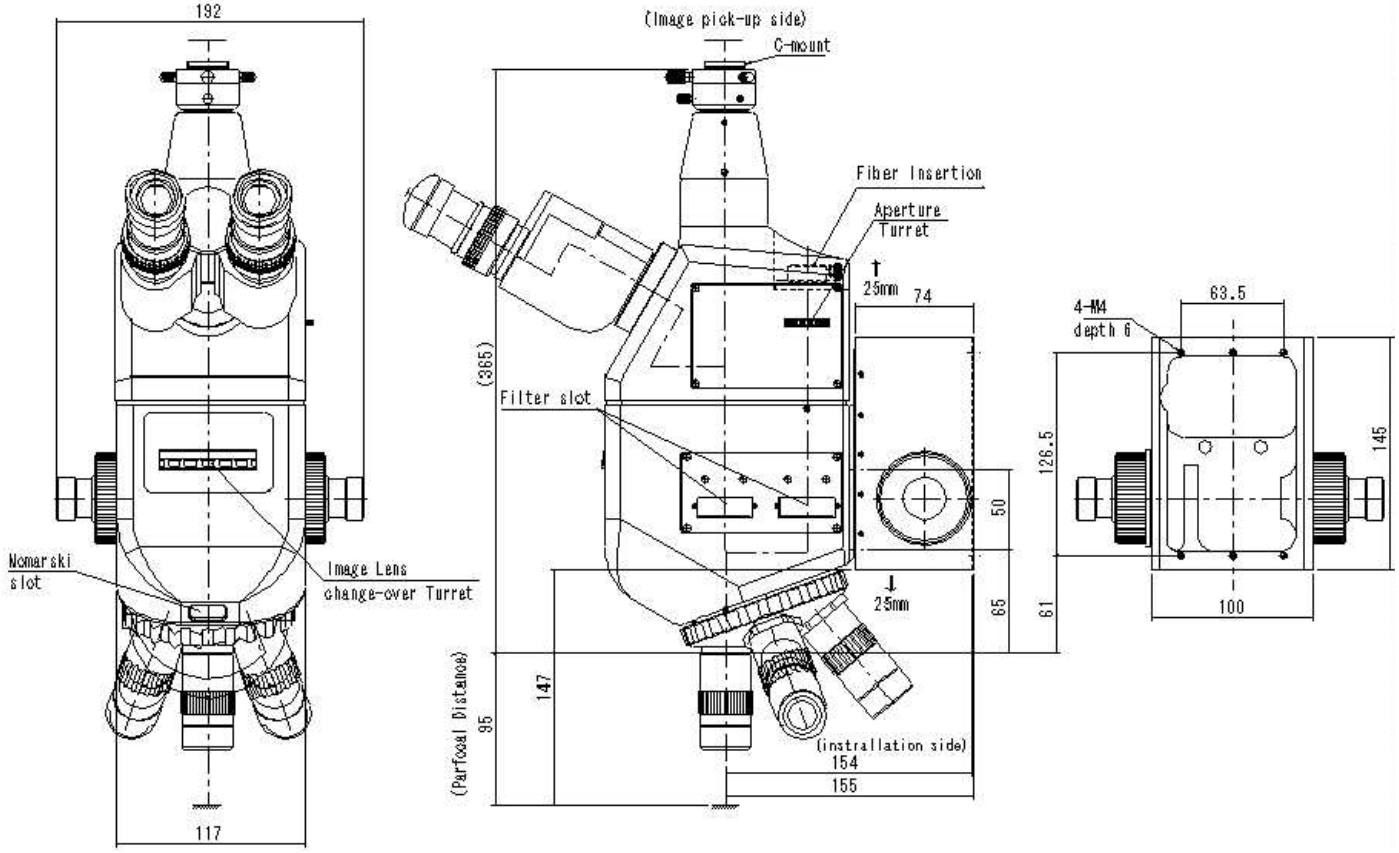
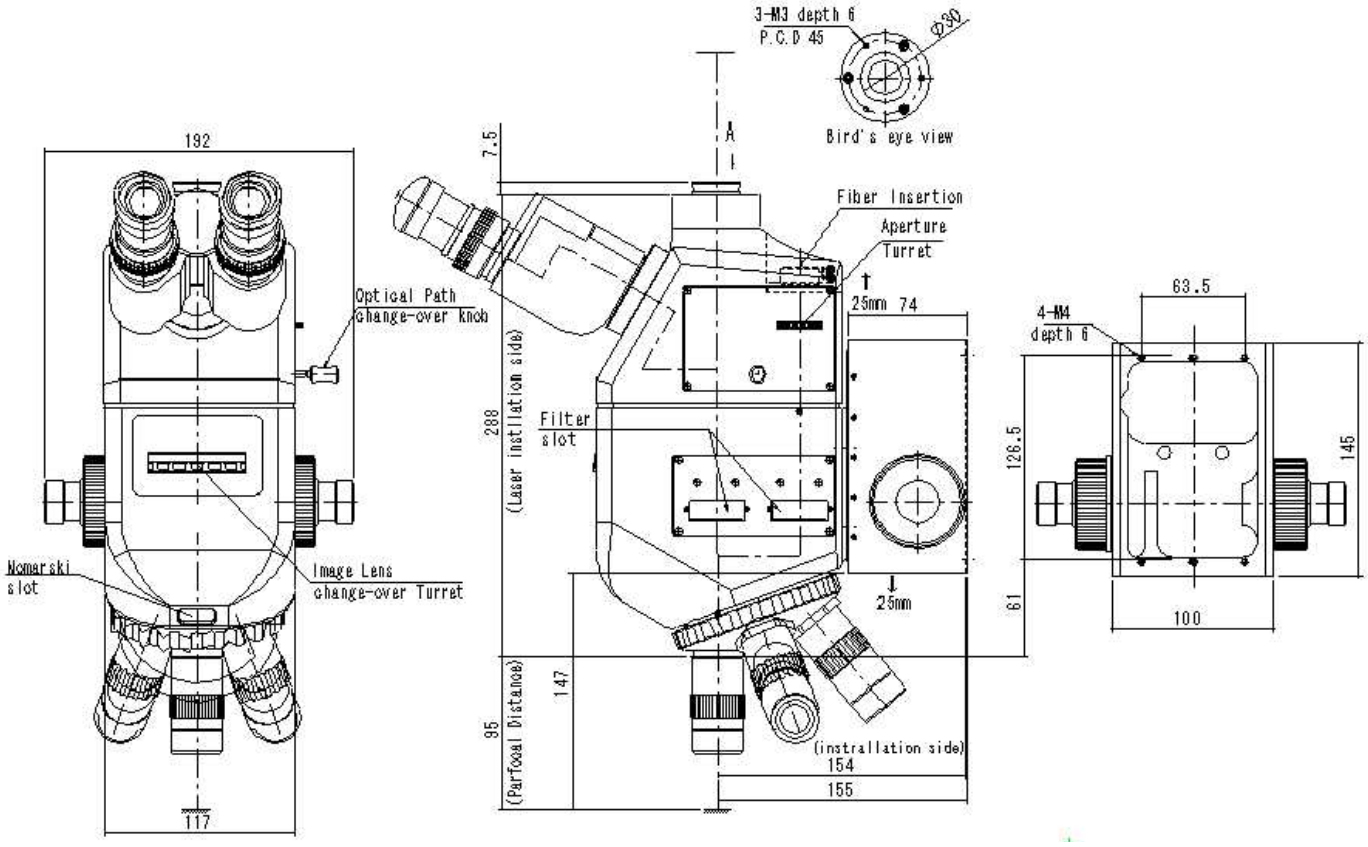
PS-888



PS-888L



SPECIFICATION:

Models		PS-888	PS-888L
Name		Microscope for Prober M/C	Microscope for Laser Cutter
Optical Tube Type		Visible Light	Infrared Ultraviolet Light
Erect Trinocular Tube	Interpupillary Distance	Siedentopf Type, Adjustment Distance : 50-75	
	Field of View	23mm	
	Optical Path	T:R=70:30 Simultaneous Observation	0:100/100:0 Switch path
Main Body	Tube Lens (Image Formation Lens)	1X(Visual), 2X(Visual) (486nm-656nm) Turret Changeover System	1X (355nm-532nm) 1X (532nm-1064nm) 2X (486nm-656nm) Use only for Visual
	Laser		YAG Laser (Basic, Second & Third Height)
Camera Mount		C-mount	Laser mount (N/W)
Coaxial Vertical Illumintaion		Bright Field Koelher Illumination with Field & Aperture Stop (Φ 14mm,Φ 10mm Capable)	
Revolver		Back Tilted 4 noses bright field type (Per Center & Par Focal adjustable)	
Eyepiece		10X 2pcs. Set (FWF10X) Standard accessory	
Available Objective Lens		Infinity Corrected Objective Lens (M.Plan APO Lenses)	
Weight		6.8kgs(14.99Lbs) w/manual focus block	7.5kgs(16.50Lbs) w/manual focus block
Focus Unit	Load Capacity	45kgs (99.1lbs)	
	Operation	Coarse and Fine manual operation (Coarse : 1 round/4mm, Fine : 1 round/0.1mm)	
	Stroke	±25mm (Total 50mm)	

"Laser can not be used with 2X tube"

OPTIONS :

Illuminator	Power Supply	FA-150CE / LA-150UE	1
	Fiber Light Guide	SL-B5-3000 (3M)	1
Motorized Turret		ARC-01	1
Motorized Focus		FC-02	1
Filter unit (Round Actuated)		PL-2	1
Nomarski Prism, 1/4 wave length with Polarizer and Analyzer		NP-3	1
Color Filter	Red	FC-R	1
	Green	FC-G	1
	Blue	FC-B	1
	Yellow	FC-Y	1
Eyepiece	10X	FWF10X	2
	15X	SWF15X	2
	20X	SWF20X	2
Objective Lens	2.5X	M.PlanAPO2.5X	1
	5X	M.PlanAPO5X	1
	10X	M.PlanAPO10X	1
	20X	M.PlanAPO20X	1
	50X	M.PlanAPO50X	1
	100X	M.PlanAPO100X	1

SEIWA OPTICAL CO.,LTD.

PS-888 Spectral Transmittance

Without Objective Lens, Through Prism
(Laser Power 100% at 1.64mj, Laser :NW Laser)

	355nm	532nm	1064nm
VL1X	29%	70%	50%
VL2X	27%	71%	49%

PS-888L, Laser Transmission Efficiency
(Data of when prism is pulled out)

Without Objective Lens (Laser Power 100% at 1.64mj, Laser : NW Laser)

Tube Lens / wave length	355nm	532nm	1064nm
UV1X	63%	73%	61%
IR1X	18%	72%	80%
VL2X	34%	74%	51%

With Objective Lens (Data taken by NW)

OBJ / Tube Lens	NUV	GREEN	NIR
50XNUV	33%	-	-
50XNIR	-	-	51%
Green	-	54%	-

Objectives are Mitutoyo 50X and 50 NIR

SUPER LONG WORKING DISTANCE OBJECTIVE LENSES

VISIBLE THROUGH IR- All in ONE objective Les

Apochromat and infinity Super Long Working Distance Objective Lenses are designed all in one objective lens which enables to use from visible wavelength through IR wavelength application. In addition to these objectives having very long working distances (15mm at 100X). This feature enables the user to fire a YAG laser (GREEN) through the objective, or use an IR Camera or IR band path filter to see through the semiconductor material without switching to a specially designed NIR objective lens.

M.PlanAPO Objective lens data (Indivisual)

	W.D.(mm)	f.length(mm)	N.A.	D.F	Resolution(u)
M.PlanAPO2.5XSB	32.00	80.0	0.06	162.9um	4.6
M.PlanAPO5.0XSB	35.10	40.0	0.15	31.3um	1.8
M.PlanAPO10XSB	36.91	20.0	0.25	9.6um	1.1
M.PlanAPO25XSB	22.00	10.0	0.40	3.3um	0.7
M.PlanAPO35XSB	21.70	5.7	0.42	2.3um	0.7
M.PlanAPO50XSB	18.30	4.0	0.45	1.3um	0.6
M.PlanAPO100XSB	14.10	2.0	0.55	0.9um	0.5

M.PlanAPO Objective lens data (with PS-888)

						Total Magnification w/ FWF10X		Total Magnification w/ 1/2"CCD, 9"monitor	
	W.D.(mm)	f.length(mm)	N.A.	D.F	Resolution(u)	1X tube	2X tube	tube 1X	tube 2X
M.PlanAPO2.5XSB	32.00	80.0	0.06	162.9um	4.6	25	50	72.5	145
M.PlanAPO5.0XSB	35.10	40.0	0.15	31.3um	1.8	50	100	145	290
M.PlanAPO10XSB	36.91	20.0	0.25	9.6um	1.1	100	200	290	580
M.PlanAPO25XSB	22.00	10.0	0.40	3.3um	0.7	200	400	580	1160
M.PlanAPO35XSB	21.70	5.7	0.42	2.3um	0.7				
M.PlanAPO50XSB	18.30	4.0	0.45	1.3um	0.6				
M.PlanAPO100XSB	14.10	2.0	0.55	0.9um	0.5				

FV w/1/2"CCD (H:6.4 X V:4.8mm)

	H(mm)	V(mm)
M.PlanAPO2.5XSB	2.56	1.92
M.PlanAPO5.0XSB	1.28	0.96
M.PlanAPO10XSB	0.64	0.48
M.PlanAPO25XSB	0.32	0.24
M.PlanAPO35XSB	0.183	0.137
M.PlanAPO50XSB	0.128	0.096
M.PlanAPO100XSB	0.064	0.048

M.PlanAPO Spectral Transmittance

	355nm	532nm	1064nm
M.PlanAPO2.5XSB	46%	85%	78%
M.PlanAPO5.0XSB	47%	87%	76%
M.PlanAPO10XSB	0%	80%	72%
M.PlanAPO25XSB	0%	84%	73%
M.PlanAPO35XSB	-	-	-
M.PlanAPO50XSB	0%	64%	77%
M.PlanAPO100XSB	-	-	-