 6x and 10x are included. The magnification factor based on a 17 inch PC monitor can be calculated by multiplying the magnification factor of the lens by 45. For example a 10x lens displays the measured point at a magnification of 450x. 15x, 20x and 30x lenses are available as options. A strong white LED provides coaxial illumination. The coaxially directed light eliminates all undesired reflections, which could lead to

misinterpretations and erroneous measurements. We also offer IR, green and red LED's. The power is supplied by the USB camera An additional LED ring light is also included. The nine LED's arranged at an angle of 30° offer perfect illumination for all applications requiring diffuse light. The Metric PE or Metric MT software provides for documentation. Regardless of whether images are only to be stored or whether the image and measuring results are to be documented





The software can be installed on as many computers as desired, and enabled by the USB camera, allowing the system to be used by a





The MST stand can be equipped with rolling stand feet as an option. For example in the field of solar production, e.g. on thin film modules, the measuring points located in a line can be sighted considerably faster and more conveniently.

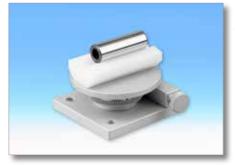


The unit is delivered in a small, plastic transport case well suited for mobile use in field service.



An additional stand with 25 x 25 mm cross table and optional rotation table is available to allow the Cellcheck CIL to be used as a laboratory system (shown with depth measurement equipment in Fig. at bottom right - see Cellcheck CIL-ZX). This stand is very useful when performing depth

measurements on small parts. In such applications the parts can



be positioned precisely with the cross table. Further optional accessories include the two V-blocks, which can be inserted into the rotating table using a fitted pin in the bottom. This allows applications such as quickly and reliably measuring the depth of scratches on round parts without investing a

great deal of time. The Cellcheck system is also suitable as a mobile laboratory for measuring polished micrograph sections. In this configuration the Cellcheck CIL system is supplied in a prestigious aluminium case, with recesses for the optional stand.



Matrix for Cellcheck CIL-USB

The field of view is specified in the horizontal direction. The magnification factor is based on a 24" screen (measured diagonally). All length dimensions are in mm. The USB 2.0 camera has a resolution of 1600 x 1200 Pixels (1/2" Chip). Divide the visible area in microns by 1600 to determine the pixel size.

Tube length	Objective lens	2x	4x	6x	10x	15x	20x	30x
120 mm	Working distance in mm	33	18	11	6	9	6	4
	Field of view in mm	2.4	1.2	0.82	0.5	0.33	0.23	0.17
	Magnification	90	170	260	430	640	840	1230

Order no.	Description	Price excl. VAT.			
Cellcheck CIL-BE	System price Metric BE (Free updates via Internet download)	3,750.00 €			
Cellcheck CIL-PE	System price Metric Standard (Free updates via Internet download)	4,220.00 €			
Cellcheck CIL-MT	System price Metric MT (Free updates via Internet download)	5,150.00 €			
CV-0M-150	Lens, 15x	180.00 €			
CV-0M-200	Lens, 20x	270.00 €			
CV-0M-300	Lens, 30x	370.00 €			
MST-R	Upgrade with rolling stand feet	300.00 €			
ST-CIL	Stand with cross table 25 x 25 mm	890.00 €			
ST-CIL-RT-85	Same as previously, however, with additional rotation table	1,290.00 €			
Delivery:	Incl. packaging, freight charges see www.m-service.de				
Payment:	30 days, net				