



UNIMAC

ZOOM
MACROSCOPE



MEIJI LABAX UNIMAC ZOOM MACROSCOPE

At last, a fully Modular Universal Zoom Macroscope that lends itself to all applications including Photography with 35mm SLR and Polaroid Cameras and Closed Circuit Television display.

A visual magnification range from 3.5X to 135X (with optional lenses) shows the exceptional clarity and depth of field of the Meiji Labax Unimac.

FEATURES

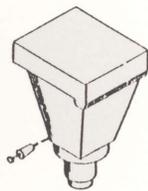
- Zoom Macroscopes of the compound type are being used in more and more research and industrial applications.
These instruments are uniquely capable where low magnification ranges and extraordinary depth of field are required. These characteristics make them most useful in the examination of whole devices and the study and control of mini-manufacturing processes.
- The MEIJI LABAX version of the Zoom Macroscope offers important advantages to the user. It is fully modular in concept and in construction. A universal range of the techniques can be quickly applied and all modes of observation – visual, photographic and television can be employed.
- Basic Zoom Macroscope magnification range goes from 0.7X to 4.5X, but this can be modified and extended by the four optional auxiliary lenses. In addition to ordinary illumination, true coaxial illumination is available and this is a special feature of the MEIJI LABAX instrument. A large field metallurgical illuminator gives coaxial illuminated images.
- Also offered for use with this is a 1/4 wave plate in rotatable mount which permits inspections in polarized light. This is especially useful when examining "overlay" circuits – in one orientation of the 1/4 wave plate, one of the circuits can be observed – and another overlaid circuit will be visible when the 1/4 wave plate is rotated 90°.

OPTICAL DATA

Objective (Zoom)	Auxiliary Lens	Magnification		Field of View (mm)		Working Distance (mm)	Working Distance when 1/4 wave plate is in use (mm)
		w/10X eyepiece	w/15X eyepiece	w/KHW10X (MA407)	w/HWF15X (MA408)		
0.7X – 4.5X		7X – 45X	10.5X – 67.5X	29.5 – 4.5	17.4 – 2.7	95	86
	0.5X	3.5X – 22.5X	5.25X – 33.75X	69.0 – 10.5	34.8 – 5.4	183	174
	0.75X	5.25X – 33.75X	7.87X – 50.62X	41.0 – 6.0	23.2 – 3.6	110	100
	1.5X	10.5X – 67.5X	15.75X – 101.25X	19.0 – 3.0	10.8 – 1.8	44	34
	2.0X	14X – 90X	21.0X – 135.0X	14.0 – 2.2	8.7 – 1.3	29	20

UNIMAC ZOOM MACROSCOPE SYSTEM DIAGRAM

PMS810
Polaroid
Photomicrographic
System

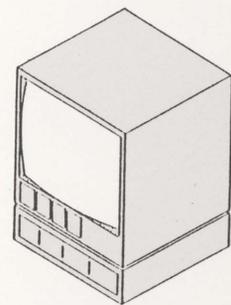


MA150/60PC
35mm SLR
Photomicrographic
System



CK1000
Color TV Camera
for microscope

TVC-8110
CCTV Camera B/W



TVM-90
Monitor 9"

MA512
2.5X



MA508
5X

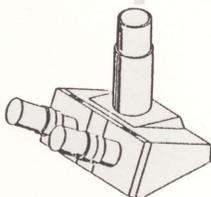


Photo
eyepieces

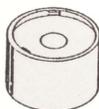


MA151/10
"C" Mount for CCTV

MS-2
Trinocular head
with Beam splitter



MS-1
Straight tube



MS-4
Intermediate tube



MS-3
Zoom Macroscope
Objective

AUXILIARY LENSES



MS-9
2.0X



MS-8
1.5X



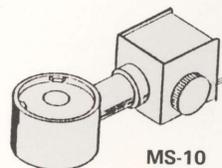
MS-7
0.75X



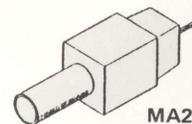
MS-6
0.5X



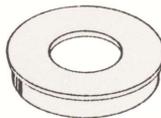
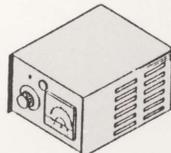
MS-11
1/4 wave plate



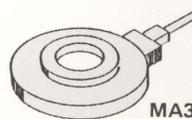
MS-10
Coaxial
illuminator



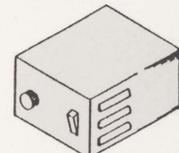
MA264
Versatile
Illuminator



MS-5
Adapter

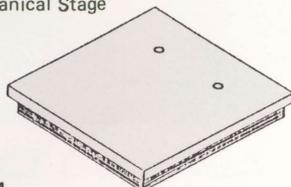


MA301
Ring fluorescent
illuminator

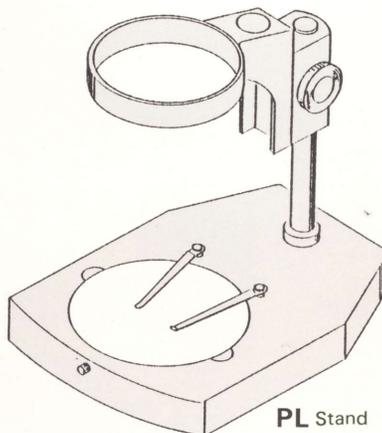
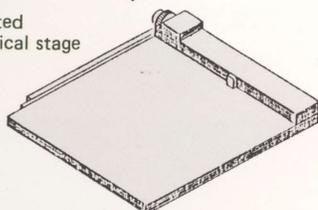


MS-12
Adapter

MA565
Ungraduated
Mechanical Stage



MA564
Graduated
Mechanical stage



PL Stand

CAT. NO. DESCRIPTION

MS-1	Straight tube for photomicrography or CCTV camera
MS-2	Trinocular head with vertical tube for photomicrography or CCTV camera
MS-3	Zoom Macroscope Objective 0.7X to 4.5X
MS-4	Intermediate tube
MS-5	Adapter for Stand or Holder
MS-6	Auxiliary lens 0.5X
MS-7	Auxiliary lens 0.75X
MS-8	Auxiliary lens 1.5X
MS-9	Auxiliary lens 2.0X
MS-10/100	Coaxial Illuminator, 6V 20W Halogen lamp, with variable transformer for 117V
MS-10/200	Coaxial Illuminator, 6V 20W Halogen lamp, with variable transformer for 220V – 240V
MS-11	1/4 wave plate in rotatable mount
MS-12	Adapter for ring fluorescent illuminator for 117V
MA264/100	Versatile Illuminator with transformer for 117V
MA264/200	Versatile Illuminator with transformer for 220/240V
MA301/100	Ring fluorescent illuminator with starter for 110V
MA301/200	Ring fluorescent illuminator with starter for 220/230V
MA301/250	Ring fluorescent illuminator with starter for 240V
MA151/10	"C" mount for CCTV camera
M150/60	Camera attachment with finder
MA150/60PC	35mm SLR Photomicrographic System (Includes camera body)
MA512	Photo eyepiece 2.5X for 35mm SLR photomicrography
MA508	Photo eyepiece 5X for 35mm SLR photomicrography
MA564	Graduated mechanical stage, 50mm x 75mm X-Y movement
MA565	Ungraduated mechanical stage, 100mm x 100mm X-Y movement
PL	P Stand with illuminator port
F	F Holder with focusing slide block
MA406	DIN HWF10X eyepiece 10X, field No. 18 (ea)
MA407	DIN KHW10X eyepiece 10X, field No. 20 (ea)
MA408	DIN HWF15X eyepiece, field No. 12.2 (ea)
MA409	DIN HWF 20X eyepiece, field No. 9 (ea)
MA413	DIN Focusing 10X eyepiece with cross-line (ea)
PMS810	Polaroid photomicrographic system
TVC-8110	CCTV Camera Black and White
TVM-90	9" monitor
CK1000	Color TV Camera for microscope



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