



# 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.)

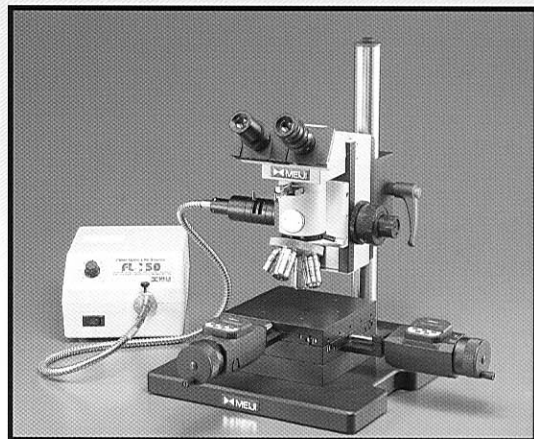


# MC Series

## PRECISION MEASURING MICROSCOPE SYSTEMS

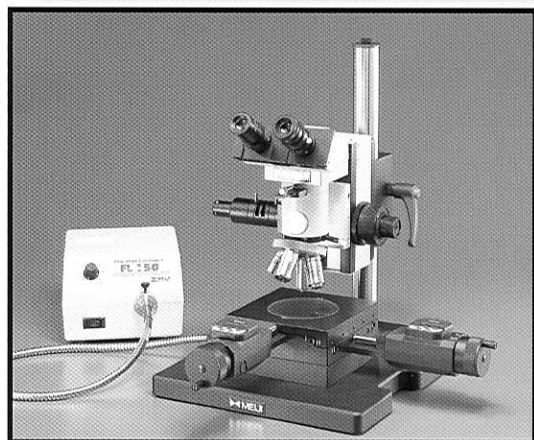
### MODEL MC-40

Reflected light  
Measuring  
Microscope with  
erect image  
Binocular head



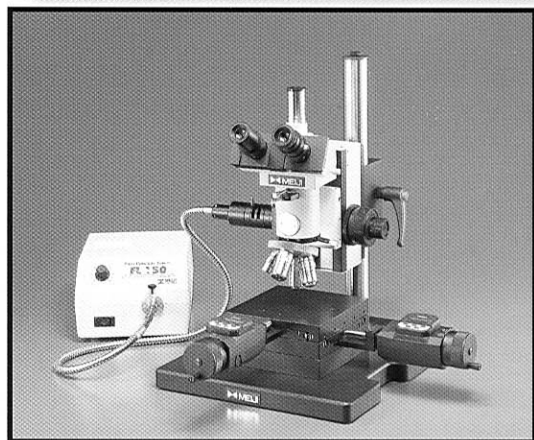
### MODEL MC-40T

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



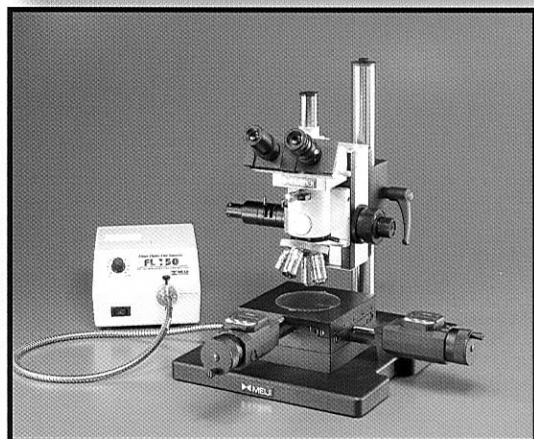
### MODEL MC-50

Reflected light  
Measuring  
Microscope with  
erect image  
Trinocular head

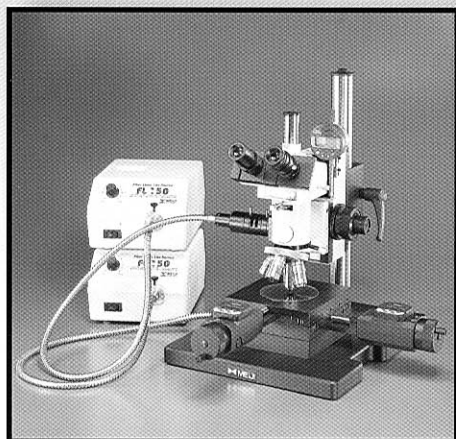


### MODEL MC-50T

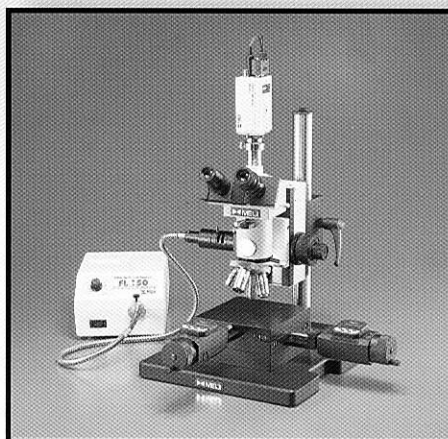
Transmitted light  
Measuring  
Microscope with  
erect image  
Trinocular head  
(Convertible to  
reflected light by  
inserting light guide  
into vertical  
illuminator tube)



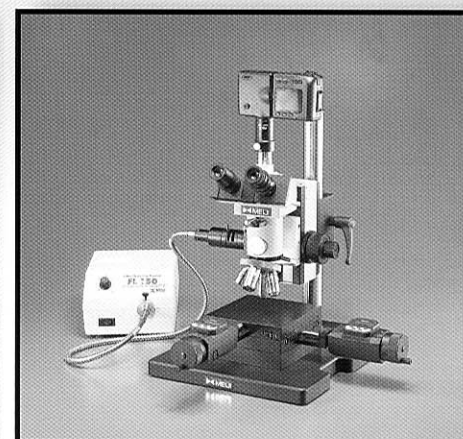
*Note: MT1164-162 Digimatic micrometer heads for X-Y axis movement are optional.*



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 reticle, 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

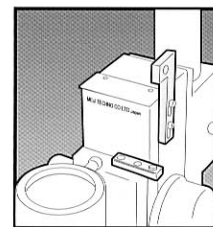
- MA279** Eyepiece micrometer, cross-line reticle, 19mm diameter
- MA280** Eyepiece micrometer, 10mm divided into 100 units, 19mm diameter for use with HWF10X eyepiece (MA406)
- MA281** Eyepiece micrometer, 5mm divided into 100 units, 19mm diameter for use with HWF10X eyepiece (MA406)
- MA282** Eyepiece 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

- MT1164-162** Mitutoyo Digimatic Indicator for X-Y axis movement: Range 50mm (2")
- MT1543-252B** 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 lines of resolution, NTSC system with 115V-DC12V adapter
- CK3100P** CCD Color TV camera. 1/3" CCD, 450 lines of resolution, PAL system without DC adapter
- CK3900N** CCD Color TV camera. 1/2" CCD, 450 lines of resolution, NTSC system with 115V-DC12V adapter
- CK3900P** CCD Color TV camera. 1/2" CCD, 450 lines of resolution, PAL system without DC 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

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