

Infinity Corrected Optical System

IM7500 SERIES

INVERTED BRIGHTFIELD / DARKFIELD METALLURGICAL COMPOUND MICROSCOPES



IM7520H



METALLURGICAL SERIES

IM7500

MEIJITECHNO



METALLURGICAL SERIES

INVERTED BRIGHTFIELD INDUSTRIAL GRADE COMPOUND MICROSCOPES

EQUIPPED WITH INFINITY CORRECTED OPTICAL SYSTEM F=200MM

VERSATILE SOLUTION FOR DEMANDING METALLURGICAL APPLICATIONS. THE IM7500 SERIES REPRESENTS A NEW STANDARD IN METALLURGICAL INSPECTION, COMBINING ADVANCED OPTICAL ENGINEERING WITH A RUGGED INVERTED DESIGN TAILORED FOR REAL-WORLD INDUSTRIAL ENVIRONMENTS.

The IM7500 Series is engineered for high-precision metallurgical inspection, delivering dependable performance in both brightfield and darkfield imaging. Its ergonomic inverted design allows operators to examine large, heavy, or irregularly shaped samples with ease, all while maintaining exceptional optical clarity and consistent illumination. This makes it an ideal choice for demanding industrial environments such as electronics, aerospace, automotive, machining, and materials research laboratories. Built to support detailed failure analysis, quality control, and routine inspection tasks, the IM7500 provides the level of accuracy and repeatability required for modern metallurgical workflows. Every component is designed to help users work efficiently, comfortably, and with confidence.

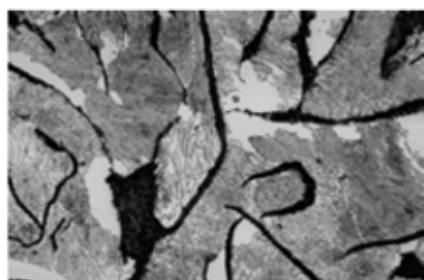


IMAGE OF IRON CAST ALLOY AT 100X

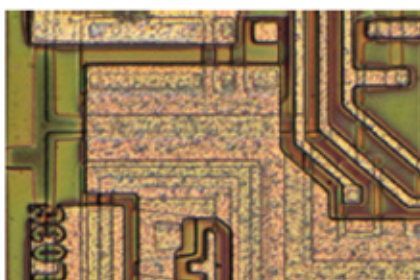


IMAGE OF INTEGRATED CIRCUIT DIE AT 100X

With a modular platform and multiple configuration options, the IM7500 Series adapts effortlessly to a wide range of applications and inspection requirements. Available in binocular and trinocular versions, it delivers sharp, high-contrast images that reveal fine microstructures, surface defects, inclusions, and edge details with remarkable clarity. Its durable construction and smooth mechanical performance ensure long-term stability, even in high-use industrial settings. The system's optical quality, combined with user-friendly ergonomics and flexible accessory options, makes the IM7500 a strong investment for professionals who need reliable, long-lasting equipment that consistently delivers accurate, repeatable results.



IM7510EH (FRONTAL VIEW)

INVERTED BRIGHTFIELD/DARKFIELD SYSTEMS - QUINTUPLE NOSEPIECE

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	POWER SUPPLY
IM7520H	Binocular	INCIDENT KOEHLER ILLUMINATOR 6V, 30W HALOGEN	SWH 10X F.N. 22 (O.D. 30mm) PAIRED	INFINITY CORRECTED OPTICAL SYSTEM F = 200mm Planachromat E5X Planachromat E10X Planachromat E20X Planachromat E50X LWD	ATTACHABLE MECHANICAL STAGE 112MM (X) X WITH DROP DOWN COAXIAL CONTROLS	AUTOMATIC VOLTAGE SENSING POWER SUPPLY 110V-240V
IM7510EH	Ergonomic Binocular					
IM7530H	Ergonomic Trinocular					

Designed for professionals who inspect large or heavy metal samples with precision. Its inverted design allows easy viewing of polished surfaces without repositioning bulky components. This makes it ideal for industrial QC labs, manufacturing environments, and materials research applications.



IDEAL FOR RESEARCH, INSPECTION,
AND INDUSTRIAL APPLICATIONS.



for METALLOGRAPHIC INSPECTION

VIEWING HEAD

Binocular 30° inclined tube
or or Trinocular Viewing
Head 30° inclined

ATTACHABLE
DIGITAL CAMERA
23.2mm PHOTO PORT

MODULAR DESIGN facilitates ATTACHMENT OF A VARIETY OF ACCESSORIES

EYEPIECES

Paired HWF 10X/20mm
F.O.V. 30.0mm with
diopter adjustment

STAGE

245mm x 180mm
Mechanical stage with
112mm X – 71mm Y
movement. Includes
removable stainless steel
stage clips.

OBJECTIVES

Reverse facing nosepiece
with Infinity Corrected Plan
EPI 5X, 10X, 20X and 50X
N.A. 1.25, W.D. 0.19mm,
180mm tube length

POLARIZER SLIDER

Easily insert and remove
the polarizer filter from the
light path. Enables
Polarized Light Microscopy

CAMERA PORT

It allows to use two
cameras at once when
combined with the top
trinocular port. Uses MA877
0.66X 'C' Mount

BEAM SPLITTER

Beam splitter 80/20 split
ratio, 80% light is directed
to the camera and the
remaining light 20% going
to the eyepieces

ILLUMINATION

Brightfield/Darkfield
illumination with a powerful
12V 50W Halogen or
optional LED system,
delivering bright, clear, and
accurate imaging for
metallurgical analysis.

ILLUMINATION ADJUSTMENT

Variable Intensity knob
increases or decreases
the intensity of the light
source.

ON/OFF SWITCH

Main power
control for the
light source

FOCUSING ADJUSTMENT

Coaxial coarse and 200 μ m
fine adjustments, 2 μ m
precision, Friction adjustment.
"Slip-clutch" system protects
against over-focusing

MECHANICAL DROPDOWN

Ergonomic X (112mm)
-Y (71MM) right handed
stage dropdown coaxial

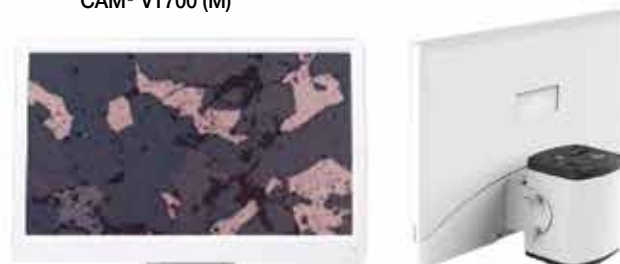
IM7530H

DIGITAL CAMERAS FOR MICROSCOPY

CAM® V1700 (M)	Monochrome 8.3 MP 1/1.7" CMOS 44 f/s USB 3.0 Digital camera with resolution 3840x2160 pixels
CAM® V3400	Color 5.1 MP 2/3" CCD 75 f/s USB 3.0 Digital camera with resolution 2464x2056 pixels
CAM® V3200	Color 3.2 MP 1/1.8" CMOS 120 f/s USB 3.0 Digital camera with resolution 2064x1544 pixels
CAM® V1400	Color 20 MP 1" CMOS 15 f/s USB 3.0 Digital camera with resolution 5472x3648 pixels
CAM® V1200 (C) HD	Color digital HD camera with monitor 6 MP 1/2.8" CMOS USB 3.0 Resolution 3264x1836 pixels Built-in 11.6" LCD screen Video record: 1080p high definition format



CAM® V1700 (M)



CAM® V1200 (C) HD

C MOUNT ADAPTERS

MA151/35/03	C" mount adapter with 0.3X lens
MA151/35/04	C" mount adapter with 0.45X lens
MA151/35/15	C" mount adapter with 1.0X lens
MA151/35/20	C" mount adapter with 0.7X lens
MA151/35/25	C" mount adapter with 2.5X lens
MA151/35/30	C" mount adapter with 1.5X lens
MA151/MT05	C" mount adapter with 0.5X lens



IM 7530+CAM V1200 HD+MA151/35/05



MA151/35/05 C-Mount
Adapter with 0.5X lens

COMPONENTS AND ACCESSORIES FOR IM7500 SERIES

EYEPIECE MICROMETERS (25MM DIAMETER) FOR USE WITH MA817 OR MA859 EYEPIECE)

MA523	Cross-line reticle, 25mm diameter
MA506	10mm divided into 100 units, 25mm diameter
MA509	5mm divided into 100 units, 25mm diameter
MA524	10mm square into 400 parts, 0.5mm square, 25mm diameter
MA510	10mm square into 100 parts, 1.0mm square, 25mm diameter
MA542	Cross-line with 0.1mm graduation, 25mm diameter
MA541	Photo framing reticle for SWF10X eyepiece
MA738	Eye-piece micrometer, for grain sizing in steel (25mm)

EYEPIECE MICROMETERS (19MM DIAMETER, FOR USE WITH MA818 OR MA819 EYEPIECE)

MA223	0.50" divided into 50 units, 19mm diameter
MA279	Cross-line reticle, 19mm diameter
MA280	10mm divided into 100 units, 19mm diameter
MA281	5mm divided into 100 units, 19mm diameter
MA282	10mm square into 400 parts, 0.5mm square, 19mm diameter
MA283	10mm square into 100 parts, 1.0mm square, 19mm diameter
MA539	Cross-line with 0.1mm graduations, 19mm diameter
MA253	Cross-line with dotted lines, 19mm diameter
MA254	Walton & Beckett reticle, 19mm diameter

**EYEPIECE
MICROMETER**
for grain sizing in steel (25mm)



MA738



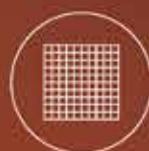
MA523



MA506



MA509



MA542



MA292

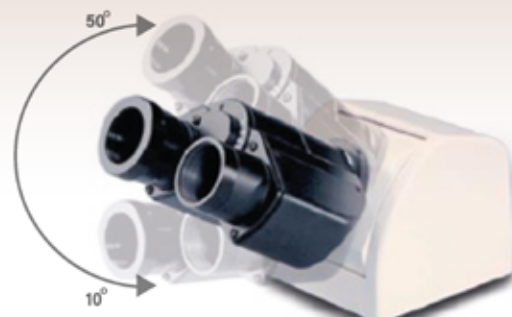
1mm divided into 100 parts

COMPONENTS AND ACCESSORIES FOR IM7500 SERIES

The Items marked with a Star (★) are included

VIEWING HEAD (without eyepieces)

- MA814/05** ★ Siedentopf type binocular head, inclined at 30°, I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (30mm I.D. eyetubes) with depolarizer (*Included in Model IM7100)
- MA816/15** ★ Siedentopf type trinocular head, inclined at 30°, I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (30mm I.D. eyetubes) with depolarize Includes 80/20 beam splitter (100% to eyetubes or 80% to photo 20% to eyetube) Non-Erect, Inverted image (*Included in Model IM7200)
- MA957/20** ★ Ergonomic binocular head, erect image, inclination adjustable vertically from 10° to 50° (With depolarizer) (*Included in IM7100E)
- MA1031** Trinocular Siedentopf head, erect image, inclined at 30°, I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (30mm I.D. eyetubes) with depolarizer (Optional viewing head) Includes 0/100 beam splitter (100% to eyetubes or 100% to phototube)



MA957/20
ERGONOMIC HEAD (Tilts 10° to 50°)

EYEPIECES

- MA817** ★ SWH 10X, widefield, high eyepoint eyepiece (each) Field No. 22 (MA817 accepts 25mm diameter reticle)
- MA818** SWH 15X, widefield, high eyepoint eyepiece (each) Field No. 16 (MA818 accepts 19mm diameter reticle)
- MA819** SWH 20X, widefield, high eyepoint eyepiece (each) Field No. 12 (MA819 accepts 19mm diameter reticle)
- MA859** SWF 10X-F, focusing widefield, high eyepoint eyepiece (each) Field No. 22 (MA859 accepts 25mm diameter reticle)



MA816/15
TRINOCULAR HEAD INCLINED AT 30°

BRIGHTFIELD/DARKFIELD PLAN EPI OBJECTIVES

- MA923** ★ Plan Semi Apo Epi BD 5X ∞ objective N.A. 0.10, F.L. 40.0, W.D. 17.00
- MA924** ★ Plan Semi Apo Epi BD 10X ∞ objective N.A. 0.25, F.L. 20.0, W.D. 07.48
- MA925** ★ Plan Semi Apo Epi BD 20X ∞ objective N.A. 0.40, F.L. 10.0, W.D. 04.30
- MA995** ★ Plan Semi Apo Epi BD 50X LWD ∞ objective N.A. 0.50, F.L. 04.0, W.D. 05.00

ADAPTER RING

- MA686/05** Adapter ring to mount RMS thread objectives to BF/DF nosepiece

ILLUMINATOR

- MA686/05** ★ Lamp House for use with 12V/50W Halogen Lamp. (Included in 50W models)

FILTERS

- MA275/25** ★ LB100 Blue clear 20mm diameter filter in metal mount, fits 25mm filter slot
- MA275/30** ★ G533 Green clear 20mm diameter filter in metal mount, fits 25mm filter slot
- MA275/50** ★ ND 50 Neutral density filter, 20mm diameter filter in metal mount, fits 25mm filter slot
- MA959** ★ Polarizing Filter, 20mm diameter filter in metal mount, fits 25mm filter slot



MA859
SWF 10X-F, FOCUSING WIDEFIELD

X - Y MECHANICAL STAGE IS INCLUDED WITH STAND (NOT SOLD SEPARATELY)

Dimension of top plate: 240mm (X) x 184mm (Y) with 50mm (X) x 40mm (Y) movement and drop down coaxial X - Y controls

- MA593** ★ Stage Clips, 4mm pin diameter, 75mm long (Paired)

STAGE MICROMETER (GLASS AND METAL)

- MA285** 1mm divided into 100 units, 0.01mm (Glass), 1" x 3" slide
- MA286** 0.04" divided into 40 units, 0.001" (Glass), 1" x 3" slide
- MA287** Ruling 0.01mm square (20 horizontal lines of 1mm long with 20 vertical lines of 1mm long crossed perpendicularly constructing a square of 0.2mm at the center with distance of 0.01mm between lines) (Glass)
- MA292** Metal stage micrometer, 0.01mm, for reflected light (Metal)
- MA186** Stage micrometer for checking alignment of stereo microscopes (Glass/Acrylic)
- MA187** Stage micrometer 10mm divided into 100 units, 0.1mm (Glass)

POWER CORDS

- MA809/10** ★ Removable AC Electric cord with plug for 115V models (Included in all 115V models)
- MA809/20** ★ Removable AC Electric cord with plug for 220V models (Included in all 220V models)

DUST COVER

- MA809/20** ★ Anti-static and washable dust cover for IM7000, IM7500, TC5100, TC5500 and MC systems, 11" x 25" x 26", blue color



MA995
PLAN SEMI APO EPI BD 50X (W.D. 0.5.00)



For further information
about the IM7000 Series,
scan this QR code.



100% MADE IN JAPAN

CUSTOMER SUPPORT (U.S.A Based) **1-(800) 832-0060** (P.S.T.)

• **Weight:** 33lbs (9.06kg) • **Box Size:** 16 x 14 x 21 inches • **Footprint:** 364mm (D) x 220mm (W) • **Manufactured:** 100% MADE IN JAPAN

IM7500 SERIES MICROSCOPES

"Your trusted tool for metallurgical laboratories and industrial inspection facilities worldwide."

Specifications and design subject to change without notice for improvements

MEIJI TECHNO CO.,LTD.

322-1, Chikumazawa Miyoshi-machi,
Iruma-gun Saitama 354-0043, Japan
Phone: (0)49-259-0111 Fax: (0)49-259-0113
Email: meiji@meijitechno.co.jp
www.meijitechno.co.jp

MEIJI TECHNO AMERICA

591 Division St., Campbell CA 95008
Toll free USA: 800-832-0060
Phone: 408-226-3454
Email: admin@meijitechno.com
www.meijitechno.com

MEIJI TECHNO EUROPE

Brown-Boveri-Straße 6, B17-1
2351 Wiener Neudorf, Austria
Phone: +43 (0) 2236 892465
Email: news@meijitechno-europe.com
www.meijitechno-europe.com

MEIJITECHNO

