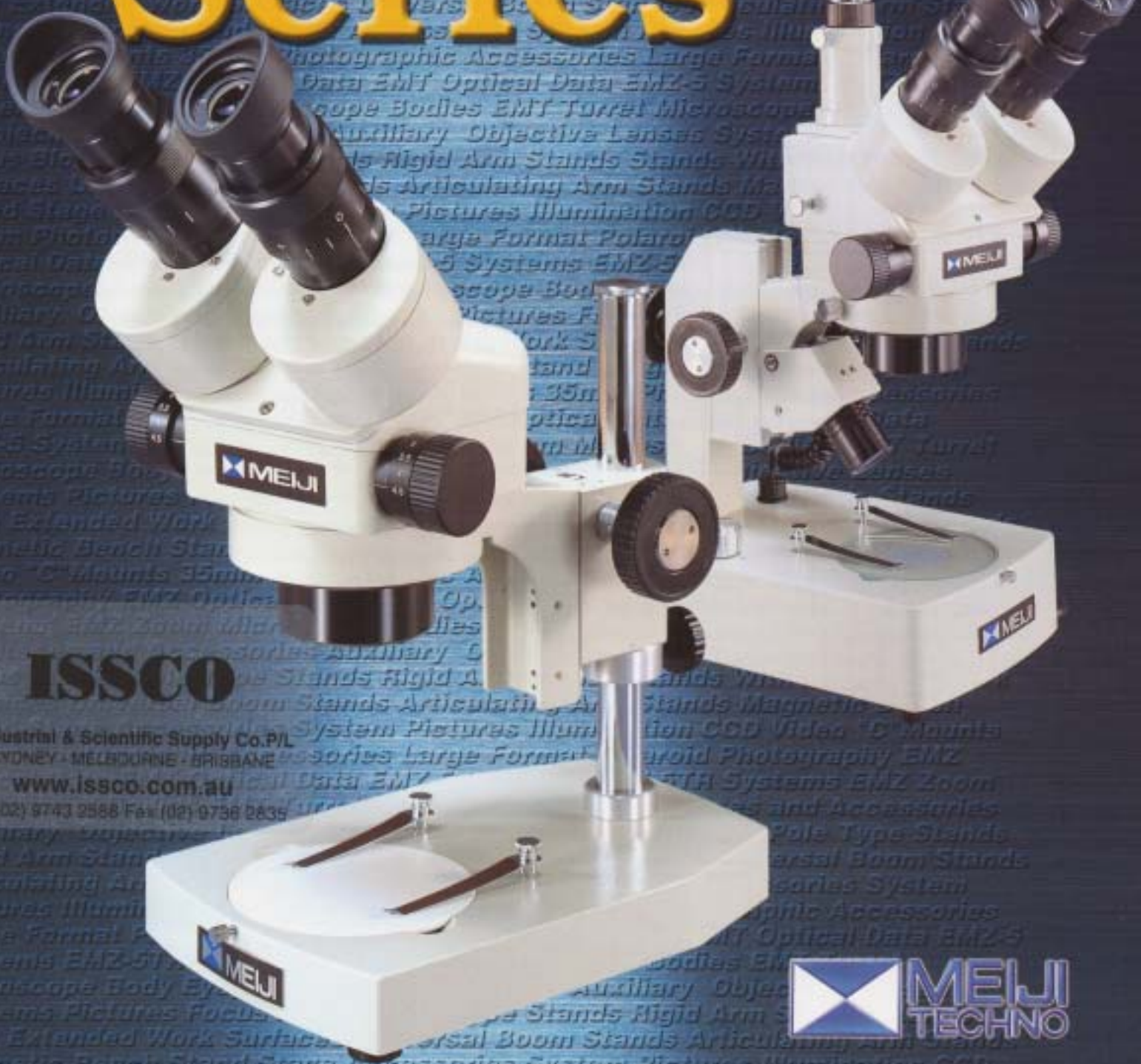


STEREO MICROSCOPES

EMM Series



ISSCO

Industrial & Scientific Supply Co. P/L
SYDNEY • MELBOURNE • BRISBANE

www.issco.com.au

(02) 9743 2588 Fax: (02) 9736 2835



EM Series Stereo Microscopes



No other line of stereo microscopes can match the combination of superb optics, rugged dependability, economical pricing, and wide range of accessories offered by Meiji Techno's EM Series stereo microscopes.

Modular Flexibility:

EM Series stereo microscopes are tailored to fit the needs of each and every customer. Modular design enables the user to engineer his own custom solution for virtually any application, selecting components from the widest range of stereo bodies, stands, eyepieces, supplementary lenses, illuminators, and accessory components available in the microscope industry today.

Superb Optics:

Multi-coated optical components, free from chromatic and spherical aberration, provide crystal-clear, high resolution images. The Greenough optical design provides superior erect, unreversed, stereoscopic images, rich in contrast, brightness and correct in their original color. Excellent depth of field and a flat image rendition are also characteristic of the EM Series product line.

Rugged Dependability:

All-metal aluminum alloy microscope bodies and components with chemical resistant finishes guarantee stability and rugged dependability for a lifetime of day-in and day-out use. Superior craftsmanship, quality components and materials result in long-lasting, high-performance products.

Ergonomic Design:

All EM Series stereo microscope bodies feature a compact lightweight design. Every stereo body features adjustable diopter tubes and interpupillary distance adjustment. Observation tubes are inclined at 45°, 60° or 90° for convenient fatigue free viewing depending on the application. A range of fixed or tilting focus blocks are available to mount the microscope body onto existing O.E.M. equipment. A choice of Zoom, Turret or Fixed magnification bodies with various working distances, optional auxiliary objectives and eyepieces, multiple adjustable stands, versatile illumination systems, and auxiliary components allow the end user to design a system to fulfill their specific requirements.

Applications:

EM Series stereo microscopes are the perfect modular microscope systems for a multitude of applications ranging from biological and industrial fields to educational and training situations. A wide variety of professional groups currently use the EM series product to their advantage: Biologists, Physicians, Geologists, Engineers, Dentists, Dental Technicians, Veterinarians, Paleontologists, Entomologists, Gemologists, Educators, Scientific Researchers, Quality Control Personnel, Quality Assurance Personnel, Assemblers, Forensic Document Examiners, Art Restoration Experts, Textile Specialists, Wire And Die Manufacturers, Environmental Specialists, Ophthalmic Specialists, Dermatologists, Metrology Personnel, Tool and Die Professionals, Circuit Board Rework and Repair Personnel, Aquaculture Professionals, Embryo Transplant Professionals, Horticultural Experts, Exterminators, Fish and Wildlife Departments, U.S. Customs Service, Semiconductor Manufacturers, Foresters, Pharmaceutical Manufacturers, Electroplating Specialists, Ballistics Experts, etc...

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EMZ Series ZOOM STEREO MICROSCOPES

EMZ-5 ZOOM STEREO BODY

- Crisp, high resolution, precision optics provide an excellent, erect, unreversed stereoscopic image.
- Rugged all metal body designed to last a lifetime.
- Zoom Range: 0.7X to 4.5X
- Zoom Ratio: 6.5:1
- Ergonomically positioned bilateral zoom controls.
- Binocular eyetubes inclined at 45° for fatigue free viewing.
- Total magnification range available with auxillary lenses and eyepieces: 2.1X to 270X.
- Dual dioptic adjustment (± 5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range.
- Interpupillary distance adjustment from 54mm to 75mm.
- Binocular body can be rotated a full 360° and locked in any position.
- Standard working distance 93mm.
- Working distance with optional auxillary lenses: 34mm to 251mm.



EMZ-5

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EMZ-5 on P Stand with
MA502 SWF10X eyepieces



EMZ-5 on PBH Stand with
MA502 SWF10X eyepieces



EMZ-5 on ABE Stand with
MA502 SWF10X eyepieces

EMZ Series ZOOM STEREO MICROSCOPES



EMZ-5TR ZOOM STEREO BODY

- Trinocular zoom body for use in photographic and video applications. When the beamsplitter is engaged 100% of the light from the left optical path is directed to the phototube. The image can still be viewed through the right eyetube.
- Crisp, high resolution, precision optics provide an excellent, erect, unreversed stereoscopic image.
- Rugged all metal body designed to last a lifetime.
- Zoom Range: 0.7X to 4.5X
- Zoom Ratio: 6.5:1
- Ergonomically positioned bilateral zoom controls.
- Binocular eyetubes inclined at 45° for fatigue free viewing.
- Total magnification range available with auxiliary lenses and eyepieces: 2.1X to 270X.
- Dual dioptic adjustment (± 5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range.
- Interpupillary distance adjustment from 54mm to 75mm.
- Trinocular body can be rotated a full 360° and locked in any position.
- Standard working distance 93mm.
- Working distance with optional auxiliary lenses: 34mm to 251mm.



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EMZ-5TR



EMZ-5TR on P Stand with
MA502 SWF10X eyepieces



EMZ-5TR on PBH Stand with
MA502 SWF10X eyepieces



EMZ-5TR on ABE Stand with
MA502 SWF10X eyepieces

EMZ ZOOM STEREO MICROSCOPES



EMZ-5 with MA502 SWF10X eyepieces

EMZ-5 ZOOM STEREO BODY

Body: Binocular, rotatable 360°
Zoom Ratio: 6.5:1
Zoom Range: 0.7X to 4.5X
Zoom Control: Dual, graduated, bilateral mount.
Magnification: 7X - 45X (With 10X eyepieces)
Field of view: 32mm - 5.1mm
Working Distance: 93mm
Eyepiece Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Dual (± 5 diopters)

Extended Magnification Range : 2.1X - 270X
Extend working distances: 34mm - 251mm
(With supplemental objectives and eyepieces)



EMZ-5TR with MA502 SWF10X eyepieces

EMZ-5TR ZOOM STEREO BODY

Body: Trinocular, rotatable 360°
Zoom Ratio: 6.5:1
Zoom Range: 0.7X to 4.5X
Zoom Control: Dual, graduated, bilateral mount.
Magnification: 7X - 45X (With 10X eyepieces)
Field of view: 32mm - 5.1mm
Working Distance: 93mm
Eyepiece Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Dual (± 5 diopters)

Extended Magnification Range : 2.1X - 270X
Extend working distances: 34mm - 251mm
(With supplemental objectives and eyepieces)



EMZ-10 with MA502 SWF10X eyepieces

EMZ-10 ZOOM STEREO BODY

Body: Binocular, rotatable 360°
Zoom Ratio: 6.5:1
Zoom Range: 0.7X to 4.5X
Zoom Control: Dual, graduated, bilateral mount.
Magnification: 7X - 45X (With 10X eyepieces)
Field of view: 32mm - 5.1mm
Working Distance: 110mm
Eyepiece Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Dual (± 5 diopters)

Extended Magnification Range : 2.1X - 270X
Extend working distances: 45mm - 332mm
(With supplemental objectives and eyepieces)

EMZ ZOOM STEREO MICROSCOPES



EMZ-9 with MA502 SWF10X eyepieces

EMZ-9 ZOOM STEREO BODY

Body: Binocular, rotatable 360°
Zoom Ratio: 6.5:1
Zoom Range: 0.7X to 4.5X
Zoom Control: Dual, graduated, bilateral mount.
Magnification: 7X - 45X (With 10X eyepieces)
Field of view: 32mm - 5.1mm
Working Distance: 93mm
Eyepiece Inclination: 60°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Dual (± 5 diopters)

Extended Magnification Range : 2.1X - 270X
Extend working distances: 34mm - 235mm
(With supplemental objectives and eyepieces)



EMZ-6 with MA502 SWF10X eyepieces

EMZ-6 ZOOM STEREO BODY

Body: Trinocular, rotatable 360°
Zoom Ratio: 6.5:1
Zoom Range: 0.65X to 4.2X
Zoom Control: Dual, graduated, bilateral mount.
Magnification: 6.5X - 42X (With 10X eyepieces)
Field of view: 35mm - 5.4mm
Working Distance: 108mm
Eyepiece Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Dual (± 5 diopters)

Extended Magnification Range : 1.95X - 252X
Extend working distances: 34mm - 235mm
(With supplemental objectives and eyepieces)



Z-7100 with MA502 SWF10X eyepieces

Z-7100 ZOOM STEREO BODY

Body: Binocular, rotatable 360°
Zoom Ratio: 6.5:1
Zoom Range: 0.7X to 4.5X
Zoom Control: Dual, graduated, bilateral mount.
Magnification: 7X - 45X (With 10X eyepieces)
Field of view: 32mm - 5.1mm
Working Distance: 110mm
Eyepiece Inclination: 90°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Dual (± 5 diopters)

Extended Magnification Range : 2.1X - 270X
Extend working distances: 45mm - 332mm
(With supplemental objectives and eyepieces)

TURRET-TYPE STEREO MICROSCOPES



EMT-1 with MA502 SWF10X eyepieces **EMTR-1** with MA502 SWF10X eyepieces



EMT-2 with MA502 SWF10X eyepieces **EMTR-2** with MA502 SWF10X eyepieces



EMZ-3 with MA502 SWF10X eyepieces **EMTR-3** with MA502 SWF10X eyepieces

EMT-1 & EMTR-1 TURRET STEREO BODY

Body: Binocular or trinocular, rotatable 360°
Paired Objectives: 1X, 2X
Magnification: 10X - 20X (With 10X eyepieces)
Field of view: 23mm - 11.5mm
Working Distance: 108mm
Eyetube Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Left eyetube

Extended Magnification Range : 5X - 60X
Extend working distances: None

EMT-2 & EMTR-2 TURRET STEREO BODY

Body: Binocular or trinocular, rotatable 360°
Paired Objectives: 1X, 3X
Magnification: 10X - 30X (With 10X eyepieces)
Field of view: 23mm - 7.7mm
Working Distance: 81mm
Eyetube Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Left eyetube

Extended Magnification Range : 5X - 180X
Extend working distances: 21mm - 96mm
(With supplemental objectives and eyepieces)

EMT-3 & EMTR-3 TURRET STEREO BODY

Body: Binocular or trinocular, rotatable 360°
Paired Objectives: 2X, 4X
Magnification: 20X - 40X (With 10X eyepieces)
Field of view: 11.5mm - 5.75mm
Working Distance: 63mm
Eyetube Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Left eyetube

Extended Magnification Range : 10X - 240X
Extend working distances: 21mm - 96mm
(With supplemental objectives and eyepieces)

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TURRET-TYPE STEREO MICROSCOPES

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EMT-4 & EMTR-4 TURRET STEREO BODIES

Body: Binocular or trinocular, rotatable 360°
Paired Objectives: 1X, 4X
Magnification: 10X - 40X (With 10X eyepieces)
Field of view: 23mm - 5.7mm
Working Distance: 63mm
Eyetube Inclination: 45°
Interpupillary Distance Adjustment: 54mm - 75mm
Dioptric Adjustment: Left eyetube

Extended Magnification Range : 5X - 240X
Extend working distances: 21mm-96mm

EMT-4 with MA502 SWF10X eyepieces **EMTR-4** with MA502 SWF10X eyepieces

FIXED-OBJECTIVE TYPE STEREO MICROSCOPES



EMF-1, EMF-2 FIXED-OBJECTIVE STEREO BODY

	EMF-1	EMF-2
Body	Binocular rotatable 360°	
Paired Objective	1X	2X
Magnification (with 10X eyepieces)	10X	20X
Field of view	23mm	11.5mm
Working Distance	108mm	
Eyeteube Inclination	45°	
Interpupillary Distance Adjustment	54mm - 75mm	
Dioptric Adjustment	Left eyeteube	
Extended Magnification Range (with optional eyepieces)	5X - 30X	10X - 60X

EMF-1, EMF-2 with MA502 SWF10X eyepieces

CONFIGURATION SAMPLES



EMF-2 / SWF10X / P



EMT-1 / SWF10X / PB



EMTR-2 / SWF10X / PBH



EMX-1 / SWF10X / PX

LONG WORKING DISTANCE TURRET STEREO



EMX-1 with MA502 SWF10X eyepieces

EMX-1 TURRET STEREO BODIES

Body: Binocular, rotatable 360°
 Paired Objectives: 0.5X, 1X
 Magnification: 5X - 10X (With 10X eyepieces)
 Field of view: 46mm - 23mm
 Working Distance: 225mm
 Eyetube Inclination: 45°
 Interpupillary Distance Adjustment: 54mm - 75mm
 Dioptic Adjustment: Left eyetube

Extended Magnification Range : 5X - 30X
 Extend working distances: 300mm
 (With supplemental objectives and eyepieces)

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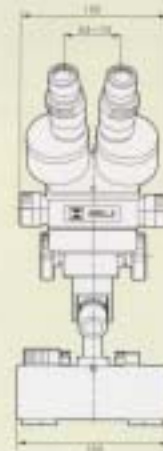
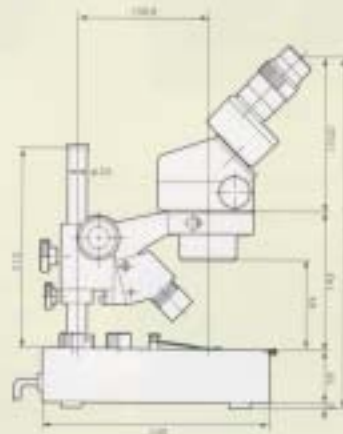
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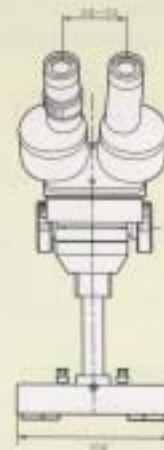
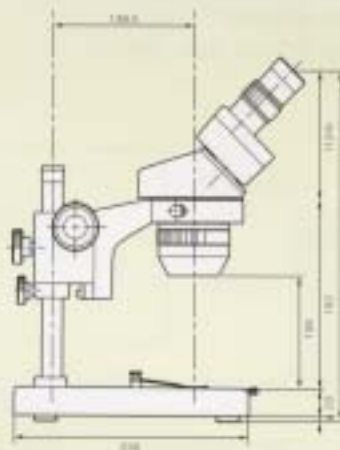
CONFIGURATION SAMPLES



EMZ-5 / SWF10X / PBH



EMT-1 / SWF10X / P Stand



EYEPIECES AND EYEPIECE ACCESSORIES

EYEPIECES

A large selection of interchangeable super widefield eyepieces are available for all EM Series stereo microscopes.

- MA501** Super Widefield 5X Eyepiece, field No.26
- MA502** Super Widefield 10X Eyepiece with 25mm diameter reticle mount, field No.23
- MA520** Super Widefield 12.5X Eyepiece with 25mm diameter reticle mount, field No.20
- MA503** Super Widefield 15X Eyepiece with 25mm diameter reticle mount, field No.15.4
- MA535** Super Widefield 15X High-eyepoint eyepiece with 25mm diameter reticle mount, field No. 16.0
- MA504** Super Widefield 20X Eyepiece with 25mm diameter reticle mount, field No. 11.5
- MA521** Super Widefield 30X Eyepiece field No. 7.7
- MA519** Super Widefield 10X Focusing eyepiece (single) with 25mm diameter reticle mount, field No.21
- MA600** Eyeshields (paired)

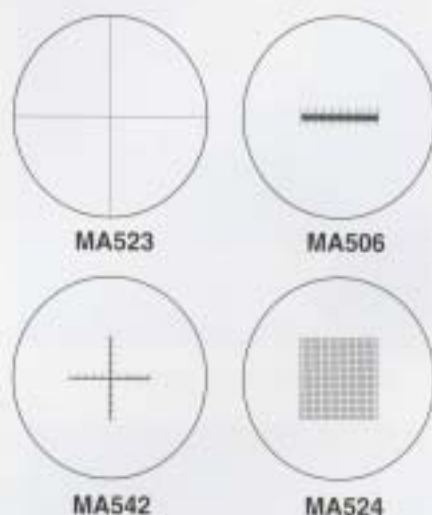
Note: All eyepieces are paired unless otherwise indicated.



EYEPIECE MICROMETERS

Eyepiece micrometers can be inserted into the 10X, 15X or 20X eyepieces for the purpose of specimen measurement. Linear scales, counting grids, and cross-line micrometers are just a few of the choices available to facilitate measurement of your specimens.

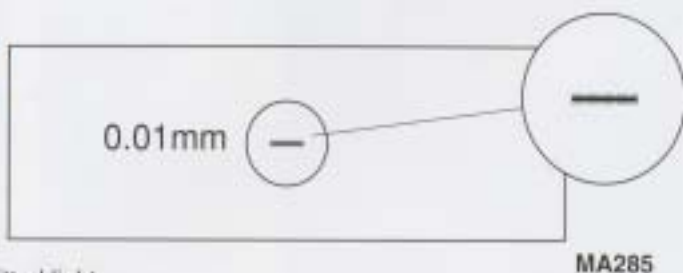
- MA523** Cross-line, 25mm diameter
- MA506** 10mm divided into 100 units, 25mm diameter
- MA509** 5mm divided into 100 units, 25mm diameter
- MA510** 10mm square divided into 100 parts, 25mm diameter (Each side of each individual square 1.0mm)
- MA524** 10mm square divided into 400 parts, 25mm diameter (Each side of each individual square 0.5mm)
- MA542** Cross-line with 0.01mm graduations, 25mm diameter



STAGE MICROMETERS

Stage micrometers are used to calibrate eyepiece micrometers. Stage micrometers are available in both English and metric scales for reflected and transmitted light.

- MA285** 1mm divided into 100 units (0.01mm), for transmitted light
- MA286** 0.04" divided into 40 units (0.001"), for transmitted light
- MA287** 0.1mm by 0.1mm counting square for transmitted light
- MA292** 1mm divided into 100 parts(0.01mm), for reflected light



AUXILIARY OBJECTIVE LENSES



A large selection of auxiliary objective lenses are available for EM Series stereo microscopes.

AUXILIARY LENSES FOR: EMZ-1, EMZ-2, EMZ-2TR, EMZ-5, EMZ-5TR, EMZ-6, EMZ-9

- MA530 Auxiliary lens 0.3X, Working distance 251mm
- MA525 Auxiliary lens 0.44X, Working distance 171mm
- MA517 Auxiliary lens 0.5X, Working distance 148mm
- MA526 Auxiliary lens 0.75X, Working distance 97mm
- MA507 Auxiliary lens 1.5X, Working distance 49mm
- MA511 Auxiliary lens 2.0X, Working distance 33mm



MA517

MA507

MA511

AUXILIARY LENSES FOR: EMZ-10 and Z-7100

- MA545 Auxiliary lens 0.3X, Working distance 326mm
- MA558 Auxiliary lens 0.44X, Working distance 247mm
- MA546 Auxiliary lens 0.5X, Working distance 194mm
- MA547 Auxiliary lens 0.75X, Working distance 127mm
- MA548 Auxiliary lens 1.5X, Working distance 64mm
- MA549 Auxiliary lens 2.0X, Working distance 44mm



MA545

MA548

MA549

AUXILIARY LENSES FOR: EMT-2, EMTR-2, EMT-3, EMTR-3, EMT-4, EMTR-4

- MA515 Adapter*
- MA518 Auxiliary lens 0.5X, Working distance 108mm
- MA527 Auxiliary lens 0.75X, Working distance 72mm
- MA513 Auxiliary lens 1.5X, Working distance 35mm
- MA514 Auxiliary lens 2.0X, Working distance 22mm



MA518

MA513

MA514

*NOTE: The MA515 adapter is required when using the MA518, MA527, MA513, or MA514 with the EMT-2 and EMTR-2.

AUXILIARY LENS FOR EMX-1

- MA562 Auxiliary lens 0.7X, Working distance 300mm



MA562

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FOCUSING BLOCKS

F HOLDER

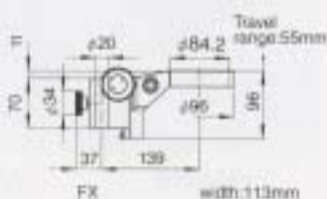
Focusing slide block designed to hold the stereo microscope body on machines or for special OEM applications. Rack and pinion mount allows smooth, precise focusing over 55mm of travel. Coarse focus mechanism incorporates a slip clutch and tension adjustment. Fits 20mm mounting post, 84.2mm diameter opening accepts 84mm stereo microscope body.



F

FX HOLDER

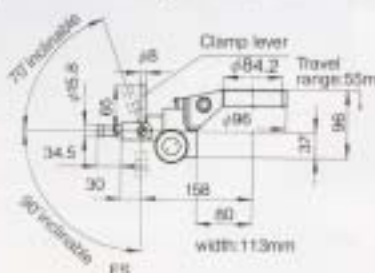
Focusing slide block with integral illuminator port designed to hold the stereo microscope body on machines or for special OEM applications. Rack and pinion mount allows smooth, precise focusing over 55mm of travel. Coarse focus mechanism incorporates a slip clutch and tension adjustment. Fits 20mm mounting post. 84.2mm diameter opening accepts 84mm stereo microscope body.



FX

FS HOLDER

Special tilting focusing slide block with integral illuminator port designed to hold the stereo microscope body on machines or for special OEM applications. Rack and pinion mount allows smooth, precise focusing over 55mm of travel. Coarse focus mechanism incorporates a slip clutch and tension adjustment. 15.8mm (5 / 8") mounting pin, 84.2mm diameter opening accepts 84mm stereo microscope body.



FS

FC HOLDER

Coaxial coarse and fine focusing slide block designed for applications where precise fine focus adjustment is required. Rack and pinion mount allows smooth, precise focusing over 33 mm of travel. Coarse focus mechanism incorporates a slip clutch and tension adjustment. Fits 20mm mounting post, 84.2mm diameter opening accepts 84mm stereo microscope body. Note: 71mm mounting pins require FC11 extension



FC11

FC

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STANDS [POLE-TYPE STANDS]



P

P STAND

Pole-type stand with F holder focus block mounted on a plain base. Supplied with one 94.5mm diameter reversible black and white stage plate and two stage clips.

Dimensions:

Length: 230mm
Width: 150mm
Height: 248mm
Pillar Diameter: 20mm



PL

PL STAND

Pole type stand with FX holder focus block with incident light illuminator port mounted on a plain base. Supplied with one 94.5mm diameter reversible black and white stage plate and two stage clips.

Dimensions:

Length: 230mm
Width: 150mm
Height: 248mm
Pillar Diameter: 20mm



PX

PX STAND

Extended working distance pole-type stand with FX holder focus block with incident illuminator port mounted on a plain base. Supplied with one 94.5mm diameter reversible black and white stage plate and two stage clips.

Designed for use with the EMX-1 extended working (distance stereo body)

Dimensions:

Length: 230mm
Width: 150mm
Height: 290mm
Pillar Diameter: 20mm



PC

PC STAND

Pole-type stand with FC coaxial coarse and fine focus block mounted on a plain base. 55mm Z axis travel. 138mm distance from optical center to center of mounting post. Supplied with one 94.5mm diameter reversible black and white stage plate and two stage clips.

Dimensions:

Length: 230mm
Width: 150mm
Height: 248mm
Pillar Diameter: 20mm

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STANDS (POLE-TYPE STANDS)



PB

PB STAND

Pole-type stand with F holder focus block. Provides both transmitted and incident tungsten illumination. Supplied with 94.5mm diameter clear glass stage plate, reversible black and white stage plate and two stage clips. Illuminators may be operated independently or simultaneously. 6V 7.2W

Dimensions:

Length: 240mm
Width: 160mm
Height: 280mm
Pillar Diameter: 20mm

Bulbs:

Incident: MA560
Trans: MA561



PBM

PBM STAND

Pole-type stand with F holder focus block. Provides both transmitted and incident tungsten illumination. Supplied with 94.5mm diameter clear glass stage plate, reversible black and white stage plate and two stage clips. Illuminators may be operated independently or simultaneously. 115V 15W

Dimensions:

Length: 240mm
Width: 160mm
Height: 280mm
Pillar Diameter: 20mm

Bulbs:

Incident: MA590
Trans: MA590



PBH

PBH STAND

Pole-type stand with F holder focus block. Provides both transmitted and incident halogen illumination with variable intensity control. Illuminators may be operated independently or simultaneously. Supplied with a 94.5mm diameter clear glass stage plate, reversible black and white stage plate and two stage clips. 6V 10W Halogen

Dimensions:

Length: 240mm
Width: 160mm
Height: 280mm
Pillar Diameter: 20mm

Bulbs:

Incident: MA570
Trans: MA570



BX

BX STAND

Pole-type stand with FX holder focus block with incident illuminator port. Transmitted light base includes a fully rotatable mirror for brightfield or "pseudo" darkfield work. Supplied with a 94.5mm diameter clear glass stage plate and two stage clips. Base and focus block accept optional versatile type illuminators. (MA264H or MA264)

Dimensions:

Length: 240mm
Width: 160mm
Height: 280mm
Pillar Diameter: 20mm

Note:

Rear illuminator port opening 25mm ID 30mm OD

STANDS [RIGID ARM STANDS]



A

A STAND

Rigid-arm type stand with integral focus block mounted on a plain base. Supplied with one 94.5mm diameter reversible black and white stage plate and two stage clips.

Note: The A stand is intended for use with fixed or turret type stereo bodies.

Dimensions:

Length: 230mm
Width: 150mm
Height: 203mm



AZ

AZ STAND

Rigid-arm type stand with integral focus block mounted on a plain base. Supplied with one 94.5mm diameter reversible black and white stage plate and two stage clips.

Note: The AZ stand is intended for use with zoom stereo bodies.

Dimensions:

Length: 230mm
Width: 150mm
Height: 203mm



AB

AB STAND

Rigid-arm type stand with integral focus block . Provides transmitted and incident tungsten illumination which may be operated independently or simultaneously. Supplied with a 94.5 mm diameter clear glass stage plate, reversible black and white stage plate and two stage clips. 6V 7.2W

Note: The AB stand is intended for use with fixed or turret type stereo bodies.

Dimensions:

Length: 240mm
Width: 160mm
Height: 233mm

Bulb:

Incident: MA560
Trans: MA561



ABZ

ABZ STAND

Rigid-arm type stand with integral focus block . Provides both transmitted and incident tungsten illumination which may be operated independently or simultaneously. Supplied with a 94.5 mm diameter clear glass stage plate, reversible black and white stage plate and two stage clips. 6V 7.2W

Note: The ABZ stand is intended for use with zoom stereo bodies.

Dimensions:

Length: 240mm
Width: 160mm
Height: 233mm

Bulb:

Incident: MA570
Trans: MA570

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STANDS (RIGID ARM STANDS)



ABH

ABH STAND

Rigid arm type stand with integral focus block . Provides transmitted and incident halogen illumination, independently or simultaneously with variable intensity control. Supplied with 94.5 mm diameter clear glass, black and white stage plates and two stage clips. 6V 10W Halogen

Note: The ABH stand is intended for use with fixed or turret bodies.

Dimensions:

Length: 240mm
Width: 160mm
Height: 233mm

Bulb:

Incident: MA570
Trans: MA570



ABZH

ABZH STAND

Rigid arm type stand with integral focus block . Provides transmitted and incident halogen illumination, independently or simultaneously with variable intensity control. Supplied with 94.5 mm diameter clear glass, black and white stage plates and two stage clips. 6V 10W Halogen

Note: The ABZ stand is intended for use with zoom stereo bodies

Dimensions:

Length: 240mm
Width: 160mm
Height: 233mm

Bulb:

Incident: MA570
Trans: MA570



ABE

ABE STAND

Rigid arm type stand with integral focus block and extendable working distance . Provides transmitted and incident halogen illumination, independently or simultaneously with variable intensity control. Supplied with 94.5 mm diameter clear glass, black and white stage plates and two stage clips. 6V 10W Halogen

Dimensions:

Length: 240mm
Width: 160mm
Height: 240mm-300mm

Bulb:

Incident: MA570
Trans: MA570



B

B STAND

Rigid arm type stand with integral focus block. A dual-reflection lens system provides incident, transmitted, or simultaneous illumination. A fully rotatable mirror in the base provides transmitted light brightfield or "pseudo" darkfield illumination. Supplied with 94.5 mm diameter clear glass, black and white stage plates and two stage clips. 115V 20W

Dimensions:

Length: 245mm
Width: 160mm
Height: 233mm

Bulb:

MA261 / SL10

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STANDS [STANDS WITH EXTENDED WORK SURFACE]



KBL

KBL STAND

Pole type stand with FX holder focus block with incident illuminator port mounted on a 380mm x 330mm x 20mm flat laminate base. Optional 100mm (4") pillar extension (MA551) can provide additional clearance or working distance.

Dimensions:

Length: 330mm
Width: 380 mm
Height: 245 mm



KBE

KBE STAND

Rigid arm type stand with integral focus block mounted on a 380mm x 330mm x 20mm flat laminate base. The rigid arm can be extended to accommodate large specimens and a wide variety of auxiliary objective lenses.

Dimensions:

Length: 330mm
Width: 380 mm
Height: Variable



SBU

SBU STAND

Special universal-type stand with pillar, crossarm and mounting post mounted directly over a large flat laminate work surface. Provides flexible horizontal and vertical movement for large specimens. 20mm diameter short mounting post accepts optional F, FX or FC holders.

Dimensions:

Horizontal pole
Length: 480 mm
Diameter: 25mm

Vertical pole
Length: 365 mm
Diameter: 29 mm

Base: 580mm x 500mm x 38mm.



UL

UL STAND

Special universal-type stand with pillar, crossarm, mounting post, and rotatable tray to hold optional fiber optic light source. Provides flexible horizontal and vertical movement for large specimens. 20mm diameter short mounting post accepts optional F, FX or FC holders.

Dimensions:

Horizontal pole
Length: 480 mm
Diameter: 25mm

Vertical pole
Length: 365 mm
Diameter: 29 mm

Base: 580mm x 500mm x 38mm.

ISSCO

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Fax.(02) 9736 2835

STANDS (UNIVERSAL BOOM STANDS)



S-4100

S-4100 STAND

Industrial-type boom stand with 20mm mounting post for F, FX or FC holders. Provides complete flexibility for horizontal and vertical adjustment. Sturdy solid metal 265mm x 265mm x 25mm base provides excellent stability.

Note: F, FX and FC holders must be ordered separately.

Dimensions:

Horizontal pole
Length: 530mm
Diameter: 25mm

Vertical pole
Length: 400mm
Diameter: 29mm



S-4200

S-4200 STAND

Extended working distance industrial-type boom stand with 20mm mounting post for F, FX or FC holders. Provides complete flexibility for horizontal and vertical adjustment. Sturdy, solid metal 265mm x 265mm x 25mm base provides excellent stability.

Note: F, FX and FC holders must be ordered separately.

Dimensions:

Horizontal pole
Length: 530mm
Diameter: 25mm

Vertical pole
Length: 610mm
Diameter: 29mm



S-4300

S-4300 STAND

Industrial-type boom stand with adapter(MA552)for FS holder. Provides complete flexibility for horizontal, vertical and angular adjustment. FS holder can be inclined 180° and rotated 360°, 16mm diameter mounting pin. Sturdy, solid metal 265mm x 265mm x 25mm base.

Note: FS holder must be ordered separately.

Dimensions:

Horizontal pole
Length: 530mm
Diameter: 25mm

Vertical pole
Length: 400mm
Diameter: 29mm



S-4400

S-4400 STAND

Extended working distance industrial-type boom stand with adapter (MA552) for FS holder. Provides complete flexibility for horizontal, vertical and angular adjustment. FS holder can be inclined 180° and rotated 360°, 16mm diameter mounting pin. Sturdy, solid metal 265mm x 265mm x 25mm base.

Note: FS holder must be ordered separately.

Dimensions:

Horizontal pole
Length: 530mm
Diameter: 25mm

Vertical pole
Length: 610mm
Diameter: 29mm

STANDS [ARTICULATED ARM STANDS, CLAMP BOOM STAND, EXTENDED WORK SURFACE STAND]



FA-1

FA-1 ARTICULATED ARM STAND

Articulated arm stand for bench top attachment. Supplied with mounting flange, two piece folding arm, vertical mounting pillar and 20 mm diameter mounting pin for focus block. Maximum distance from rod to center of optical axis is 1000mm.

Note: F, FX or FC holder must be ordered

Dimensions:

Length: 1100mm
Width: 100mm
Height: 560mm

Pillar Diameter:
20mm



FA-2

FA-2 ARTICULATED ARM STAND

Articulated arm stand designed for mounting to a vertical surface. Supplied with mounting flange, two piece folding arm, and 20 mm diameter mounting pin for focus block. Maximum distance from rod to center of optical axis is 1080mm.

Note: F, FX or FC holder must be ordered separately.

Dimensions:

Base
Length: 1100mm
Width: 100mm

Pillar Diameter:
20mm



S-4500

S-4500 STAND

Industrial-type boom stand with 20mm mounting post for F, FX and FC holders. Provides complete flexibility for horizontal and vertical adjustment. Sturdy solid metal clamp provides excellent stability.

Note: F, FX and FC holders must be ordered separately.

Dimensions:

Horizontal pole
Length: 530mm
Diameter: 25mm

Vertical pole
Length: 400mm
Diameter: 29mm



MU

MU STAND

Special universal-stand with pillar, crossarm and mounting post mounted over a laminate work surface. Provides flexible horizontal and vertical movement for mid sized specimens. 20mm diameter short mounting post accepts F, FX or FC holders. Base: 350mm x 410mm x 30mm

Note: F, FX or FC holder must be ordered separately.

Dimensions:

Horizontal pole
Length: 330mm
Diameter: 25mm

Vertical pole
Length: 365mm
Diameter: 29mm

ISSCO

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STAGES

GRADUATED MECHANICAL STAGE

This stage has 0.1mm graduations and coaxial controls for precise movement of mounted specimens. Features a 116mm x 137mm work surface with stage clips, 50mm x 75mm x-y travel.

Catalog Number: MA564



MA564

GRADUATED MECHANICAL STAGE WITH GLASS STAGE PLATE

This stage has 0.1mm graduations and coaxial controls for precise movement of mounted specimens. Features a 116mm x 137mm work surface with stage clips and 74mm x 96mm clear glass plate for use with transmitted light stands, 50mm x 75mm x-y travel.

Catalog Number: MA564/05



MA564/05

UNGRADUATED MECHANICAL STAGE

This stage features a 125mm x 170mm work surface with stage clips. Roller bearing mount allows smooth, easy, fingertip control over 100mm x 100mm, x-y travel.

Catalog Number: MA565



MA565

UNGRADUATED MECHANICAL STAGE WITH GLASS STAGE PLATE

This stage features a 125mm x 170mm work surface with stage clips and a 94.5mm diameter clear glass stage plate for use with transmitted light stands. Roller bearing mount allows smooth, easy, fingertip control over 100mm x 100mm, x-y travel.

Catalog Number: MA565/05



MA565/05

STAGES AND ACCESSORIES



LARGE SLIDING STAGE

Large 395mm x 395mm (15.5"x 15.5") roller bearing stage with 350mm x 270mm (13.78"x 10.63") x-y travel. Black anodized with x-y lock down screws.

Catalog Number: MA574



MA574

MEDIUM SLIDING STAGE

Medium 292mm x 235mm (11.5"x 9.24") roller bearing stage with 203mm x 101mm (8"x 4") x-y travel. Black anodized with x-y lock down screws.

Catalog Number: MA575



MA575

OBLIQUE VIEWING ATTACHMENT

Designed specifically for the inspection of solder connections, rework and repair of electronic circuits and for mounting small electronic components. One-touch sliding movement allows the user to quickly change from vertical to oblique viewing. Rotatable 360°. Vertical working distance 110mm. Oblique working distance 130mm.

Note: For use with Zoom Stereo EMZ- 5, EMZ-5TR, EMZ-2 and EMZ-2TR bodies only.

Catalog Number: MA571



MA571

LEICA ADAPTER PLATE

The Leica adapter plate allows the EM Series microscope body to be mounted onto the Leica "E" or "ER" arm.

Catalog Number: MA577



MA577

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MEIJI
TECHNO

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ILLUMINATION

DUAL-ARM FIBER OPTIC ILLUMINATOR

150 Watt quartz halogen light source with self-supporting dual arm light guides, connecting adapter and focusing lenses. Rheostat controlled intensity. Color temperature 3200°K. UL listed and CSA approved.

Catalog Number: **FL181 / 100** (110V)
FL181 / 200 (220 / 240V)



FL181

ANNULAR FIBER OPTIC ILLUMINATOR

150 Watt quartz halogen light source with 60mm I.D. annular light guide and connecting adapter. Rheostat controlled intensity. Color temperature 3200°K. UL listed and CSA approved.

Catalog Number: **FL182 / 100**(110V)
FL182 / 200 (220 / 240V)



FL182

ACCESSORIES FOR FL180 SERIES

- | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FL180A | Light source for 110 / 120V, 50 / 60Hz operation, halogen lamp, 21V 150W, with light-intensity regulation, maximum color temperature 3,200°K, with AC fan. |
| FL180B | Light source for 200 / 240V, 50 / 60Hz operation, halogen lamp, 21V 150W, with light-intensity regulation, maximum color temperature 3,200°K, with AC fan. |
| FL180/05 | Dual arm light guide, self supporting, each arm with 5mm (0.20") diameter active fiber optic bundle. |
| FL180/10 | Annular light guide, 60mm (2.36") diameter ring aperture, 9.5mm (0.373") diameter fiber optic bundle. |
| FL180/25 | Adapter, 8mm (0.316") aperture (for use with FL180 / 80) |
| FL180/35 | Adapter, 14.35mm (0.565") aperture (for use with FL180 / 10) |
| FL180/40 | Adapter, 16.0mm (0.629") aperture (for use with FL180 / 05) |
| FL180/50 | Lens, 28mm F.L. (for use with FL180 / 05) |
| FL180/70 | Spare bulb, 21V 150W (EKE) |
| FL180/80 | Single arm light guide (flexible), 3.18mm (0.125") diameter fiber optic bundle. |
| FL180/85 | Polarizer cap for linear polarization (single) fits FL180 / 50. |
| FL180/90 | Filter kit consisting of blue, yellow, green, red, daylight correction filters and holder. |
| FL180/FUSE | Fuse 2.5A, 250V 3AG slow burn |

ILLUMINATION



RING FLUORESCENT ILLUMINATOR

Provides 360° of cool white shadow-free illumination. Lightweight, compact, rugged.

Light Output: 8W

Color Temperature: 6,500K

Lamp Life: 1,500 Hours

Catalog Number: MA305 / 100 (110V)

MA305 / 200 (220 / 240V)

Replacement Bulb: MA305 / 05



MA305

VERSATILE HALOGEN ILLUMINATOR

Versatile halogen illuminator with prefocused three lens collecting system, detachable articulating arm, with swivel joint. Provides sharply defined spot without color fringes. Rheostat control. Acid and reagent resistant. 6V 20W

Catalog Number: MA264H / 100 (110V)

MA264H / 200 (220 / 240V)

Replacement Bulb: MA260 / 05



MA264H

VERSATILE TUNGSTEN ILLUMINATOR

Versatile tungsten illuminator with prefocused three lens collecting system, detachable articulating arm, with swivel joint. Provides sharply defined spot without color fringes. Rheostat control. Acid and reagent resistant. 6V 18W

Catalog Number: MA264 / 100 (100V)

MA264 / 200 (220/240V)

Replacement Bulb: MA264 / 05



MA264

FREE STANDING ILLUMINATOR

High intensity, long life daylight, miniature flood-light bulb. Enclosed in a vented, adjustable lamphouse. Heat absorbing filter is built in. 30W

Catalog Number: MA263 / 100 (110V)

MA263 / 200 (220/240V)

Replacement Bulb: MA263 / 05 (110V)

MA263 / 10 (220/240V)



MA263

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MEIJI
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25

CCD CAMERAS FOR VIDEO MICROSCOPY

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The Meiji Techno CCD color and monochrome, high-resolution, single chip cameras offer a large array of features that make them ideal for industrial, medical, educational, or research applications. Durable, compact and lightweight these cameras are a perfect match for use with the EM Series Stereo Microscopes.

COLOR CCD CAMERAS

Model: CK3800N or CK3800P

Description: CCD color video camera

CCD: 1 / 2" Interline-Transfer type

Elements: 768(H) x 494(V) NTSC

752(H) x 582(V) PAL

TV System: NTSC or PAL

Lens Mount: "CS" mount

White Balance: 3200°K / 4600°K / 5600°K / ATW

AGC: 0dB~18dB

Shutter: Electronic, 1 / 60 (1/50)~1 / 10,000 second

Power: 12VDC + 10%

Horizontal Resolution: 450 TV lines

S / N: 50 dB

Video Output: VBS ($\gamma=0.45$)

Minimum Sensitivity : 0.3 lux on CCD surface

(AGC on)

External Sync: HD/VD, Composite sync

Power Consumption 4.5W

Storage Temperature: -25°C~40°C

Operating Temperature: 0°C~40°C

Dimensions: 51mm (W) x 43mm(H) x 128mm(L)

Net Weight: 380g



CK3800 CCD Color Video camera mounted on EMZ-5TR-ABE

MONOCHROME CCD CAMERA

Model: MK300N or MK300P

Description: CCD Monochrome video camera

CCD: 1 / 2" HAD Interline-Transfer type

Elements: 768(H) x 494(V) NTSC

752(H) x 582(V) PAL

TV System: NTSC or PAL

Lens Mount: "CS"mount

Shutter: Electronic, 1 / 60~1 / 10,000 second

Factory preset st 1 / 1,000second

Power: 12VDC regulated (11 ~ 16VDC)

Power Consumption: 2.7VA

Horizontal Resolution: 580 TV lines

S / N: 52 dB

Video Output: VBS ($\gamma=0.45$)

Minimum Sensitivity : 0.3 lux on CCD surface

(AGC on)

External Sync: HD / VD, Composite sync

Power Consumption 4.5W

Ambient Temperature: -10°C + 50°C

Dimensions: 50mm (W) x 40mm(H) x 80mm(L)

Net Weight: 230g



MK300 CCD Monochrome Video camera mounted on EMZ-5TR-ABE

VIDEO "C" MOUNTS



A video "C" mount is used to connect the CCD camera to the trinocular tube of the EM Series stereo microscope. Since their introduction CCD video imagers have continually decreased in size. CCD formats of 2/3", 1/2", 1/3", and 1/4" are common. The smaller the CCD imager the greater the video magnification. Choosing the correct "C" mount for your application allows you to control the magnification on the video monitor. Meiji Techno offers the following "C" mounts for the EM Series microscopes:



MA151 / 5N
Adapter
without lens



MA151 / 35 / 04
Adapter with
0.45X lens



MA151 / 35 / 20
Adapter with
0.7X lens



MA151 / 35 / 15
Adapter with
1.0X lens



MA151 / 35 / 25
Adapter with
2.5X lens

Note: MA151 adapters are designed to be used in conjunction with the existing trinocular tube with the exception of the MA151 / 5N, which replaces the trinocular tube.

The total magnification displayed on a video monitor is determined by the following formula:

Total magnification = Objective magnification x "C" mount magnification x Video magnification

To determine the objective magnification multiply the magnification number found on the zoom control or turret setting times the magnification power of any auxiliary lens being used. The video magnification is determined by dividing the diagonal (mm) measurement of the video monitor by the diagonal (mm) measurement of the CCD video camera chip. Tables of common CCD chip dimensions and video monitor magnifications are listed below.

Common CCD Dimensions

Chip Format	Height	width	Diagonal
1 / 3"	3.6mm	4.8mm	6mm
1 / 2"	4.8mm	6.4mm	8mm
2 / 3"	6.6mm	8.8mm	11mm

Common Video Magnifications

	9"	12"	13"	19"	20"	27"
1 / 3"	38.1X	50.8X	55.0X	80.4X	84.7X	114.3X
1 / 2"	28.6X	38.1X	41.3X	60.3X	63.5X	85.7X
2 / 3"	20.8X	27.7X	30.0X	43.9X	46.2X	62.3X

Note: Top row denotes monitor screen size measured diagonally
To convert from inches to mm multiply by 25.4

The actual size of a specimen can be determined by dividing the length of the specimen measured on the monitor by the total magnification of the monitor.

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35mm PHOTOMICROSCOPY ACCESSORIES

ISSCO

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Three parts are required for mounting a 35mm SLR camera body to the EM Series trinocular microscope bodies:

1. The appropriate T-2 adapter ring for your SLR camera body:

T2-1 Cannon	T2-2 Minolta
T2-3 Pentax K (bayonet)	T2-4 Pentax S (threaded)
T2-5 Nikon	T2-6 Olympus
T2-7 Contax, Yashica	T2-8 Konica
T2-9 Cannon EOS	T2-10 Minolta Alpha / Maxim 2000

The T2 adapter rings connect your camera body to one of the MA150 camera attachments.

2. A photo eyepiece, available in the following magnifications:

MA512	2.5X magnification
MA500	3.3X magnification (with reticle mount)
MA508	5X magnification

The photo eyepiece performs the same function as a standard 35mm camera lens (i.e. focusing the image of the specimen onto the film plane).

3. One of two MA150 series camera attachments:

MA150 / 50	Straight-tube camera attachment
MA150 / 60	Camera attachment with built-in focusing eyepiece

Note: The MA150 / 60 is provided with a focusing eyepiece viewfinder for framing and parfocalizing the camera attachment to the microscope.



T2 ADAPTER RING



PHOTO EYEPIECE



MA150 / 50



MA150 / 60

LARGE FORMAT PHOTOMICROGRAPHY



The Meiji Techno PMX100 Large format photomicrographic camera mounts directly to the trinocular phototube of the EM Series stereo microscope. The PMX100 features a built-in 10X magnification factor and comes equipped with a 10X widefield focusing eyepiece and framing reticle. The mechanical shutter offers exposure settings ranging from 1 / 125 of a second to 1 second and B exposure. A tripod thread is provided. Note: The PMX100 is designed to fit a 25mm O.D., 23mm I.D. trinocular tube.

The following equipment is required for large format photography:

1. The **MEIJI PMX100** Large format photomicrographic camera.

2. A film holder, available from your local photographic supply store in the following sizes:

- #405 3-1 / 4" x 4-1 / 4" pack film holder
- #451 6 cm x 9 cm 8EX roll film holder
- #452 6cm x 7cm 10EX roll film holder
- #453 6cm x 9 cm 16EX roll film holder
- #545 4" x 5" sheet film holder
- #550 4" x 5" pack film holder

3. Film to fit the above film holder.

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PMX100 Large format photomicrographic camera with #405 Polaroid pack film holder mounted on the **EMZ-5TR-PBH** Zoom stereo microscope

ISSCOPh.(02) 9743 2588
Fax.(02) 9736 2835**EMZ Series OPTICAL DATA**

Model	Zoom Range	SWF10X Eyepieces			SWF12.5X Eyepieces			SWF15X Eyepieces			SWF20X Eyepieces			SWF30X Eyepieces		
		Auxiliary Lens	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)
EMZ-1	1X-3X	None	10X~30X	23~7.7	12.5X~37.5X	20~6.6	15X~45X	15.4~5.1	20X~60X	11.5~3.8	30X~90X	7.7~2.5	93			
		0.3X	3X~9X	76~25.6	3.75X~11.25X	66~22	4.5X~13.5X	51.3~17	6X~18X	38~12.6	9X~27X	25.5~8.3	251			
		0.44X	4.4X~13.2X	52~17.5	5.5X~16.5X	45~15	6.6X~19.8X	35~11.5	8.8X~26.4X	26~8.6	13.2X~39.6X	17.5~5.6	181			
		0.5X	5X~15X	46~15.3	6.25X~18.75X	40~13.2	7.5X~22.5X	30.6~10.2	10X~30X	23~7.6	15X~45X	15.4~5	150			
		0.75X	7.5X~22.5X	30.6~10.2	9.37X~28.12X	26.6~8.8	11.25X~33.75X	20.5~6.8	15X~45X	15~5.0	22.5X~67.5X	10.2~3.3	97			
		1.5X	15X~45X	15.3~5.1	18.75X~56.25X	13.3~4.4	22.5X~67.5X	10.2~3.4	30X~90X	7.7~2.5	45X~135X	5.1~1.6	49			
		2.0X	20X~60X	11.5~3.8	25X~75X	10~3.3	30X~90X	7.7~2.6	40X~120X	5.7~1.9	60X~180X	3.8~1.2	34			
EMZ-2 EMZ-2TR EMZ-5 EMZ-5TR EMZ-9	0.7X-4.5X	None	7X~45X	32.8~5.1	8.75X~56.25X	28.5~4.4	10.5X~67.5X	22~3.4	14X~90X	16.4~2.5	21X~135X	11~1.7	93			
		0.3X	2.1X~13.5X	109~17	2.62X~16.87X	95~14.6	3.15X~20.25X	73~11.4	4.2X~27X	54.7~8.5	6.3X~40.5X	36.6~5.7	251			
		0.44X	3.08X~19.8X	74.5~11.5	3.85X~24.75X	64.7~10	4.62X~29.7X	50~7.7	6.16X~39.6X	37.2~5.9	9.24X~59.4X	25~3.8	171			
		0.5X	3.5X~22.5X	65.7~10.2	4.37X~28.12X	57~8.8	5.25X~33.75X	44~6.8	7X~45X	32.8~5.1	10.5X~67.5X	22~3.4	148			
		0.75X	5.25X~33.75X	43.8~6.8	6.56X~42.18X	38~5.8	7.87X~50.62X	29.3~4.5	10.5X~67.5X	21.9~3.4	15.75X~101.25X	14.6~2.2	97			
		1.5X	10.5X~67.5X	21.9~3.4	13.12X~84.37X	19~2.9	15.75X~101.25X	14.6~2.2	21X~135X	10.9~1.7	31.5X~202.5X	7.3~1.1	49			
		2.0X	14X~90X	16.4~2.5	17.5X~112.5X	14.2~2.2	21X~135X	11~1.7	28X~180X	8.2~1.2	42X~270X	5.5~0.8	33			
EMZ-6	0.62X-4.2X	None	5.5X~42X	35~5.4	8.12X~52.5X	30.7~4.7	9.75X~63X	23.7~3.6	13X~84X	17.7~2.7	19.5X~126X	11.8~1.8	108			
		0.5X	3.25X~21X	70~10.8	4.0X~26.2X	61.4~9.4	4.87X~31.5X	47.4~7.2	6.5X~42X	35.4~5.4	9.75X~63X	23.6~3.6	180			
EMZ-10 Z-7100	0.7X-4.5X	None	7X~45X	32.8~5.1	8.75X~56.25X	28.5~4.4	10.5X~67.5X	22~3.4	14X~90X	16.4~2.6	21X~135X	11~1.7	110			
		0.3X	2.1X~13.5X	109~17	2.62X~16.87X	95~14.6	3.15X~20.25X	73~11.3	4.2X~27X	54.8~8.6	6.3X~40.5X	36.6~5.7	326			
		0.44X	3.08X~19.8X	74.5~11.5	3.85X~24.75X	64.7~10	4.62X~29.7X	50~7.7	6.16X~39.6X	37.2~5.9	9.24X~59.4X	25~3.8	247			
		0.5X	3.5X~22.5X	65.6~10.2	4.37X~28.12X	57~8.8	5.25X~33.75X	44~6.8	7X~45X	32.8~5.1	10.5X~67.5X	22~3.4	194			
		0.75X	5.25X~33.75X	43.8~6.8	6.56X~42.18X	38~5.8	7.87X~50.62X	29.3~4.5	10.5X~67.5X	21.8~3.4	15.75X~101.25X	14.6~2.2	127			
		1.5X	10.5X~67.5X	21.8~3.4	13.12X~84.37X	19~2.9	15.75X~101.25X	14.6~2.2	21X~135X	10.9~1.7	31.5X~202.5X	7.3~1.1	64			
		2.0X	14X~90X	16.4~2.5	17.5X~112.5X	14.2~2.2	21X~135X	11~1.7	28X~180X	8.2~1.2	42X~270X	5.5~0.8	44			

EMF - EMT - EMTR - EMX OPTICAL DATA

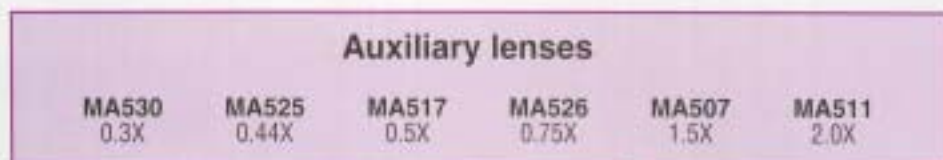
Model	Zoom Range	Auxiliary Lens	SWF10X Eyepieces			SWF12.5X Eyepieces			SWF15X Eyepieces			SWF20X Eyepieces			SWF30X Eyepieces			Working Distance (mm)
			Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)	Total Magnification	Field Diameter (mm)		
EMF-1	1X	None	10X	23	12.5X	20	15X	15.4	20X	20X	11.5	30X	7.7	108				
EMF-2	2X	None	20X	11.5	25X	10	30X	7.7	40X	5.7	50X	3.8	108					
EMT-1	1X, 2X	None	10X, 20X	23.0, 11.5	12.5X, 25X	20.0, 10.0	15X, 30X	15.3, 7.7	20X, 40X	11.5, 5.8	30X, 60X	7.6, 3.8	108					
EMTR-1		None	10X, 20X	23.0, 11.5	12.5X, 25X	20.0, 10.0	15X, 30X	15.3, 7.7	20X, 40X	11.5, 5.8	30X, 60X	7.6, 3.8	108					
EMT-2	1X, 3X	None	10X, 30X	23.0, 7.6	12.5X, 37.5X	20.0, 6.6	15X, 45X	15.4, 5.1	20X, 60X	11.5, 3.8	30X, 90X	7.7, 2.5	81					
EMTR-2		0.5X	5X, 15X	46.0, 15.3	6.25X, 18.75X	40.0, 13.0	7.5X, 22.5X	30.8, 10.2	10X, 30X	23.0, 7.6	15X, 45X	15.4, 5.1	108					
		0.75X	7.5X, 22.5X	30.6, 10.22	9.37X, 28.12X	26.6, 8.8	11.25X, 33.75X	20.5, 6.8	15X, 45X	15.3, 5.1	22.5X, 67.5X	10.2, 3.4	72					
		1.5X	15X, 45X	15.3, 5.1	18.75X, 56.25X	13.3, 4.4	22.5X, 67.5X	10.2, 3.4	30X, 90X	7.6, 2.5	45X, 135X	5.1, 1.7	35					
		2.0X	20X, 60X	11.5, 3.8	25X, 75X	10.0, 3.3	30X, 90X	7.7, 2.5	40X, 120X	5.7, 1.9	60X, 180X	3.8, 1.2	21					
EMT-3	2X, 4X	None	20X, 40X	11.5, 5.7	25X, 50X	10.0, 5.0	30X, 60X	7.7, 3.8	40X, 80X	5.7, 2.8	60X, 120X	3.8, 1.9	63					
EMTR-3		0.5X	10X, 20X	23.0, 11.5	12.5X, 25X	20.0, 10.0	15X, 30X	15.3, 7.6	20X, 40X	11.5, 5.7	30X, 60X	7.6, 3.8	108					
		0.75X	15X, 30X	15.3, 7.6	18.75X, 37.5X	13.3, 6.6	22.5X, 45X	10.2, 5.1	30X, 60X	7.6, 3.8	45X, 90X	5.1, 2.5	72					
		1.5X	30X, 60X	7.7, 3.8	37.5X, 75X	6.6, 3.3	45X, 90X	5.1, 2.5	60X, 120X	3.8, 1.9	90X, 180X	2.5, 1.2	35					
		2.0X	40X, 80X	5.7, 2.8	50X, 100X	5.0, 2.5	60X, 120X	3.8, 1.9	80X, 160X	2.8, 1.4	120X, 240X	1.9, 0.9	22					
EMT-4	1X, 4X	None	10X, 40X	23.0, 5.7	12.5X, 50X	20.0, 5.1	15X, 65X	15.4, 3.8	20X, 80X	11.5, 2.8	30X, 120X	7.7, 1.9	63					
EMTR-4		0.5X	5X, 20X	46.0, 11.5	6.25X, 25X	38, 9.6	7.5X, 30X	30.8, 7.7	10X, 40X	23.0, 5.7	15X, 60X	15.4, 3.8	108					
		0.75X	7.5X, 30X	30.6, 7.6	9.37X, 37.5X	25.5, 6.5	11.25X, 45X	20.53, 5.1	15X, 60X	15.3, 3.8	22.5X, 90X	10.2, 2.5	72					
		1.5X	15X, 60X	15.3, 3.8	18.75X, 75X	13.1, 3.2	22.5X, 90X	10.2, 2.5	30X, 120X	7.6, 1.9	45X, 180X	5.1, 1.2	35					
		2.0X	20X, 80X	11.5, 2.8	25X, 100X	10.2, 2.3	30X, 120X	7.6, 1.9	40X, 160X	5.7, 1.4	60X, 240X	3.8, 0.9	22					
EMX-1	0.5X, 1.0X	None	5X, 10X	46, 23	6.25X, 12.5X	40.0, 20.0	7.5X, 15X	30.6, 15.3	10X, 20X	23.0, 11.5	15X, 30X	15.3, 7.6	225					
		0.7X	3.5X, 7X	69, 34	4.37X, 8.75X	61, 30	5.25X, 10.5X	48.5, 24	7X, 14X	35, 17.1	10.5X, 21X	22, 11	300					



EM Series SYSTEM DIAGRAM

PART 1. ZOOM MODELS

Photo/Video attachments are show in Part 4, 5 (Page 37).



ISSCO

Ph.(02) 9743 2588
Fax.(02) 9736 2835

STAND



PBH Pole type
w/halogen 6V 10W
trans/incident



PB Pole type
w/tungsten 6V 7W
trans/incident lights



PC Plain Pole
w/coaxial focusing



PX Pole type
w/illuminator port
10" Pillar



PL Pole type
w/illuminator port



P Plain Pole type



AZ Plain Rigid-arm

MA551
Extension pole

MA551
Extension pole

MA551
Extension pole

MA551
Extension pole

MA551
Extension pole

MA551
Extension pole

MA568
B/W Plastic stage plate

MA567
Acrylic frosted stage plate

MA567
Acrylic frosted stage plate

MA568
B/W Plastic stage plate

MA568
B/W Plastic stage plate

MA568
B/W Plastic stage plate

MA568
B/W Plastic stage plate

MA569
Clear glass stage plate

MA569
Clear glass stage plate



EYEPIECES, Paired

MA501
SWF5X

MA502
SWF10X

MA520
SWF12.5X

MA503
SWF15X

MA535
HSWF15X

MA504
SWF20X

MA521
SWF30X

MA519*
SWF10X-F
*(Piece)

MA600
EYESHIELD

Auxiliary lenses

MA545
0.3X

MA558
0.44X

MA546
0.5X

MA547
0.75X

MA548
1.5X

MA549
2.0X



EMZ-5TR



EMZ-6



EMZ-9



EMZ-10



Z-7100



ABZ Rigid-arm
w/tungsten 6V 7W
trans/incident lights



ABZH Rigid-arm
w/halogen 6V 10W
trans/incident lights



ABE Extendable
w/halogen 6V 10W
trans/incident lights



BX Stand
w/mirror for B/D
(light not included)



KBL Pole type
w/illuminator port
on flat base

MA551
Extension pole

MA567
Acrylic frosted
stage plate

MA567
Acrylic frosted
stage plate

MA567
Acrylic frosted
stage plate

MA551
Extension pole

MA569
Clear glass
stage plate

MA569
Clear glass
stage plate

MA569
Clear glass
stage plate

MA567
Acrylic frosted
stage plate

MA569
Clear glass
stage plate



KBE Rigid-extendable
arm on flat base



MA564/05
Graduated mechanical stage
with clear glass plate



MA565/05
Ungraduated mechanical stage
with clear glass plate



MA667
Polarizing Plate
(Polarizer)

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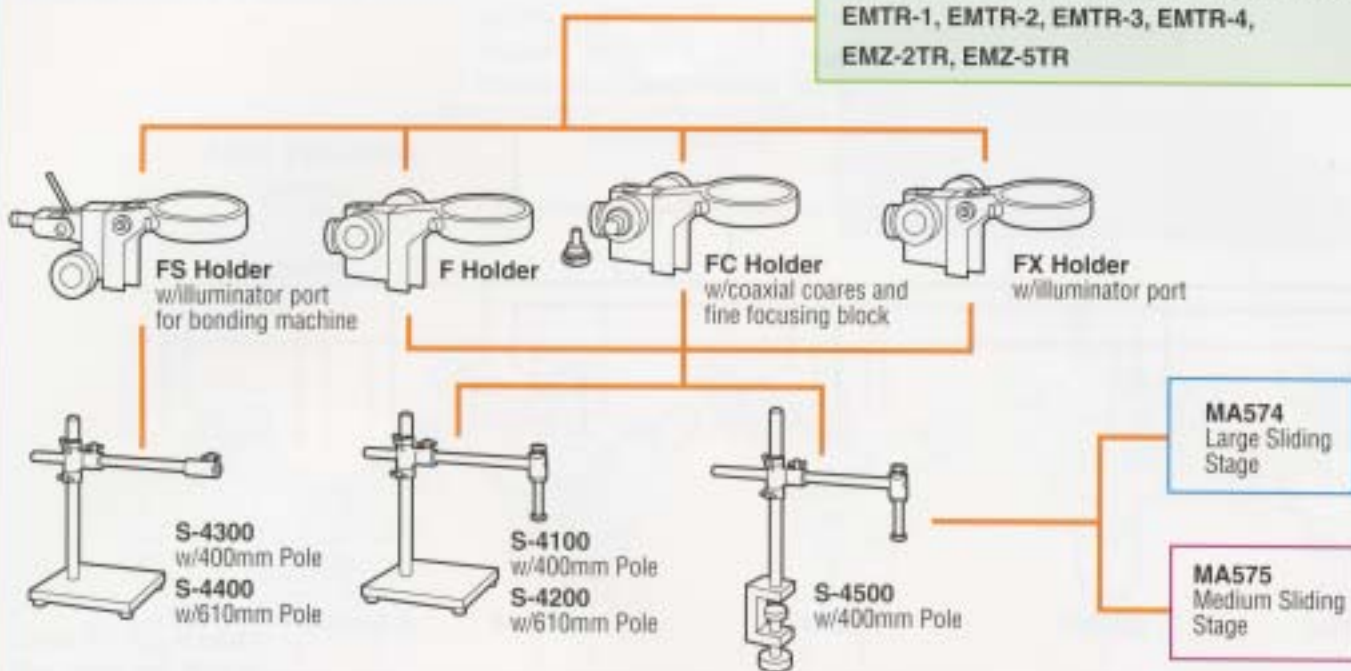
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EM Series SYSTEM DIAGRAM

PART 3. SPECIAL STANDS

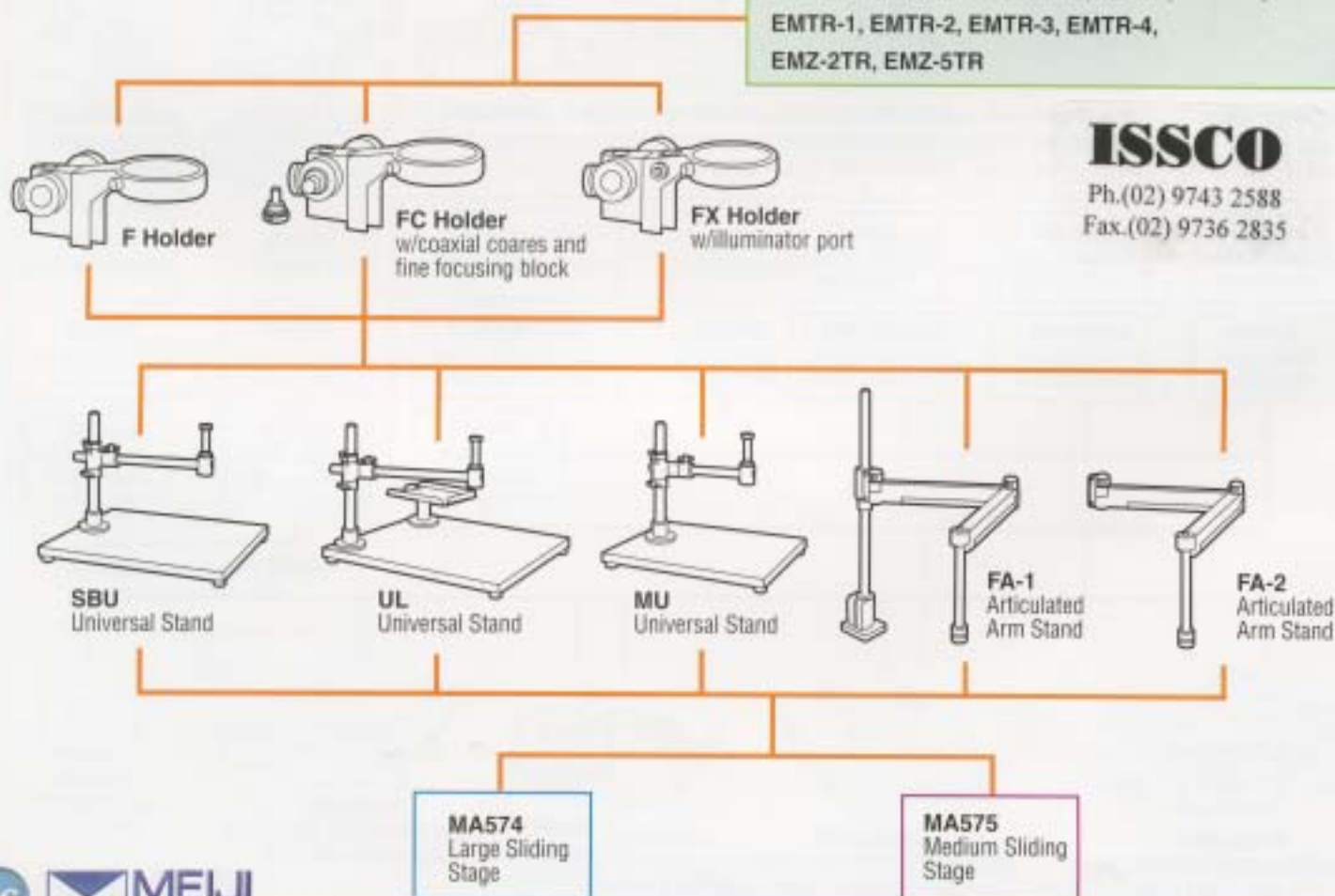
EM Series VIEWING HEADS

EMF-1, EMF-2,
EMT-1, EMT-2, EMT-3, EMT-4,
EMZ-1, EMZ-2, EMZ-5, EMZ-6, EMZ-9, EMZ-10, Z-7100
EMTR-1, EMTR-2, EMTR-3, EMTR-4,
EMZ-2TR, EMZ-5TR



EM Series VIEWING HEADS

EMF-1, EMF-2,
EMT-1, EMT-2, EMT-3, EMT-4,
EMZ-1, EMZ-2, EMZ-5, EMZ-6, EMZ-9, EMZ-10, Z-7100
EMTR-1, EMTR-2, EMTR-3, EMTR-4,
EMZ-2TR, EMZ-5TR

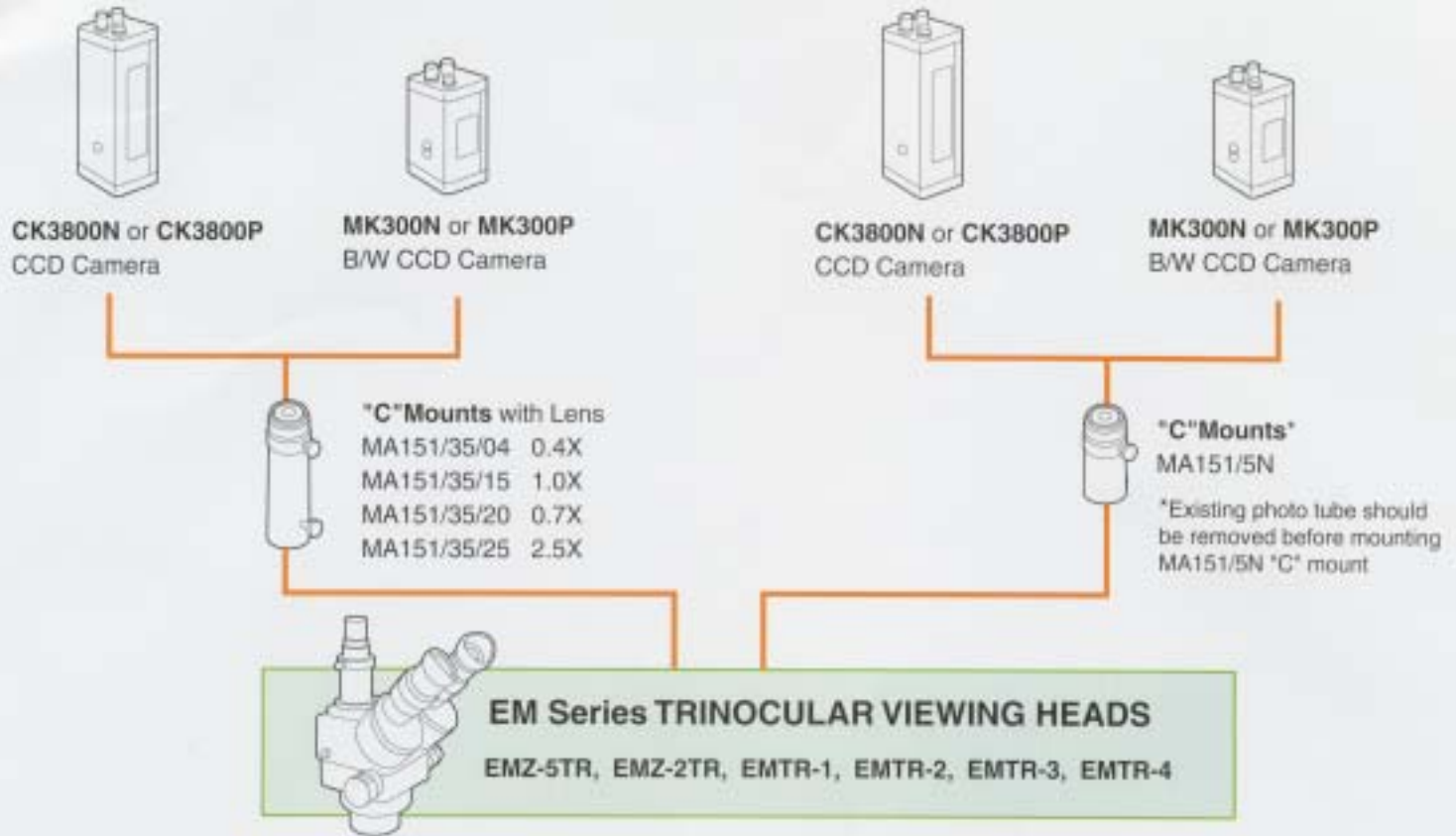


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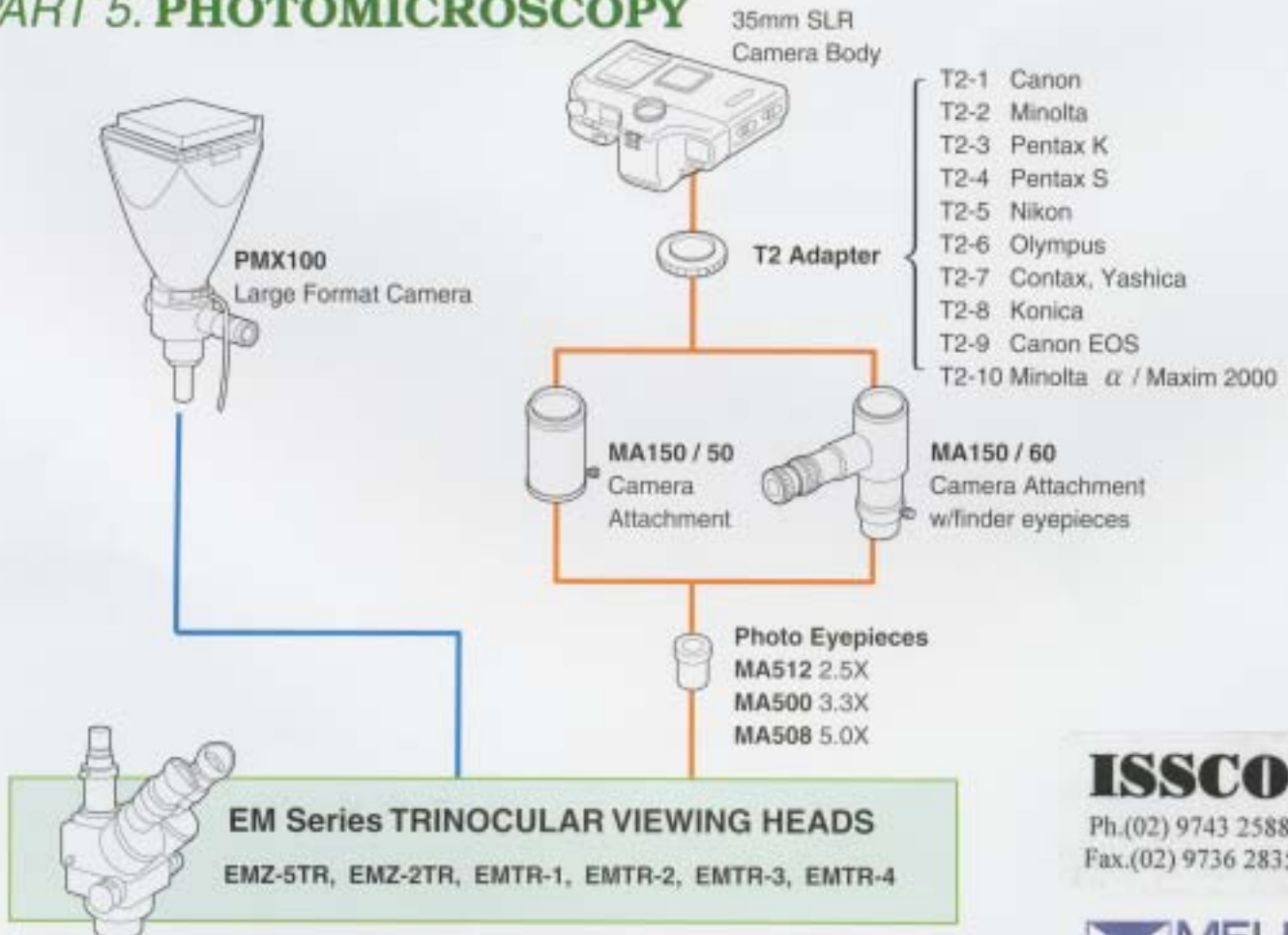
EM Series SYSTEM DIAGRAM

PART 4. VIDEO MICROSCOPY



EM Series SYSTEM DIAGRAM

PART 5. PHOTOMICROSCOPY



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