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Laser Accessories

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Fitover Styles



#31 Small Fitover - 135mm x 50mm



#33 Medium Fitover - 145mm x 52mm



#36 Medium Adjustable Fitover -
140mm x 47mm



#38 Large Adjustable Fitover -
144mm x 50 mm



#39 Large Fitover - 145mm x 53mm



#40 Adjustable Fitover with Flip Lens
Non-CE



#51 Medium Fitover - 141mm x 45mm



#55 Medium Fitover - 145mm x 45mm
With Rx-Insert



#60 Softie Goggle
Non-CE



#700 Medium Fitover - 152mm x 52 mm
#900 Large Fitover - 155mm x 52 mm
#700 or #900

Non-Fitover Styles



#32 Wrap-Around
Non-CE



#34 Wrap-Around with Rx Insert -
132mm x 50mm



#35 Wrap-Around - 130mm x 46mm



#56 Wrap-Around - 137mm x 43mm



#KM Pediatric

	Filter #	VLT	Color	Optical Density (OD)	EN207	Style
UV-Visible	EC2	93%	Clear	7+ @190-398nm 7+ @9000-11000nm	Y	All
UV-Visible	ARG	48%	Orange	7+@190-532nm	Y	All
UV-Visible	KRY	10%	Red	5+@190-579nm	X	All
UV-Visible	HNE	18%	Blue	5+@190-400nm 5+@625-647nm 6+@655-664nm 6+@190-400nm 6+@659nm	X	All
UV-Visible	ZS1	48%	Aqua	5+@655-664nm 5+@190-380nm 5+@606-694nm	Y	All
UV-Visible	KRR	18%	Blue	5+@190-400nm 5+@662-835nm 4+@625-850nm 5+@633nm	X	All
UV-Visible	DI4	12%	Blue	5+@190-400nm 5+@662-835nm 4+@625-850nm 5+@633nm	Y	All
IR-755/810/980/1064	RD2	17%	Gray	5+@190-400nm 6+@680-710nm 5+@675-850nm 6+@740-835nm	Y	All
IR-755/810/980/1064	DI2	61%	Pink	6+@180-390nm 6+@800-818nm 5+@785-830nm	Y	All
IR-755/810/980/1064	DI3	32%	Amber	6+@190-532nm 5+@785-830nm 6+@800-815nm	Y	All
IR-755/810/980/1064	TRI	26%	Amber	7+@180-534nm 4+@770-850nm 5+@720-770nm 5+@850-1080nm 7+@750-760nm 7+@980-1064nm 5+@190-435nm	Y	All
IR-755/810/980/1064	CYN	36%	Green	5+@730-1085nm 7+@755nm 7+@1064nm	Y	All
IR-1064 / Ti:Sapphire/Nd:YAG Based	YG2	25%	Amber	6+@180-400nm 5+@720-1090nm 7+@750-1064nm	Y	All
IR-1064 / Ti:Sapphire/Nd:YAG Based	YG3	59%	Green	5+@190-400nm 4+@808-840nm 5+@ >840-950nm 7+@ >950-1080nm 5+@ >1080-1090nm	Y	All
IR-1064 / Ti:Sapphire/Nd:YAG Based	DBY	35%	Amber	7+@190-534nm 7+@960-1064nm 6+@925-1070nm 5+@850-925nm	Y	All

	Filter #	VLT	Color	Optical Density (OD)	EN207	Style
IR-1064 / Ti:Sapphire/Nd:YAG Based	DBD	22%	Amber	7+@190-534nm 7+@790-850nm 7+@>960-1070nm 5+@765-1090nm 6+@>850-960nm	Y	All
IR-1064 / Ti:Sapphire/Nd:YAG Based	YGN	33%	Amber	5+@190-400nm 3+@532nm 4+@808-850nm 6+@910-1070nm 5+@>850-1075nm	Y	All
Low OD Multiple-Line Diode / Visible /IR	DI6	35%	Green	5+@190-400nm 3+@670-695nm 3+@815-1050nm 2+@>1050-1080nm	Y	All
Low OD Multiple-Line Diode / Visible /IR	ML7	13%	Green	5+@190-400nm 2.5+@532nm 1.5+@630-655nm 3.7+@795-1070nm 4+@810-1064nm	X	All
Broadband IR	IRD5	16%	Green	6+@190-480nm 5+@800-1790nm 6+@820-950nm 7+@>950-1400nm 6+@>1400-1750nm	Y	All
Erbium 2940 combination	ERB	93%	Clear	5+@190-398nm 6+@2940nm 5+@2780nm 5+@10600nm	Y	All
Erbium 2940 combination	CO2	93%	Clear	5+@190-360nm 5+@10600nm	X	All
Visible Alignment	ABL	77%	yellow	5+@190-400nm 2+@430-470nm	Y	All
Visible Alignment	AL2	21%	Red	5+@190-380nm 2+@400-532nm		All
Visible Alignment	AG2	53%	Topaz	5+@180-400nm 2+@532nm	Y	All
Visible Alignment	AG3	47%	Topaz	5+@180-400nm 3+@532nm	Y	All
Visible Alignment	BGR	29%	Amber	5+@190-400nm 1.5+@440-470nm 1.5+@532nm 1+@633-640nm	Y	All
Visible Alignment	HEA	20%	Blue	5+@190-380nm 2+@630-650nm	X	All
Visible Alignment	DIA	39%	Blue	5+@190-380nm 1.5+@630-700nm	Y	All
Broadband IPL combinations	2PL	15%	Green	190-1200nm	Y	All
Broadband IPL combinations	3PL	7%	Green	190-1200nm	Y	All
Broadband IPL combinations	5PL	2%	Green	190-1200nm	Y	All
Broadband IPL combinations	YPL	7%	Green	6+@190-390nm 1+@560-590nm	Y	All
Mineral Glass Filters	FG1	75%	Clear	3+@850-5200nm 5+@945-2300nm 4+@2300-2500nm 5+@2800-10600nm 7+@1010-1500nm	Y	#37, #11



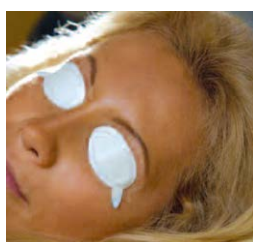
Polymer Windows



Model #	VLT	Color	Specifications	Material	Size
UNILWIN-YAG	63%	Green	OD >3 @ 805-840nm, OD >4 @ 841-870nm, OD >5 @ 871-920nm, OD >6 @ 921-1064nm, OD >5 @ 1064-1070nm, OD >8 @ 10600nm	Polymer	60x90cm
UNILWIN-YAG/CO2x4	63%	Green	OD >3 @ 805-840nm, OD >4 @ 841-870nm, OD >5 @ 871-920nm, OD >6 @ 921-1064nm, OD >5 @ 1064-1070nm, OD >8 @ 10600nm	Polymer	90x120cm
UNILWN-YAG-FIBER	50%	Green	OD7@980nm, OD7 @1064-1080nm	Polymer	60x90cm
UNILWIN-ARGON/KTP	37%	Amber	OD 4-5 @ 200-532 nm	Polymer	60x90cm
UNILWIN-ARG/KTP3x4	37%	Amber	OD 4-5 @ 200-532 nm	Polymer	90x120cm
UNILWIN-YAG/KTP	26%	Copper	OD 4-5 @ 200-532nm, OD >5 @ 1064nm	Polymer	60x90cm
UNILWIN-YAG/KTP3x4	26%	Copper	OD 4-5 @ 200-532nm, OD >5 @ 1064nm	Polymer	90x120cm
UNILWIN-EX/CO2	90%	Clear	OD >5 @ 190-370nm, OD >8 @ 10,600nm	Polymer	60x90cm
UNILWIN-EX/CO2x4	90%	Clear	OD >5 @ 190-370nm, OD >8 @ 10,600nm	Polymer	90x120cm
UNIL99-LWIN-HENE	42%	Blue	OD 1-2 @633nm, OD4-5@670nm, OD3.8-5@680nm	Polymer	60x90cm
UNIL99-LWIN-RDIO	19%	Green	OD>4@610-695nm	Polymer	60x90cm
UNI31-005	65%	Light Gray	OD >7 @ 940-1000nm, OD >8 @ 1000-1100nm, OD >7 @ 1100-1400nm.	Glass	100x200mm
UNI31-005LW	65%	Light Gray	OD >7 @ 940-1000nm, OD >8 @ 1000-1100nm, OD >7 @ 1100-1400nm.	Glass	297x210mm

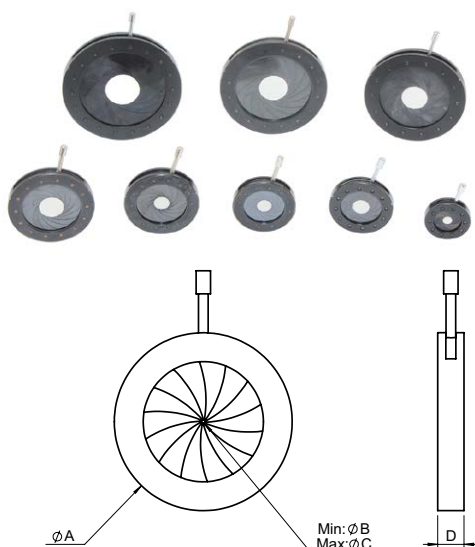
Eyeshields

Sperian is the worldwide leader in Laser, IPL (Intense Pulsed Light) and Eye Shields. Our range of products for this market includes our patented disposable and reusable Client Eye Shields for Laser, IPL, Microdermabrasion and Chemical Peel procedures.



Model#	Description	CE
UNI31-8300	Laser-Aid, 24 pr/box Protection Level: OD 7 @ 190-11,000nm	CE
UNI31-9300	IPL-Aid, 50 pr/box Provides protection from the wavelengths emitted from IPL devices hence blocking out the bright light commonly associated with IPL systems.	CE
UNI31-8400	LED Aid, 50 pr/box Provides protection from LED devices of all wavelengths from 315-1400nm and low-powered (<1 watt) lasers. Protection Level: OD 4 @ 315-1400nm	CE
31-7313 31-7308	SpectraShield – white SpectraShield - black This lightweight alloy laser-resistant eye shield for clients has an adjustable nose-piece and headband. Protection Level: OD 7 @ 190nm-11,100nm.	

Unmounted Iris Diaphragms



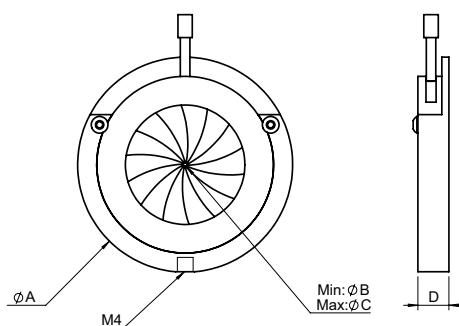
- * Continuously Varilable Aperature.
- * Standard Black Spring Steel Leaves.
- * Min. Aperature: 0.8 ~ 1.5 mm
- * Max. Aperature: 18 ~ 42 mm
- * Thickness: 5.0 ~ 6.5 ± 0.03 mm
- * Holder not including.

Model No.	A (mm)	Aperture (mm)		D(mm)
		B	C	
ID0818	28.0	0.8	18.0	5.0
ID0822	33.0	0.8	22.0	5.5
ID0825	37.0	0.8	25.0	5.5
ID1012	19.8	1.0	12.0	5.0
ID1018	28.0	1.0	18.0	5.0
ID1334	49.0	1.3	34.0	6.5
ID1537	53.0	1.5	37.0	6.0
ID1542	58.0	1.5	42.0	6.5

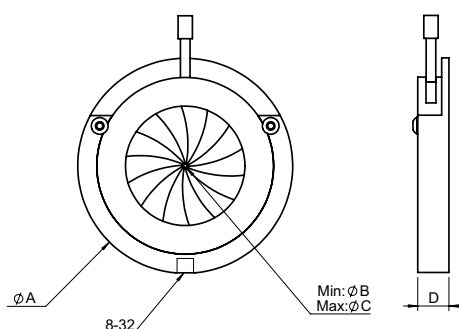
Mounted Iris Diaphragms



- * Continuously Varilable Aperature.
- * Standard Black Spring Steel Leaves.
- * Min. Aperature: 0.8 ~ 1.5 mm
- * Max. Aperature: 18 ~ 42 mm
- * Thickness: 5.0 ~ 6.5 ± 0.03 mm
- * Holder including.
- * M4(8-32) thread hole on the bottom for post mounted.



ID M Series



ID E Series

Model No.	A (mm)	Aperture (mm)		D(mm)
		B	C	
ID0818M	36.0	0.8	18.0	6.0
ID0822M	41.0	0.8	22.0	6.5
ID0825M	45.0	0.8	25.0	6.5
ID1012M	27.0	1.0	12.0	6.0
ID1018M	36.0	1.0	18.0	6.0
ID1334M	57.0	1.3	34.0	7.5
ID1537M	61.0	1.5	37.0	7.0
ID1542M	66.0	1.5	42.0	7.5
ID0818E	36.0	0.8	18.0	6.0
ID0822E	41.0	0.8	22.0	6.5
ID0825E	45.0	0.8	25.0	6.5
ID1012E	27.0	1.0	12.0	6.0
ID1018E	36.0	1.0	18.0	6.0
ID1334E	57.0	1.3	34.0	7.5
ID1537E	61.0	1.5	37.0	7.0
ID1542E	66.0	1.5	42.0	7.5

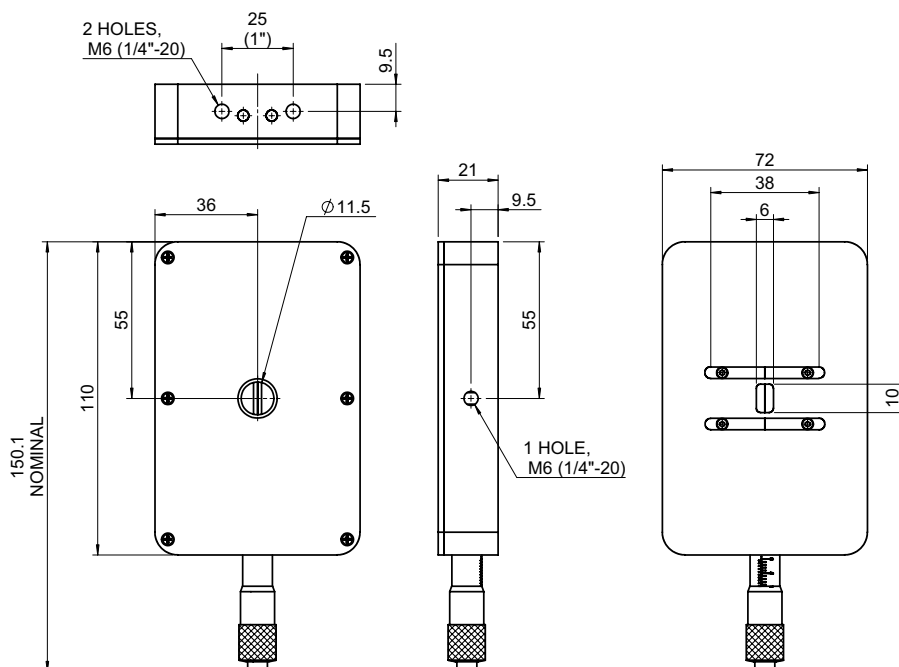
Adjustable Width Slit



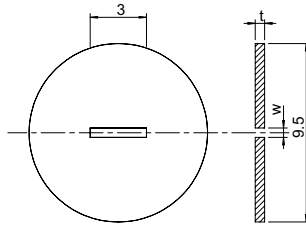
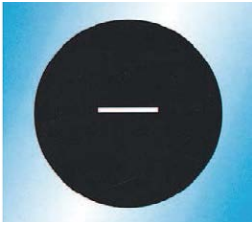
SL-501M

- * The mechanical slit provides precise adjustment of two steel knife blades.
- * Trapezoidal slide and compression spring design, smooth and stable adjustment.
- * Micrometer-driven adjustment of two blades centered equally open (or close).
- * Half of micrometer reading corresponds to the actual move slit width.
- * Slit length: 10mm.
- * The slit width ranges from fully closed to 5mm.
- * M6 (1/4"-20) threaded holes on the side and bottom for mounting pedestal or posts.

	Model	W(kgs)
Metric (mm)	SL-501M	0.41
English (inch)	SL-501	0.41



Precision Air Slits

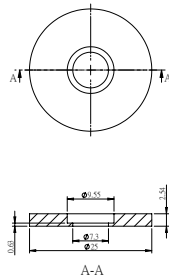


Specifications

- * Material: Stainless Steel Non Magnetic
- * Thickness: 0.0127mm / 0.0005"
- * Diameter: 9.53mm / 0.375"
- * Substrate Finish: None
- * Slit Length: 3mm

Model	Slit Width (W)	Slit Length
ST-002	2.5 μ m +1/-0.5 μ m	3mm
ST-005	5.0 μ m $\pm$ 1 μ m	3mm
ST-010	10.0 μ m $\pm$ 1 μ m	3mm
ST-025	25.0 μ m $\pm$ 2 μ m	3mm
ST-050	50.0 μ m $\pm$ 3 μ m	3mm
ST-100	100.0 μ m $\pm$ 4 μ m	3mm
ST-150	150.0 μ m $\pm$ 4 μ m	3mm
ST-200	200.0 μ m $\pm$ 4 μ m	3mm

Mounted Precision Air Slits

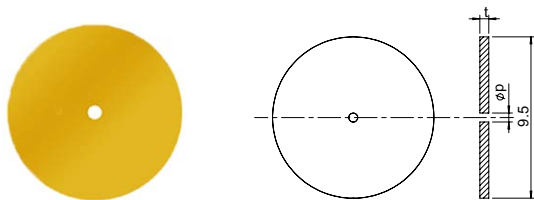


Specifications

- * Material: 300 series stainless steel
- * Housing: 25mm diameter blackened aluminum mount.
- * Mounted thickness: 2.54mm"

Model	Slit Width	Slit Length
ST-002M	2.5 μ m +1/-0.5 μ m	3mm
ST-005M	5.0 μ m $\pm$ 1 μ m	3mm
ST-010M	10.0 μ m $\pm$ 1 μ m	3mm
ST-025M	25.0 μ m $\pm$ 2 μ m	3mm
ST-050M	50.0 μ m $\pm$ 3 μ m	3mm
ST-100M	100.0 μ m $\pm$ 4 μ m	3mm
ST-150M	150.0 μ m $\pm$ 4 μ m	3mm
ST-200M	200.0 μ m $\pm$ 4 μ m	3mm

High Energy Precision Pinholes



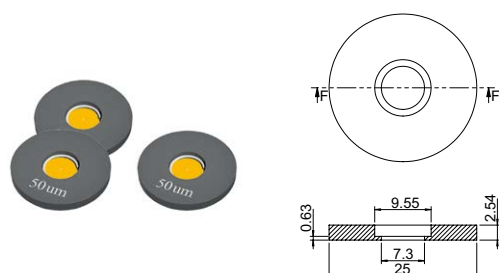
Specifications

- * Material: Copper
- * Thickness: 0.152mm / 0.006"
- * Diameter: 9.53mm / 0.375"
- * Finished: Gold Plated and black anodized

One surface is coated with gold to reflect the incoming high energy laser radiation

Model	Pinhole Diameter
HPH-0005	5 μ m $\pm$ 1 μ m
HPH-0010	10 μ m $\pm$ 1.0 μ m
HPH-0015	15 μ m $\pm$ 1.5 μ m
HPH-0025	25 μ m $\pm$ 2.0 μ m
HPH-0050	50 μ m $\pm$ 3.0 μ m
HPH-0100	100 μ m $\pm$ 4.0 μ m
HPH-0200	200 μ m $\pm$ 6.0 μ m

Mounted High Energy Precision Pinholes

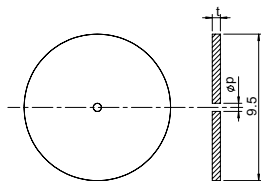


Specifications

- * Pinhole Material: Copper
- * Pinhole Finish: Gold plated and black finish
- * 6.5mm diameter clear aperture:
- * Housing: 25mm diameter blackened aluminum mount.
- * Mounted thickness: 2.54mm
- * Engraved aperture size on it.

Model	Pinhole Diameter
HPH-0005M	5 μ m $\pm$ 1 μ m
HPH-0010M	10 μ m $\pm$ 1.0 μ m
HPH-0015M	15 μ m $\pm$ 1.5 μ m
HPH-0025M	25 μ m $\pm$ 2.0 μ m
HPH-0050M	50 μ m $\pm$ 3.0 μ m
HPH-0100M	100 μ m $\pm$ 4.0 μ m
HPH-0200M	200 μ m $\pm$ 6.0 μ m

Precision Pinholes

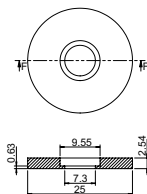


Specifications

- * Material: Stainless Steel Non Magnetic
- * Thickness: 0.0127mm / 0.0005"
- * Diameter: 9.53mm / 0.375"
- * Substrate Finish: None

Model	Pinhole Diameter	Thickness(mm)
PH-0002	2μm ±0.5μm	0.013mm
PH-0003	3μm ±0.5μm	0.013mm
PH-0005	5μm ±1μm	0.013mm
PH-0010	10μm ±1.0μm	0.013mm
PH-0015	15μm ±1.5μm	0.013mm
PH-0020	20μm ±2.0μm	0.025mm
PH-0025	25μm ±2.0μm	0.025mm
PH-0030	30μm ±2.0μm	0.025mm
PH-0035	35μm ±2.0μm	0.025mm
PH-0040	40μm ±3.0μm	0.025mm
PH-0050	50μm ±3.0μm	0.025mm
PH-0075	75μm ±3.0μm	0.025mm
PH-0100	100μm ±4.0μm	0.025mm
PH-0150	150μm ±6.0μm	0.051mm
PH-0200	200μm ±6.0μm	0.051mm
PH-0300	300μm ±8.0μm	0.051mm
PH-0400	400μm ±10.0μm	0.051mm
PH-0500	500μm ±10.0μm	0.051mm
PH-0600	600μm ±10.0μm	0.051mm
PH-0700	700μm ±10.0μm	0.051mm
PH-0800	800μm ±10.0μm	0.051mm
PH-0900	900μm ±10.0μm	0.051mm
PH-1000	1000μm ±10.0μm	0.051mm

Mounted Precision Pinholes



Specifications

- * Housing: 25 diameter blackened aluminum mount.
- * Mounted thickness: 2.54mm
- * Engraved aperture size on it

Model	Pinhole Diameter	Thickness(mm)
PH-0002M	2μm ±0.5μm	0.013mm
PH-0003M	3μm ±0.5μm	0.013mm
PH-0005M	5μm ±0.8μm	0.013mm
PH-0010M	10μm ±1.0μm	0.013mm
PH-0015M	15μm ±1.5μm	0.013mm
PH-0020M	20μm ±2.0μm	0.025mm
PH-0025M	25μm ±2.0μm	0.025mm
PH-0030M	30μm ±2.0μm	0.025mm
PH-0035M	35μm ±2.0μm	0.025mm
PH-0040M	40μm ±3.0μm	0.025mm
PH-0050M	50μm ±3.0μm	0.025mm
PH-0075M	75μm ±3.0μm	0.025mm
PH-0100M	100μm ±4.0μm	0.025mm
PH-0150M	150μm ±6.0μm	0.051mm
PH-0200M	200μm ±6.0μm	0.051mm
PH-0300M	300μm ±8.0μm	0.051mm
PH-0400M	400μm ±10.0μm	0.051mm
PH-0500M	500μm ±10.0μm	0.051mm
PH-0600M	600μm ±10.0μm	0.051mm
PH-0700M	700μm ±10.0μm	0.051mm
PH-0800M	800μm ±10.0μm	0.051mm
PH-0900M	900μm ±10.0μm	0.051mm
PH-1000M	1000μm ±10.0μm	0.051mm



International Standard Microscope Objectives



MSO-1

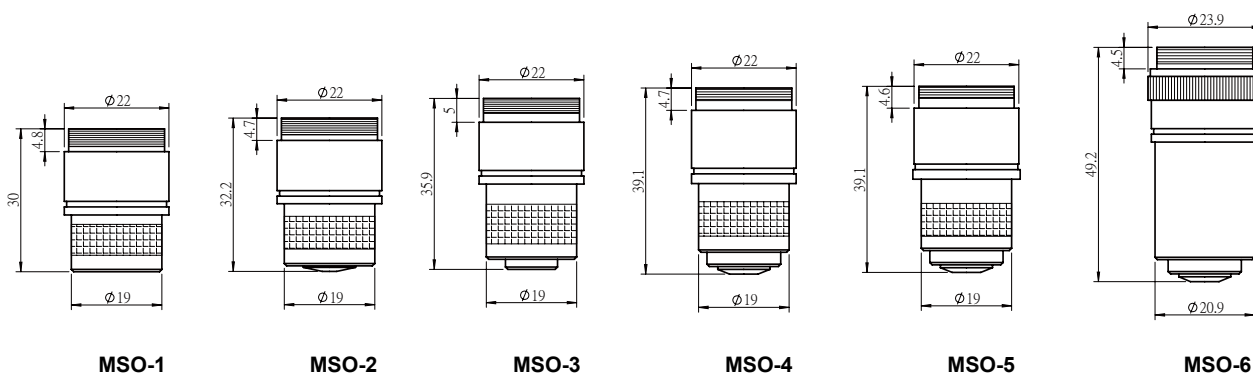
MSO-2

MSO-3

MSO-4

MSO-5

MSO-6



MSO-1

MSO-2

MSO-3

MSO-4

MSO-5

MSO-6

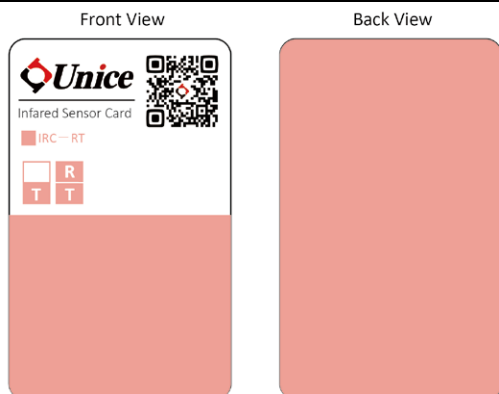
Specifications

This series of objective lens are used for microscope, spatial filter (07SFM-1M and 07SFE Series) and all other applications.
* Provide various model for usage

Model	Magnification	N.A.	W.D (mm)	MTL (F)	RMS (0.8"-36)
MSO-1	4 X	0.10	35.6	160	20.2
MSO-2	10 X	0.25	7.63	160	20.2
MSO-3	20 X	0.40	1.61	160	20.2
MSO-4	40 X	0.65	0.53	160	20.2
MSO-5	60 X	0.85	0.23	160	20.2
MSO-6	100 X	1.25	0.19	160	20.2

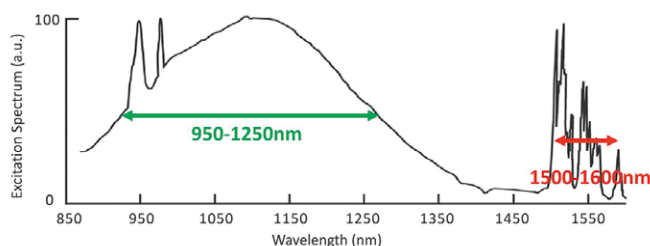
* RMS (0.8"-36) thread

IR Viewing Card



Model#	IRC-RT
Peak emission (nm/color)	Green (545nm)@950~980nm; Red (670nm)@1500~1600 nm; Red (650nm)@others wavelengths
Excitation range	800 ~ 1600nm Especially at 950nm, 980nm, 1064nm, 1500nm
Base material	PVC ISO card standard format with reflective/ transmissive (Two in one) base
Approx Min IR intensity	At least 3800uW/cm2 @ 1550nm (in room light) At least 67uW/cm2 @ 1550nm (in dark)"
Active Area	42mmx54mm (Transmissive) 42mmx54mm (Reflective)

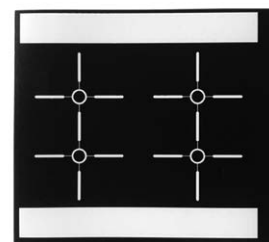
Technical information:



ZAP-IT® Alignment Paper



Use ZAP-IT® Laser Alignment Paper to see and record laser beam energy density. The ZAP-IT® laser burn paper products have wide dynamic ranges of sensitivity from UV to long IR. We offer several stock sizes and configurations. Please inquire about custom sizes and packaging options.



P/N ZL-22
ZAP-IT® Low Energy Paper Targets



P/N Z-48 - 4x8 inches - 50sheets
ZAP-IT® Paper 4 x 8 inches



P/N Z-25 - 2.25x5 inches - 75sheets
ZAP-IT® Paper 2 x 5 inches



P/N Z-33 - 3x3 inches - 75sheets
ZAP-IT® Paper 3 x 3 inches



P/N Z-66 - 6x6 inches - 100sheets
ZAP-IT® Paper 6 x 6 inches



P/N ZG-48 - 4x8 inches - 50sheets
With a 2mm GRID
ZAP-IT® Paper 4 x 8 inches



P/N ZFC-23 - 2x3 inches - Pkg of 50
ZAP-IT Card with Low Tack on Back
ZAP-IT® Film Card



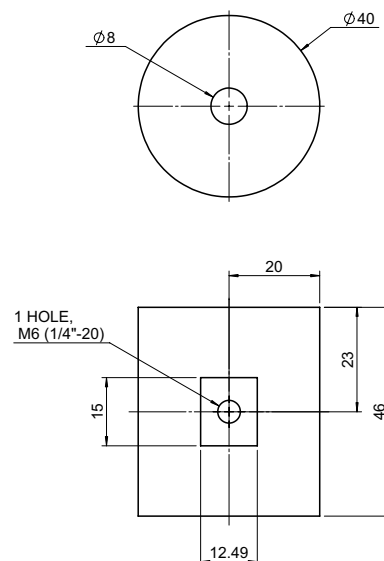
Low Power Beam Dump



07BDA-1M

- * Visible beam dump absorbs for low power CW only.
- * This is designed to be the terminal piece of an optical system and absorb the incident laser beam.
- * Size dimension: diameter 40mm x 46mm length.
- * Internal cone shape design to produce scattering and absorption effect.
- * The maximum entrance aperture is diameter 8mm.
- * M6(1/4"-20) thread holes on the bottom for post combination.
- * Aluminum alloy material and black anodized.
- * Take it must be carefully because it would be hot when laser beam inside too long.

	Model	W(kgs)
Metric (mm)	07BDA-1M	0.1
English (inch)	07BDA-1	0.1



Diode Pump Solid State Green Laser



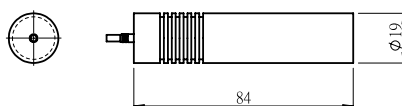
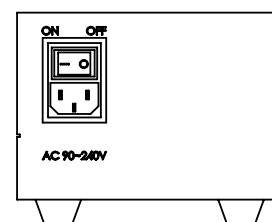
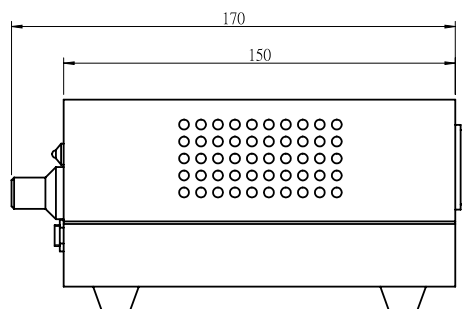
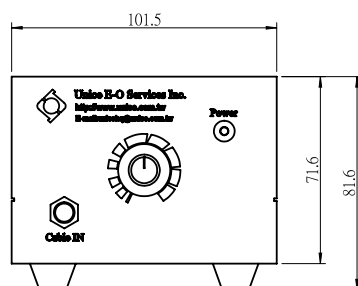
UGL-532 Series

- * Cost Effective
- * Cylindrical Design for Easy Hold
- * Wavelength: 532nm CW
- * Output Power: Adjustable by Thumbscrew
- * LED Indicator and Key Switch Protection
- * Power Stability: $\leq \pm 10\%$
- * Beam Quality: TEM00
- * Beam Divergence: $< 1.2\text{mrad}$.
- * Warm up Time: $< 5\text{ min}$.
- * Operation Temperature: 15°C
- * Expected Lifetime: $> 2500\text{hrs}$
- * Without 2nd Order Filter

Ordering Information

UGL-532 - ☐ ☐ - C

05 = 5mW
10 = 10mW
20 = 20mW
30 = 30mW



Industrial Red Laser Module

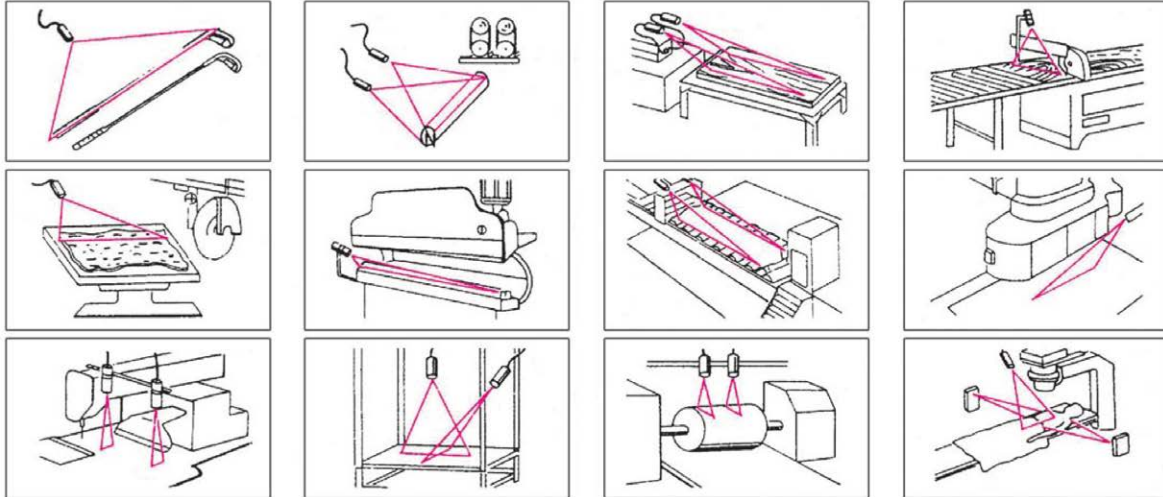
Application

Point Source: Positioning, Sighting

Line Source: Lineation, Alignment

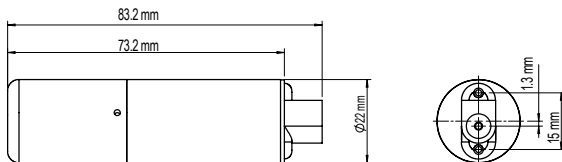
Cross Source: Positioning, Sighting, Alignment

This product is ease of use and highly versatile in application as: Linearity measurement for exercise machine, PCB cutting, marble hewing, carpentry processing, clothes manufacturing, fixed positioning and focusing of scanner, CCTV and surveillance system, DJ light effect, level and plumb for construction, surveyor's level ...etc.

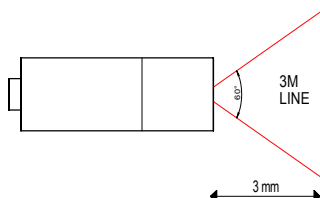


Diode Laser

- * Wavelength: 650nm
- * Constant power
- * Operate voltage: 3V-5V
- * Operate electric current: <100mA
- * Focal length adjustable



UM650-10-G



Ordering Information

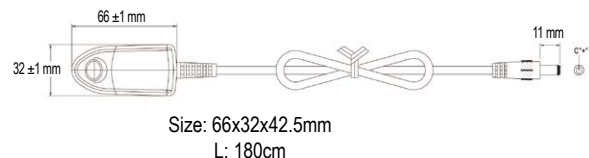
UM 650 - □□ - □

Output Power
5 = 5mW
10 = 10mW

Type
G = Line
S = Point Source
C = Cross Source

Power Supply

- * Universal AC input / Full range
- * No load power consumption < 0.3W
- * Energy efficiency Level V
- * Class II power (without earth pin)
- * Protections: Short circuit / Overload / Over voltage
- * AC input voltage range: 90~264VAC; 127~370VDC



Size: 66x32x42.5mm
L: 180cm



SP2

Laser Mount

- * X-Y axes adjustable for tilts and rotation.



08UMM-A

