

Slit Line Irradiate Illumination [IDBA-SL Series]

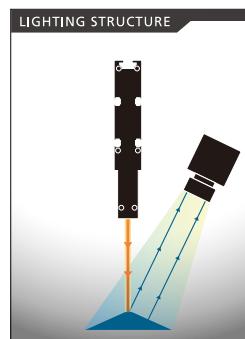
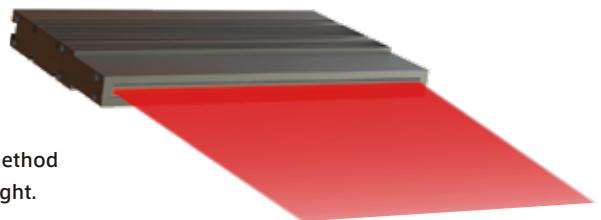
The thinnest slit line light of Leimac products with width approx05 mm
Ideal for light-sectioning measurement and detecting small foreign objects

Optimal for precise detection of 0.5mm slit light, light-cutting measurement method, and fine foreign object detection.

Special Optical Design Designs Registered Product

Capable of irradiating slit light with a width of 0.5mm.

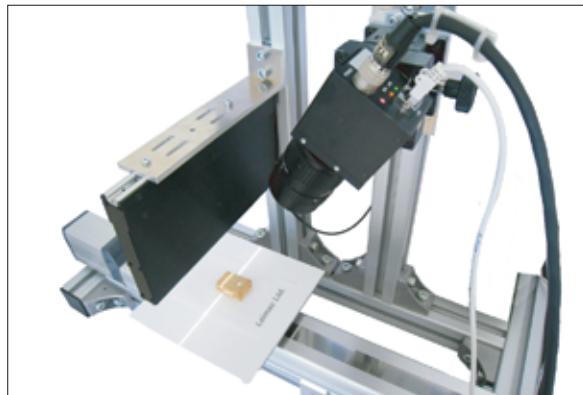
Ideal for irradiating slit light that is compatible with light-section method and detecting small particles that are difficult to see with normal light.



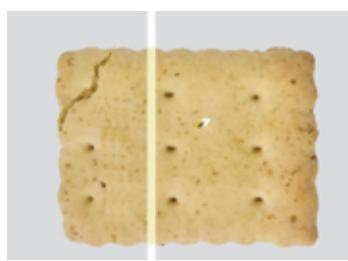
Standard Size Lineup

Standard Release in 2types-DC12V type :30~240mm(per.30mm);
DC 24V Type:60~300mm(per.60mm)

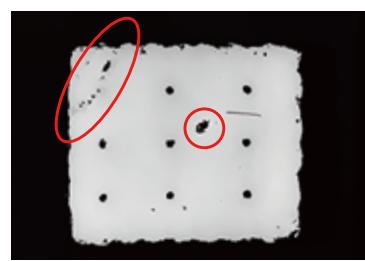
Ideal For Light-section Method And Fine Particles Detection.



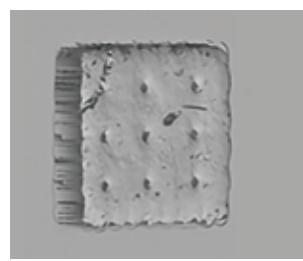
By combining it with a 3D measurement camera, you can obtain 3D data of the object and utilize it for high-resolution measurements of height, position, volume, and more.



Objects with cracks, foreign object contamination, or scratches.



Display anomalies such as cracks, foreign object contamination, etc. as monochrome images.



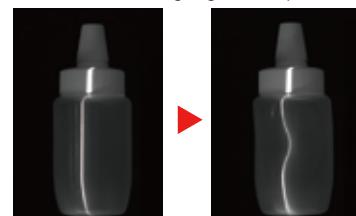
More detailed 3D representation, including height and shape.



Achieve detection by utilizing the characteristic of incorrect light exposure due to narrow range distortion.



Light does not hit correctly due to distortion



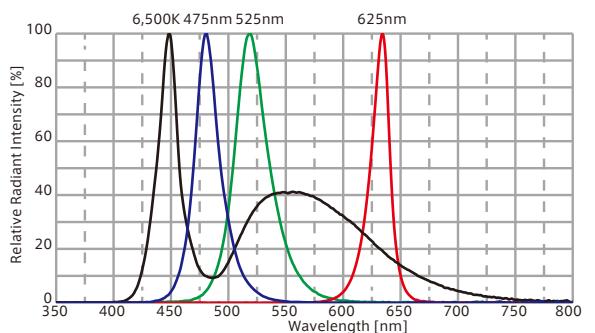
Surface deformations are detected

Narrow Beam Width, Minimizing Spread Even At Longer Distances To The Object.

The special optical design achieved an illumination width of approx. 0.5mm at WD 50mm. Even in operating environments where there will be some distance to the target object, the narrow illumination width of approx. 2.1mm at WD 500mm is maintained, enabling use in a variety of applications.

Distance to the object (mm)	Beam width(mm) (Ref.Value)
WD=50	0.5
WD=100	0.6
WD=150	0.8
WD=200	1.0
WD=300	1.4
WD=400	1.7
WD=500	2.1

Optical Spectrum (Ref.Value)



Model	Color	Power Consumption(W)	Input Voltage	SAG(※)				Applicable Controller	Drawing	
				R	W	G	B			
IDBA-SL30□	R W B G	3.5	DC12V	FF	FF	FF	FF	IDMU Series (P.193) ILP-30M2 (P.197) IDGC Series (P.209) and the others Strobe/Overdrive Controllers, etc.	X=30	
IDBA-SL60□	R W B G	7		FF	FF	FF	FF		X=60	
IDBA-SL90□	R W B G	10.5		FF	FF	FF	FF		X=90	
IDBA-SL120□	R W B G	14		FF	FF	FF	FF		X=120	
IDBA-SL150□	R W B G	17.5		FF	F9	FF	FD		X=150	
IDBA-SL180□	R W B G	21		FF	DD	E3	E1		X=180	
IDBA-SL210□	R W B G	24.5		FF	C9	CC	CB		X=210	
IDBA-SL240□	R W B G	28		F7	BC	BF	BE		X=240	
IDBA-SL60□HV	R W B G	7	DC24V					IDMU-24 Series (P.193) ILP-60M2-24 (P.197) IDGC-24 Series(P.209) etc.	X=60	
IDBA-SL120□HV	R W B G	14							X=120	
IDBA-SL180□HV	R W B G	21							X=180	
IDBA-SL240□HV	R W B G	28							X=240	
IDBA-SL300□HV	R W B G	35							X=300	

★The emission color (W=White,R=Red,B=Blue) is indicated by □ in the model table.

※SAG: The maximum instantaneous upper limit output voltage setting value in the controller for the corresponding illumination when used in combination with the Overdrive controller.

Connection Cable For DC12V Bar Illumination

I-CB-S Series

When used for moving parts such as robots, please use the I-CB-S-R-C02 series, which manufactured with robust robot cable with high flexibility. I-CB-S-24 series and I-CB-S-R-24C02 series are compatible for DC24V model.



Recommended Digital Controller(PWM Control)

IDMU Series

Output control: 1,000 Levels
Compact PWM controller with DC24V input voltage, ideal for installation inside panels
Expandable up to 40 channels by linking units
Equipped with programming and camera trigger output functions, making it versatile.

