

Competence creates Confidence.



• Model no. H3022

## MICROSCOPE AND DIGITAL CAMERA

According to the method for the assessment of the degree of pigment and carbon black dispersion in polyolefin pipes, fittings and compounds, a microscope is required to examine the particles and agglomerates in the test sample. The digital camera is used to digitise the microscope images for analysis, documentation and archiving. The digital camera is supplied with image processing software and a PC.

ISO 18553

ASTM D 5596



Evaluation  
via software

**Standard features**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>Detailed, illustrated documentation ensures simple operation</li> </ul> | <ul style="list-style-type: none"> <li>All components are specially selected and optimised for determining pigment and carbon black dispersion</li> </ul> |
| <ul style="list-style-type: none"> <li>High-quality unit components guarantee a long service life</li> </ul>   | <ul style="list-style-type: none"> <li>Evaluation of measured quantities of particles and agglomerates using software</li> </ul>                          |
| <ul style="list-style-type: none"> <li>CE conformity</li> </ul>  |   |

**Software features**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>Analysis of particles and pores</li> </ul>                                      | <ul style="list-style-type: none"> <li>Image acquisition and generation of offline image series</li> </ul> |
| <ul style="list-style-type: none"> <li>Composition of panoramic images from any number of individual images</li> </ul> | <ul style="list-style-type: none"> <li>Quantitative analysis of object populations</li> </ul>              |
| <ul style="list-style-type: none"> <li>Export of measurements to Microsoft® Excel</li> </ul>                           |  |

**Accessories MICROSCOPE AND DIGITAL CAMERA**

Product	Description	Model no.
	Microtome	H3009

**H3022-0007**  
 with  
**H3022-0017**

**Version**  
**MICROSCOPE AND DIGITAL CAMERA**

**Microscope**

Phototube	Binocular 30°/23 (50:50)
Stand	With manual stage focusing
Coarse drive	2 mm/revolution
Fine drive	0.2 mm/revolution 2 µm scale interval
Lifting range	Max. 25 mm
Height stop	Mechanically adjustable
Nosepiece	Multiple nosepiece (encoded) with the following lenses: 5 x 0.12 10 x 0.25 20 x 0.45
Encoding	Readable via PC
Light source	Halogen lamp
Achromatic-aplanatic universal condenser	With swivel-type front lens
Changing the lens	Manually via nosepiece

**Digital camera incl. software**

Max. resolution	Pixels	2448 x 2048
Frame rate	fps	Max. 37
Exposure time		27 µs – 2000 ms
Data transfer		USB 3.0 Micro-B

**General**

Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity	%	Max. 70 Non-condensing
Width x depth x height	mm	300 x 721 x 505
Weight	kg	Approx. 20
Voltage data		100-127 V, 200-240, 50/60 Hz Special voltages on request