



metkon[®]
Technology behind Specimen



**BINOCULAR STEREO
ZOOM MICROSCOPE**

**PST
902**

PST 902 is advanced CMO Stereozoom
microscope.



DESIGN

Head: Binocular, 360° rotating on all stands and 30° inclined.

Interpupillary distance: Adjustable between 52 and 75 mm.

Dioptric adjustment: On both eyepieces.

Working distance: 80mm (with 1x objective)

Eyepieces: WF10x/24 mm, high eye-point.

Body: Parfocal achromatic zoom 0.8x...6.4x (zoom factor 8:1).

Zoom positioning: By click-stop mechanism

Objective lens: Plan Achromatic 1x.

Stand: Large plain stand, fixed arm type, with LED illumination, coaxial coarse and fine focusing knobs

Optical system: Galilean (Parallel, infinity corrected).

Dimensions: Height (mm) 600 (at highest point), (mm) 500 (at lowest point)

Width (mm) 330

Depth (mm) 290

Weight: 8 kg



LED illumination source



PST

902

PST 902 is advanced CMO Stereozoom microscope. CMO (Common Main Objective) stereo microscopes have the ability to collect more light than the Greenough design and feature greater optical aberration correction. The Greenough design, introduced in the early twentieth century, consists of two identical, symmetrical optical systems each containing a separate eyepiece and objective, arranged in careful alignment with a single housing.



Large plain stand, fixed arm type, with LED illumination, coaxial coarse and fine focusing knobs

The two optical paths are arranged at a precise angle, due to which they converge to the point that determines the working distance and thus the focal length. This design allows high numerical apertures because the objectives are very similar to those used in compound microscopes. The lower section of the microscope contains the objectives, while the upper end of the body tubes projects an image to the eyes.

CMO stereo microscopes, unlike Greenough stereo microscopes, are by definition instruments whose optics are infinity corrected. This allows you to easily introduce accessories such as beam splitters or aperture diaphragms thanks to which you can get a greater depth of field.

ORDER NO: 60 07

- 62 71** - Eyepiece (pair) WF15x/16 mm, with dioptric adjustment & rubber cup
- 62 72** - Eyepiece (pair) WF20x/12 mm, with dioptric adjustment & rubber cup
- 62 73** - Micrometric eyepiece WF10x/24 mm, with dioptric adjustment & rubbercup
- 61 71** - Objective 0,3x(w.d. 280mm)
- 61 72** - Objective 0,5x(w.d. 118mm)
- 61 73** - Objective 2x(w.d. 32,5mm)
- 60 74** - Photo adapter for IMAGINE HARDWARE SET, 0.5x focusable
- 60 69** - Special protective glass, PST 902
- 60 66** - Cleaning kit

FEATURES & BENEFITS

Large Stand With LED Transmitted And Incident Illumination

Modern, large plain stand equipped with LED transmitted and incident illumination, both with intensity control. It comes complete of head holder and coaxial coarse and fine focusing system. Base size: 330x290 mm. Height: 40 mm. Fixed arm height: 340 mm.

Good Optical Performance With Plan Achromatic High Quality Objectives And Parfocal Achromatic Zoom

PST 902 has 1x Plan Achromatic standard objective along with WF10x/24 mm eyepiece. 0.3x, 0.5x, 2x Plan Achromatic objectives and WF15x/16 mm, WF20x/12 mm eyepieces are optionally available to view specimen with different magnifications. Parfocal Achromatic Zoom with 8:1 zoom factor provides 0.8x-6.4x stereo zoom. Click-stop mechanism ensure zoom positioning system.

Good Eyesight For Good Image Analysis

WF10x/24 standard eyepiece for large specimen view with high working distance. Comfortable rubber cup to get rid of annoying external light. High eye-point for glasses wearers, dioptic adjustment (left eyepiece) to compensate for differences between two eyes. 52-75mm interpupillary adjustment to compensate distance difference between two eyes.

Coarse And Fine Focusing

Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Monitoring The Image Instantly

Trinocular port with beam splitter for most light-demanding needs to be always updated with the latest technology cameras.

Eyeiece	10 x		15 x		20 x	
Field Number (mm)	24		15		10	
Objective	Total Magnification	Field of view (mm)	Total Magnification	Field of view (mm)	Total Magnification	Field of view (mm)
0.3x 280mm	2.4x-19.2x	100.00-12.50	3.6x-28.8x	62.50-7.81	4.8x-38.4x	41.67-5.21
0.5x 165mm	4x-32x	60.00-7.50	6x-48x	37.50-4.69	8x-64x	25.00-3.13
1x 80mm	8x-64x	30.00-3.75	12x-96x	18.75-2.34	16x-128x	12.50-1.56
2x 32.5mm	16x-128x	15.00-1.88	24x-192x	9.38-1.17	32x-256x	6.25-0.78

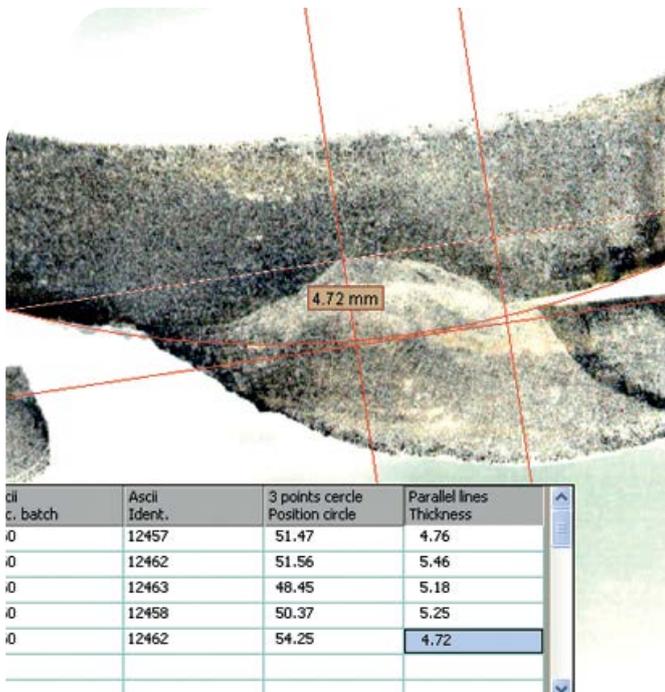


IMAGE ANALYSIS

MESURA 200

IMAGIN MESURA 200 allows you to view the live microscope image, compare it with stored images and if necessary save it to the system. Several databases can be created according to the customers, projects, materials or specimens.

IMAGIN MESURA 200 has several measurement tools for performing manual measurements of lines, curves, angles, areas etc. after which they can be saved and archived. Many application areas exist like "Weld Assessments, Macro analysis, PCB component measurements etc.

With 'Annotation' facility, it is possible to add comments, graphics, arrows etc. directly on the image allowing you to label specific areas of interest.

IMAGIN MESURA 200 allows you to design your own template or select one of METKON's standard templates for "Report Generation" where the text and images are automatically placed. When required, it is also possible to transfer data directly to Excel for further processing.

IMAGIN Hardware Set

CMOS Color Camera, Resolution 5.0 M. Pixels with Interpole Mod USB2 - PC Interface, C Mount - Microscope Interface. Including DUROLINE, IMM or PST adapter according to application.

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IMAGIN MESURA 200

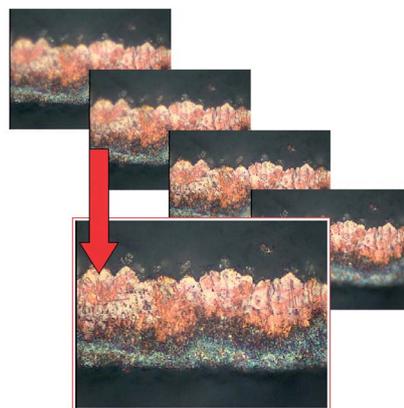
Image capture, Image archiving, Image enhancement, Calibration, measure Length, thickness, width, angle, radius, curve perimeter, area. Multi Image Alignment, Multi Focus Function. Phase content analysis, Add Text & Marker Arrow and Calibration Scale, Image annotation, Image report generator, Automatically measurements and threshold function, Direct transfer to Excel.

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IMAGIN GRANO 200

Image capture, save and calibration, Grain sizing software in compliance with ASTM E1382 / E112 and EN ISO 643, Horizontal, vertical, diagonal or circles interception methods. Instant detection of Grain Boundaries, Powerful report generator, Direct transfer to Excel.

ORDER NO: 66 04



* Other voltages and frequencies available upon request. Please state when ordering. All specifications are subject to change without notice.



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