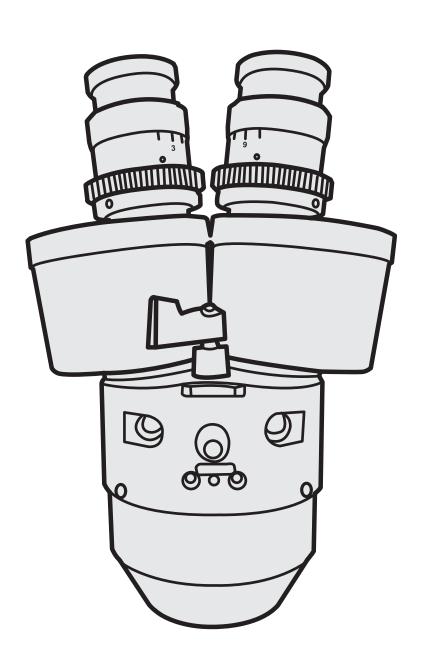


LED & Halogen SLIT LAMP

Quality Optics



MADE IN JAPAN

www.inami.co.jp/english
www.facebook.com/inami.japan

Here comes the PHAROS LED EGG LED

Sharp and even illumination

▼ Environmentally-friendly

V Powerful and long-lasting light source

Less stress to patient's eye

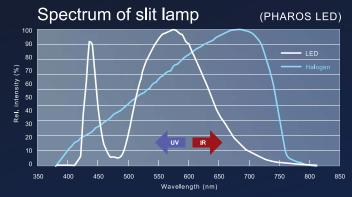
Inami's slit lamp series "PHAROS" and the high-end model "EGG" now have LED powered version.

The original LED technology optimises the spectrum of light for sharp, clear and even observation.

One of the most valuable advantages of LED light source is that it lasts nearly lifetime which means there will be no need to purchase and change light bulbs.

Even if the LED lamp house needs to be changed somehow, users do not have to change the whole column part since the lamp house assembly itself is replaceable.

This energy saving light source generates no UV and less heat, which reduces the stress to patient's eye.



Inami's LED spectrum is specially designed to ensure the best setting for various kinds of slit lamp observation.











With built-in C-mount (factory option)



Continuous light volume controller for fine adjustment



Colour selectable base top for your interior theme



Built-in yellow filter for clearer fluorescein images



Convergent optics for user's comfort



Half-moon type column for laser system attachment



Light booster for momentary extra-brightness (halogen type only)

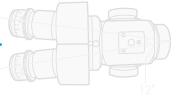


Digital camera controlable base for easy photography (activating this function is optional)



3 Steps

LED: L-0187-LED Halogen: L-0187





Continuous light volume controller for fine adjustment



Colour selectable base top for your interior theme



Digital video camera beam splitter can be attached



Convergent optics for user's comfort



Half-moon type column for laser system attachment



Light booster for momentary extra-brightness (halogen type only)



Digital camera controlable base for easy photography (activating this function is optional)



5 Steps **LED:** L-0189-LED Halogen: L-0189



Continuous light volume controller for fine adjustment



Colour selectable base top for your interior theme



Digital video camera beam splitter can be attached



Convergent optics for user's comfort



Half-moon type column for laser system attachment



Light booster for momentary extra-brightness (halogen type only)

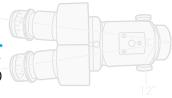


Digital camera controlable base for easy photography
(activating this function is optional)





LED: L-0240-LED Halogen: L-0240





Continuous light volume controller for fine adjustment



Colour selectable base top for your interior theme



Digital video camera beam splitter can be attached



optics for user's comfort



Half-moon type column for laser system



Light booster for momentary extra-brightness (halogen type only)



Digital camera controlable base for easy photography (activating this function is optional)

Digital Camera Compatible

LED: L-0229-E-LED Halogen: L-0229-E

EGG SLIT LAMP

L-0229-E-LED and L-0229-E Digital Cam
Compatible Slit Lamp Microscope "EGG"
are ideal for taking digital images both si L-0229-E-LED and L-0229-E Digital Camera are ideal for taking digital images both still and movie by our digital video camera beam splitter L-0541DC-1.3.

All the extended functions were thoroughly designed for your comfort.



The Joy-stick features a shutter release, a video recording function, a background illumination switch and a light intensity control. Everything is on the unique shaped base of this slit lamp for ease of



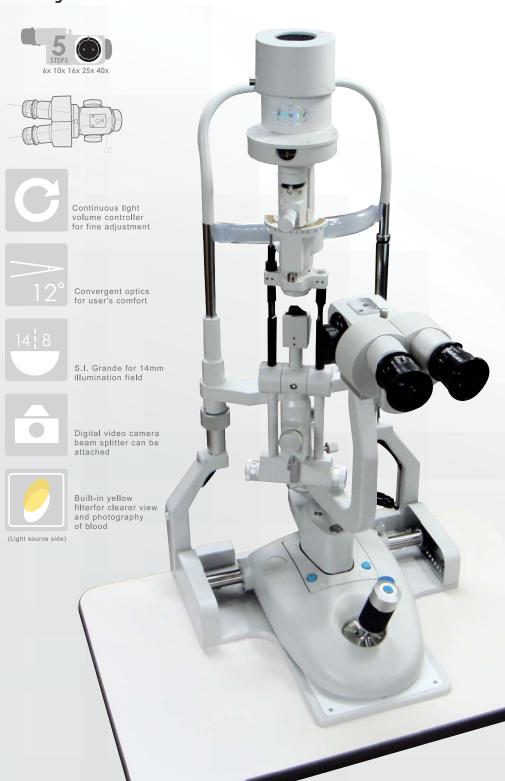
L-0229-E-LED and L-0229-E feature the LED background illumination system which allows you to take clear and bright images of slit light. The light intensity of LED is set within the extent that does not give too much damage to human eyes. The light diffuser is useful when the full view of an eye is observed.



The unique function of L-0229-E-LED and L-0229-E called "S.I. GRANDE" enables you to optically change the illumination field up to 14mm by single click action. This is ideal for contact lens fitting observation. "S.I. GRANDE" is registered as Inami's patent.



EGG LED EGG



1-0229-F-LED









L-0541DC-1.3

Digital Video Camera Beam Splitter









LED external background



Foot remote controller

SPECIFICATIONS

Image Sensor Type	e Sensor Type Sony progressive scan interline transf CCD's with square pixels and global shutter		automatic / manual modes, programmable via software, 0.01 ms to 66 ms			
Image Sensor Model	ICX445 1/3" h EXview HAD CCD(TM)	Transfer Rates	2 W (max) at 5 V			
Maximum Resolution	1280(H) x 960(V)	Partial Image Modes	pixel binning and region of interest modes via Format_7			
Pixel Size	3.75 μm x 3.75 μm	General Purpose I/O Ports (For advanced use only)	7-pin JST GPIO connector, 4 pins for trigger and strobe, 1 pin +3.3 V, 1 VEXT pin for external power			
Analog-to-Digital Converter	5-pin Mini-B USB 2.0 digital interface for camera control, video data transmission, and power	Gain Control	automatic / manual / one-push gain modes, programmable via software, 0 dB to 24 dB in 0.04 dB increments			
Video Data Output / Max Frame Rate	ata Output / 15FPS / Shutter Speed		automatic / manual / one-push modes programmable via software, 0.01 ms to greater than 10 seconds			
Image Data Formats	automatic / manual gain modes, programmable via software, 0 dB to 24 dB in 0.04 dB increments	Power Consumption	2 W (max) at 5 V			







An easy-to-use application for taking pictures, capturing videos and sorting files is included in a package of L-0541DC-1.3.

Categories of images can be freely edited and a comment can be added to an image captured.

6 camera property settings can be stored for different types of observation.

For quick start, 6 preset camera property settings are available as soon as the system is installed.

Specifications

	Standard / Option	L-0185-LED (LED) L-0185 (Halogen)	L-0187-LED (LED) L-0187 (Halogen)	L-0189-LED (LED) L-0189 (Halogen)	L-0240-LED (LED) L-0240 (Halogen)	L-0229-E-LED (LED) L-0229-E (Halogen)	
Microscope							
Туре		Greenough Type Stereoscopic Microscope	Convergent Type Binocular Microscope	Convergent Type Binocular Microscope	Convergent Type Binocular Microscope	Convergent Type Binocular Microscope	
Magnification Changer		2 steps by changing knob	3 steps by drum rotation	5 steps by drum rotation	Continuous Zoom by drum rotation	5 steps by drum rotation	
Stereo angle		13°	12°	12°	12°	12°	
Eyepiece	Standard	10x	12.5x	12.5x	12.5x	12.5x	
Magnification Ratio (Field of View)	Option	16x 10x (20.13mm) 16x (16.13mm)	10x (28.5mm) 16x (14mm) 25x (7mm)	6x (38mm) 10x (24mm) 16x (15mm) 25x (9mm) 40x (6mm)	Continuous from 10x ~ 30x (22mm~8mm)		
Pupilary Adjustment		52 - 90 mm	53 - 83 mm	53 - 83 mm	53 - 83 mm	53 - 83 mm	
Focus Distance		100 mm	106 mm	106 mm	106 mm	106 mm	
Diopter Adjustment Slit Illumination		+ 8 to -8 diopters	+ 8 to -8 diopters	+ 8 to -8 diopters	+ 8 to -8 diopters	+ 8 to -8 diopters	
Slit Width		0 -10 mm	0 -10 mm	0 -10 mm	0 -10 mm	0 -14 mm	
		_	_	_	_	0 -8 mm (S.I. GRANDE position 2)	
Aperture Diameter		0.2, 1, 3, 4, 6, 10 mm	0.2, 1, 3, 4, 6, 10 mm	0.2, 1, 3, 4, 6, 10 mm	0.2, 1, 3, 4, 6, 10 mm	0.3, 1.4, 4.2, 5.5, 8.3, 14 mm	
		_	_	_	_	0.2, 0.8, 2.4, 3.2, 4.8, 8mm (S.I. GRANDE position 2)	
Slit Length		0 -10 mm	0 -10 mm	0 -10 mm	0 -10 mm	0 -14 mm	
		_	_	_	_	0 -8 mm (S.I. GRANDE position 2)	
Slit Rotation		± 90°	± 90°	± 90°	± 90°	± 90°	
Filters	Standard	Cobalt blue, Heat absorption, Red-free, 1/2 ND	Cobalt blue, Heat absorption, Red-free, 1/2 ND	Cobalt blue, Heat absorption, Red-free, 1/2 ND	Cobalt blue, Heat absorption, Red-free, 1/2 ND	Cobalt blue, Heat absorption, Red-free, 1/2 ND, Yellow	
	Option	UV, IR, 1/10 ND etc. (To be replaced with standard filters)	UV, IR, 1/10 ND etc. (To be replaced with standard filters) Built-in binoculars yellow filter (YF-57)	UV, IR, 1/10 ND etc. (To be replaced with standard filters) Built-in binoculars yellow filter (YF-57)	UV, IR, 1/10 ND etc. (To be replaced with standard filters) Built-in binoculars yellow filter (YF-57)	UV, IR, 1/10 ND etc. (To be replaced with standard filters) Built-in binoculars yellow filter (YF-57)	
Slit Inclination		5° 10° 15° 20°	5° 10° 15° 20°	5° 10° 15° 20°	5° 10° 15° 20°	5° 10° 15° 20°	
Light Source		LED: (Orange) 14VDC 1A Halogen: Lamp bulb 12V/50W (L0160H1)	LED: (Orange) 14VDC 1A Halogen: Lamp bulb 12V/50W (L0160H1)	LED: (Orange) 14VDC 1A Halogen: Lamp bulb 12V/50W (L0160H1)	LED: (Orange) 14VDC 1A Halogen: Lamp bulb 12V/50W (L0160H1)	LED: (White) 14VDC 1A Halogen: Lamp bulb 12V/50W (L0160H1)	
Max. intensity (Lux) Background Illumination		45,000Lux	45,000Lux	45,000Lux	45,000Lux	58,000Lux	
Light Source		_	_	_	_	15VDC 0.1A	
Base							
Vertical Movement		30 mm	30 mm	30 mm	30 mm	30 mm	
Longitudinal Movement		79 mm	79 mm	79 mm	79 mm	80mm (Optional 103 mm is also available	
Lateral Movement		115 mm	115 mm	115 mm	115 mm	115 mm	
Fine Base Movement		± 10 mm	± 10 mm	± 10 mm	± 10 mm	± 10 mm	
Colour selectable base		Selectable	Selectable	Selectable	Selectable	_	
Chinrest							
Vertical Movement		75 mm	75 mm	75 mm	75 mm	75 mm	
Fixation Target		LED: LED 3V 0.01A (Option) Halogen: Halogen 6.3V 0.14A (L0150V2)	LED: LED 3V 0.01A (Option) Halogen: Halogen 6.3V 0.14A (L0150V2)	LED: LED 3V 0.01A (Option) Halogen: Halogen 6.3V 0.14A (L0150V2)	LED: LED 3V 0.01A (Option) Halogen: Halogen 6.3V 0.14A (L0150V2)	LED: LED 3V 0.01A (Option) Halogen: Halogen 6.3V 0.14A (L0150V2)	
Input Voltage		AC100, 120V, 220V, 240V 50/60Hz	AC100, 120V, 220V, 240V 50/60Hz	AC100, 120V, 220V, 240V 50/60Hz	AC100, 120V, 220V, 240V 50/60Hz	AC100, 120V, 220V, 240V 50/60Hz	
Power Consumption Size & Weight (Without table top)		LED: 25VA Halogen: 65VA	LED: 25VA Halogen: 65VA	LED: 25VA Halogen: 65VA	LED: 25VA Halogen: 65VA	LED: 25VA Halogen: 80VA	
Weight		18.5 Kgs	18.5 Kgs	18.5 Kgs	18.5 Kgs	23 Kgs	
Dimension		LED: 550(W)x400(D)x660(H) mm Halogen: 550(W)x400(D)x690(H) mm	LED: 550(W)x400(D)x660(H) mm Halogen: 550(W)x400(D)x690(H) mm	LED: 550(W)x400(D)x660(H) mm Halogen: 550(W)x400(D)x690(H) mm	LED: 550(W)x400(D)x660(H) mm Halogen: 550(W)x400(D)x690(H) mm	LED: 550(W)x400(D)x660(H) mm Halogen: 550(W)x400(D)x690(H) mm	

Optional accessories

Compatibility

		Code	Description	L-0185 OLED Halogen	L-0187 ○LED ●Halogen	L-0189 ○LED ● Halogen	L-0240 ○LED ● Halogen	L-0229-E ◯LED ●Halogen
1		136A-3080	Patient's hand grip			0		O •
2	3/1	L-1-0100	Hruby Lens	0	0	0	0	0
3		OCL-002	Eyepiece 16 X	0				
4		L-5110	Applanation tonometer Swing arm type	0	0	0	O •	0
5		L-5130	Applanation tonometer Plate type	0	0	0	O •	O •
6		YF-57	Built-in yellow filter	Equipped	0	0	O •	O •
7		L-0541	Beam splitter device		0	0	O •	0
3	•	L-0543	Camera adaptor with mount		0	0	O •	0
9		L-0568	CCD camera 480 TV lines		0	0	O •	O •
10	()	L-0554 L-0564	Video camera adaptor with C-mount (f=70mm) Video camera adaptor with C-mount (f=50mm)		0	0	O •	O •
D	1	L-0542	Observation tube Monocular		0	O •	O •	O •
2	Sec. of the second	L-0542-CB	Assistant binocular microscope		0	0	O •	O •
13		L-0541DC-1.3	Digital video camera beam splitter (1.3M)		0	0	O •	O •
4		Z0023	External LED Background illumination	0	0	0	O •	Equipped
5		L-0541DC-FR	Foot remote controller for L-0541DC-1.3	0	0	0	0	O •
16		L-0551	Digital SLR camera adaptor		0	0	0	0
D	1	Z0070	Built-in C-mount unit with camera "Please select digital camera (1.3M, w/filing software) or analogue CCD	0				
18		Z0069	External LED fixation target	Equipped (Halogen bulb)	Equipped (Halogen bulb)	Equipped (Halogen bulb)	Equipped (Halogen bulb)	Equipped (Halogen bulb)
19		Z0026	180 degree inclinable binoculars adapter		0	0	O •	O •
20	W/	136A-3652	Doctor's hand rest	0	0	0	O •	O •
			S Eyepiece 16 X Built-in C-mount with camera Hruby Lens	-in yellow filter al SLR camera adap n splitter device — al video camera — n splitter	10	Observation tube Monocular Assistant binocular microscope	tor with C-mount —	CCD camed 480 TV line
		cessories		n splitter degrees inclinable ttor	—— (, , oot ramote controll	O. 101 E-0041DO-1.3	

Standard accessories
Focusing rod, Chin rest paper (100 sheets), Dust cover, Cap for focusing rod hole, Fuse, Light bulb, Breath shield, Gear rack cover, Hexagon wrench (2 sizes), Fixation lamp bulb (Halogen type slit lamp only), Cap for objective lens, Eyepiece rubber, Operation manual (English)

Designs and specifications are subject to Designs and specifications are subject to change.









