

The Meiji Techno SMD Inspection System has been specifically designed for the inspection of miniature electronic components and assemblies such as surfacemounted electronic devices on printed circuit boards.

The SMD system is ideally suited for quality-control applications and the rework and repair of solder connections of various electronic devices.



The SMD attachment allows the user to quickly change between vertical and oblique viewing methods by a simple one-touch slide movement of the SMD attachment. The oblique viewing angle is adjustable and can also be rotated through a full 360° range. Components and solder joints are easily inspected using the oblique viewing method without having to tilt or turn the circuit board.

A 103mm working distance allows for easy access to defective components and facilitates quick repair.



MODEL SMD-B INSPECTION SYSTEM MICROSCOPE

Complete set comprises:

EMZ-5 Binocular zoom stereo body, 0.7X

to 4.5X

MA503 SWF15X super widefield eyepiece

(paired)

MA504 SWF20X super widefield eyepiece

(paired)

MA571 SMD attachment (Includes built-in

0.3X lens for oblique observation and 0.44X for vertical observation)

F Focus block

UL Universal stand with rotatable stand

for light source

MA574 Sliding stage with 350mm X

270mm X-Y travel

FL151 Dual arm 150W fiber optic

illumination system

110/115



MODEL SMD-5TR INSPECTION SYSTEM MICROSCOPE

Complete set comprises:

EMZ-5TR Trinocular zoom stereo body, 0.7X to 4.5X

(EMZ-5TR directs light to right eyetubes and video tube simultaneously)

MA503 SWF15X super widefield eyepieces (paired)MA504 SWF20X super widefield eyepieces (paired)

MA571 SMD attachment (Includes built-in 0.3X lens for oblique observation and 0.44X for vertical observation)

F Focus block

UL Universal stand with rotatable stand for light source

MA574 Sliding stage with 350mm X 270mm X-Y travel

FL151 Dual arm 150W fiber optic illumination system 110/115

(Note: CCD Color video camera, video "C"mount and monitor are optional)



SMD

INSPECTION SYSTEM CONFIGURATIONS



MODEL SMD-8TR INSPECTION SYSTEM MICROSCOPE

Complete set comprises:

EMZ-8TR Trinocular zoom stereo body, 0.7X to 4.5X

(EMZ-8TR directs light to both eyetubes and video tube simultaneously)

MA503 SWF15X super widefield eyepieces (paired)

MA504 SWF20X super widefield eyepieces (paired)

MA797 SMD attachment for EMZ-8TR only.

(Includes built-in 0.35X lens for oblique observation

and 0.58X for vertical observation)

Focus block

UL Universal stand w/rotatable stand for light source

MA574 Sliding stage with 350mm X 270mm X-Y travel

FL151 Dual arm 150W fiber optic illumination system

110/115

(Note: CCD Color video camera, video "C" mount and

monitor are optional)

VIDEO MAGNIFICATION CHART

	MODEL	Magnification of zoom objective	Magnification on 13"monitor with 1/2"CCD	Magnification on 13"monitor with 1/3"CCD
	EMZ-5TR	0.7X	28.89X	38.52X
		1.0X	41.27X	55.03X
		1.5X	61.91X	82.54X
		2.0X	82.55X	110.06X
	MA571 and	2.5X	103.18X	137.58X
	MA151/5N	3.0X	123.82X	165.09X
		3.5X	144.46X	192.61X
		4.0X	165.10X	220.13X
		4.5X	185.73X	247.64X

MODEL	Magnification of zoom objective	Magnification on 13"monitor with 1/2"CCD	Magnification on 13"monitor with 1/3"CCD
	0.7X	28.89X	38.52X
	1.0X	41.27X	55.03X
EMZ-8TR	1.5X	61.91X	82.54X
with	2.0X	82.55X	110.06X
MA797 and MA151/5N	2.5X	103.18X	137.58X
	3.0X	123.82X	165.09X
	3.5X	144.46X	192.61X
	4.0X	165.10X	220.13X
	4.5X	185.73X	247.64X

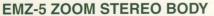
MODEL	Magnification of zoom objective	Magnification on 13"monitor with 1/2"CCD	Magnification on 13"monitor with 1/3"CCD
	0.7X	17.33X	23.11X
	1.0X	24.76X	33.01X
EMZ-8TR	1.5X	37.14X	49.52X
with	2.0X	49.53X	66.03X
MA797 and	2.5X	61.91X	82.54X
MA151/8TR	3.0X	74.29X	99.05X
	3.5X	86.67X	115.56X
	4.0X	99.06X	132.07X
	4.5X	111.44X	148.58X



ZOOM STEREO POWER PODS

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
- •Binocular eyetubes inclined at 45° for fatigue free viewing.
- •Dual dioptric adjustment (± 5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range.
- •Interpupillary distance adjustment from 54mm to 75mm.



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- •Zoom Ratio: 6.5:1
- •Binocular eyetubes inclined at 45° for fatigue free viewing.
- •Dual dioptric adjustment (± 5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range.
- •Interpupillary distance adjustment from 54mm to 75mm.





EMZ-8TR ZOOM STEREO BODY

Trinocular zoom body for use in training, video and photographic applications. The image can be viewed through both eyetubes and photo/video tube simultaneously without engaging a beam splitter. Ideally suited for training, monitoring and teaching situations.

- •Crisp, erect high resoluton images with excellent stereoscopic effect.
- •Rugged all metal body designed to last a lifetime.
- •Zoom range: 0.7X to 4.5X
- •Zoom ratio 6.5:1
- •Binocular eyetubes inclined at 45° for fatigue free viewing.
- •Dual diopter adjustment (±5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range.
- •Interpupillary distance adjustment from 54mm to 75mm.



MAGNIFICATION AND FIELD OF VIEW FOR EYEPIECES

MODEL	Magnification	Magnification	Field of view with SWF 15X eyepieces	Field of view with SWF 20X eyepieces	Working Distance	
	with SWF 15X eyepieces	with SWF 20X eyepieces			Oblique	n Vertical
EMZ-5 EMZ-5TR with MA571	3.15X~20.25X	4.62X~29.7X	11.4mm~73.0mm	8.5mm~54.7mm	103mm	103mm
EMZ-8TR with MA797	3.67X~23.62X	4.9X~31.5X	9.7mm~62.8mm	7.3mm~46.9mm	103mm	103mm



OTHER COMPONEN

SMD ATTACHMENT

Catalog No.MA571 Catalog No.MA797

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 103mm. Oblique working distance 103mm.

Note: MA571:For use with Zoom Stereo EMZ- 5, EMZ-5TR, EMZ-2 and EMZ-2TR bodies only. MA797:For use with Zoom Stereo EMZ-8TR body only.



MA571 or MA797



UNIVERSAL STAND

Model:UL

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.

Base: 580mm x 500mm x 38mm.

Dimensions:

Horizontal pole/Length: 480mm, Diameter: 25mm Vertical pole/Length: 365mm, Diameter: 29mm



SBU STAND

Model:SBU

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.

Base: 580mm x 500mm x 38mm.

Dimensions:

Horizontal pole/Length: 480mm, Diameter: 25mm Vertical pole/Length: 365mm, Diameter: 29 mm



HOLDER Model:F

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.

LARGE SLIDING STAGE

Catalog No.MA574

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.



MA574



FIBER OPTIC ILLUMINATION SYSTEMS AND VIDEO ACCESSORIES

FL151/115

Dual arm fiber optic illumination system -includes:150 Watt quartz halogen light source with variable intensity control, self-supporting dual arm light guides and 2 focusing lenses. 115VAC 50/60 Hz

FL151/200

Dual arm fiber optic illumination system -includes:150 Watt quartz halogen light source with variable intensity control, self-supporting dual arm light guides and 2 focusing lenses. 230VAC 50/60 Hz

CCD COLOR VIDEO CAMERA

Model:CK3100N	1/3" CCD	Color Video Camera,	NTSC
Model:CK3100P	1/3" CCD	Color Video Camera,	PAL
Model:CK3900N	1/2" CCD	Color Video Camera,	NTSC
Model:CK3900P	1/2" CCD	Color Video Camera,	PAL

FEATURES

- •450TV lines of horizontal resolution
- ●CCD sensor 768H x 494V NTSC, 752H x 582V PAL
- Electronic CCD-Iris for auto light control
- •Electronic shutter speed up to 1/10,000sec.
- •TTL auto tracking white balance (ATW) or preset
- •C and CS mountable
- CE Approved

Comprises:

Color TV camera ······1pc
AC Adapter 1pc
BNC Cable, 3M long ······ 1pc
S Cable, 3M long 1pc



FL151 Dual Arm Fiber Optic Illumination System



CK3900

SPECIFICATIONS

Model	CK3100N	CK3100P	CK3900N	CK3900P	
	High resolution				
CCD	1/3" Interline-Transfer type 1/2"Interline-Transfer ty				
Elements	768 (H) x 494 (V)	752 (H) x 582 (V)	768 (H) x 494 (V)	752 (H) x 582 (V)	
TV system	NTSC	PAL	NTSC	PAL	
Lens mount		C/CS-	Mount		
White balance	320	00°K / 4600°h	K/ 5600°K / A	TW	
AGC		O dB ~	~18 dB		
Shutter		1/60 (1/50)	~ 1/10,000		
Serial interface		RS232C			
Power		12V DC ±10% 450 TV Lines			
H.resolution					
S/N	'N 50 dB		dB		
Video output	VBS (y=0.45)				
Min.Sensity (AGC ON)		0.3 lux on CCD surface			
External sync		HD/VD, Com	posite Sync		
Power consumption		4.5W			
Storage temperature					
Operating temperature					
Dimensions	55 (W) x 45 (H) x 110 (L) mm			nm	
Net Weight	350g (TV Camera)				



CK3900,AC Adapter and Cables

Agent:



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