



MC SERIES PRECISION MEASURING MICROSCOPE SYSTEMS

MEIJI's MC Series modular, measuring systems are composed of high quality metallurgical microscope components, precision X-Y stages and durable heavy-duty stands. The MC Series measuring microscopes are available with 2-axis and 3-axis electronic digital readouts. (Readouts can be set for English or Metric measurements.)

Systems can be configured for use with 35mm photomicrography, CCD video and digital still camera systems. Operators can perform visual inspection and measurement of small parts and components without complicated system preparations. The MC Series systems are available in 110 or 220/240 voltage.

Magnification range with included optics:

50X, 100X, 200X & 400X

Magnification range with optional optics:

500X, 600X & 1000X



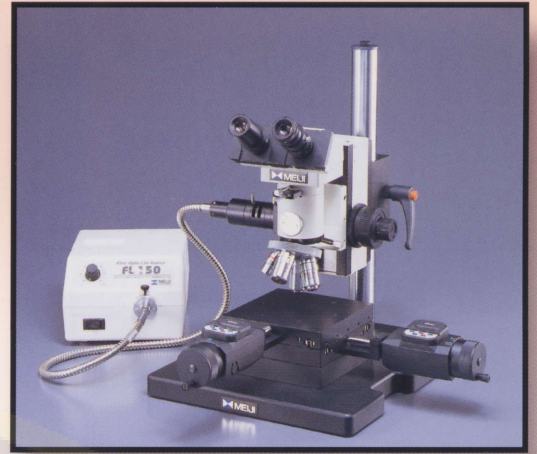
Model MC-50 with CK3900 1/2" CCD Color TV camera.

("C" mount adapter is required. Digimatic micrometer heads are optional.)



MODEL MC-40

Reflected light
Measuring
Microscope with
erect image
Binocular head



MODEL MC-40T

Transmitted light
Measuring
Microscope with
erect image
Binocular head
(Convertible to
reflected light by
inserting light guide
into vertical
illuminator tube)



MODEL MC-50

Reflected light
Measuring
Microscope with
erect image
Trinocular head



MODEL MC-50T

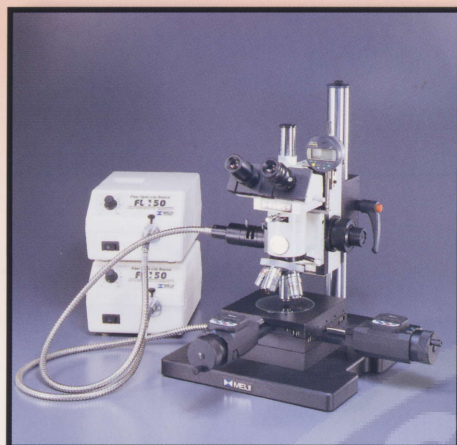
Transmitted light
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Microscope with
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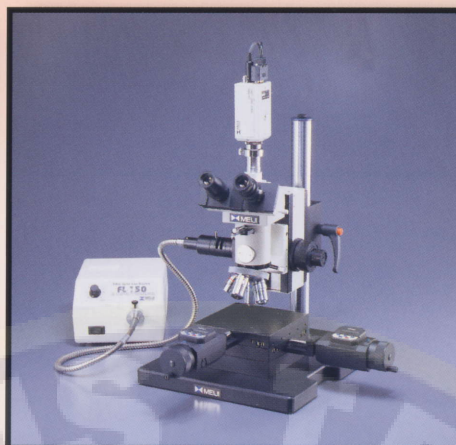
MC Series

PRECISION MEASURING MICROSCOPE SYSTEMS

Note: MT1164-162 Digimatic micrometer heads for X-Y axis movement are optional.



The above picture shows the MC Measuring Microscope with MT1543-252B MITUTOYO Digital indicator. (MA807 Mounting bracket is required to mount the digital indicator.) This microscope is a specially configured model with two illuminators for vertical and transmitted light.



The above picture shows the Model MC-50 with CK3900 1/2" CCD Color TV camera. ("C" mount adapter is required.)



The above picture shows the Model MC-50 with NIKON Digital camera Coolpix 950 (MA151 Digital camera adapter is required.)

MC Series STANDARD SPECIFICATIONS:

| | CAT. No. | MODEL | MC-40 | MC-40T | MC-50 | MC-50T |
|--------------|------------------------|---|-------|--------|-------|--------|
| Viewing Head | MA657/05 | Erect image Binocular head with depolarizer | ■ | ■ | | |
| | MA655/05 | Erect image Trinocular head with depolarizer | | | ■ | ■ |
| Eyepieces | MA413CF | Focusing Eyepiece HWF10X-FF. with cross-line reticule, with set screw | ■ | ■ | ■ | ■ |
| | MA406 | High eyepoint eyepiece HWF10X, F.N.: 18, Eyepoint: 24mm | | | | |
| Objectives | MA330 | Objective, S.Plan M5X, N.A.0.10, W.D. 20mm | | | | |
| | MA337 | Objective, S.Plan M10X, N.A.0.25, W.D. 9.4mm | ■ | ■ | ■ | ■ |
| | MA338 | Objective, S.Plan M20X, N.A.0.40, W.D. 5.28mm | | | | |
| | MA339 | Objective, S.Plan M40X, N.A.0.65, W.D. 0.81mm | | | | |
| Illuminator | MA806 | Infinity corrected vertical Koehler illuminator, focal length 200mm, with sliding rotatable polarizer. Filter set: Blue Clear, Green Clear, Neutral Density ND8, and Polarizing filters in metal mounts. Port to accept FL150/12 flexible 36" (914.4mm) single arm fiber optic light guide. | | | | |
| | FL150/12 | Flexible 36" (914.4mm) single arm fiber light guide for MA806 | ■ | ■ | ■ | ■ |
| | FL150/50 | Focusing lens for FL150/12 | | | | |
| | FL150/115 or FL150/200 | Light source: 115V, 50-60Hz halogen lamp, 21V150W Light source: 230V, 50-60Hz halogen lamp, 21V150W | | | | |
| Focus Block | FU1010 | Coaxial coarse and fine focus block with quadruple ball bearing nosepiece | ■ | ■ | ■ | ■ |
| Stand | MAC-11 | Heavy duty stand with pillar and mounting bracket Diameter of pillar: 38mm, Height: 432mm, Base: 300 x 300 x 25mm | ■ | ■ | ■ | ■ |
| Stage | MA728 | Reflected light measuring stage: 150mm x 150mm with 50mm x 50mm X-Y movement, with mounting brackets for digital micrometer heads | ■ | | ■ | |
| | MA729 | Transmitted light measuring stage: 150mm x 150mm with 50mm x 50mm X-Y movement, with glass stage plate, mounting brackets for digital micrometer heads | | ■ | | ■ |

Note: MT1164-162 Digimatic micrometer heads for X-Y axis movement are optional.

VIEWING HEADS

- MA657/05** Erect image binocular head with depolarizer
(Included in the Models MC-40 and MC-40T)
- MA603/05** Trinocular head (non-erect image) with depolarizer
- MA655/05** Erect image trinocular head with depolarizer
(Included in the Models MC-50 and MC-50T)
- MA403** Inclined monocular head

EYEPIECES (DIN)

- MA413CF** Focusing Eyepiece HWF10X-FF with cross-line reticule, with set screw
(Included in the Models MC-40, MC-40T, MC-50 and MC-50T)
- MA406** Widefield eyepiece, HWF10X, F.N.: 18.0mm, Eyepoint: 24mm
(included in the Models MC-40, MC-40T, MC-50 and MC-50T)
- MA407** Widefield eyepiece, KHW10X, F.N.: 20.0mm, Eyepoint: 22mm
- MA408** Widefield eyepiece, HWF15X, F.N.: 12.2mm, Eyepoint: 15mm
- MA409** Widefield eyepiece, HWF20X, F.N.: 9.0mm, Eyepoint: 9mm
- MA413** Focusing eyepiece HWF10X-F
- MA414** Filar micrometer eyepiece with Inclined monocular head
- MA584** Protractor eyepiece 10X

OBJECTIVES

(INFINITY CORRECTED, PARFOCAL DISTANCE: 45MM)

- MA336** S.Planachromat M4X, N.A.0.10. Working Distance: 20mm
- MA330** S.Planachromat M5X, N.A.0.10. Working Distance: 20mm
(included in the Models MC-40, MC-40T, MC-50 and MC-50T)
- MA337** S.Planachromat M10X, N.A.0.25. Working Distance: 9.4mm
(included in the Models MC-40, MC-40T, MC-50 and MC-50T)
- MA338** S.Planachromat M20X, N.A.0.40. Working Distance: 5.28mm
(included in the Models MC-40, MC-40T, MC-50 and MC-50T)
- MA339** S.Planachromat M40X, N.A.0.65. Working Distance: 0.81mm
(included in the Models MC-40, MC-40T, MC-50 and MC-50T)
- MA722** S.Planachromat LWD M40X, N.A.0.45, Working Distance: 5.8mm
- MA344** S.Planachromat M50X, N.A.0.70. Working Distance: 0.36mm
- MA349** S.Planachromat LWD, M50X, N.A.0.50. Working Distance: 6.0mm
- MA329** S.Planachromat M60X, N.A.0.85. Working Distance: 0.48mm
- MA328** S.Planachromat M100X, N.A.0.75. W. D.: 0.28mm, Dry

EYEPIECE MICROMETERS

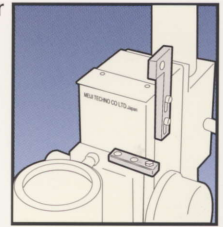
- MA279** Eyepiece micrometer, cross-line reticle, 19mm diameter
for use with HWF10X eyepiece (MA406)
- MA280** Eyepiece micrometer, 10mm divided into 100 units,
19mm diameter for use with HWF10X eyepiece (MA406)
- MA281** Eyepiece micrometer, 5mm divided into 100 units,
19mm diameter for use with HWF10X eyepiece (MA406)
- MA282** Eyepiece micrometer, 10mm divided into 400 parts, 0.5mm
square, 19mm diameter for use with HWF10X eyepiece (MA406)
- MA283** Eyepiece micrometer, 10mm divided into 100 parts, 1.0mm
square, 19mm diameter for use with HWF10X eyepiece (MA406)
- MA539** Eyepiece micrometer, crossline with 0.1mm graduations,
19mm diameter for use with HWF10X eyepiece (MA406)

STAGE MICROMETERS

- MA285** Stage Micrometer, 1mm divided into 100 units,
each unit 0.01mm
- MA286** Stage Micrometer, 0.04" divided into 400 units,
each unit 0.001 inch
- MA292** Metal stage micrometer, 0.01mm. for reflected light

DIGIMATIC INDICATORS

- MTI164-162** Mitutoyo Digimatic micrometer
for X-Y axis movement:
Range 50mm (2")
- MTI543-252B** Mitutoyo Digimatic Indicator
for Z axis movement:
Range 12.7mm (0.5")
- MA721** Extension rod for axis
indicator
- MA807** Mounting bracket for Z axis
indicator



MA807 Bracket for
mounting Digital
indicator (Optional)
The FU1010
Focusing blocks are
all provided with
threaded holes for
mounting the MA807
Bracket

VIDEO EQUIPMENT

- CK3100N** CCD Color TV camera. 1/3" CCD,
450 TV lines of resolution, NTSC
system with DC12V adapter
- CK3100P** CCD Color TV camera. 1/3" CCD,
450 TV lines of resolution, PAL
system with DC12V adapter
- CK3900N** CCD Color TV camera. 1/2" CCD,
450 TV lines of resolution, NTSC system
with DC12V adapter
- CK3900P** CCD Color TV camera. 1/2" CCD, 450 TV lines of
resolution, PAL system with DC12V adapter

VIDEO "C" MOUNTS

- MA151/10** "C"mount adapter (Replaces existing phototube)
- MA151/35/04** "C"mount adapter with 0.45X lens
(Slips over top of existing phototube)
- MA151/35/15** "C"mount adapter with 1.0X lens
(Slips over top of existing phototube)
- MA151/35/20** "C"mount adapter with 0.7X lens
(Slips over top of existing phototube)
- MA151/35/25** "C"mount adapter with 2.5X lens
(Slips over top of existing phototube)

DIGITAL CAMERA ADAPTERS

- MA151/35/50** Digital Camera adapter for use with Nikon Coolpix
950 and 990 digital cameras. (Slips over top of
existing phototube)
- MA151/35/60** Digital Camera adapter for use with Olympus
Camedia digital cameras. (Slips over top of
existing phototube)

OTHERS

- FL150/70** Spare Bulb, 21V 150W (EKE)
- MA569** Glass stage plate for MA729 reflected and transmitted
light stage

Agent :



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