

Polarizing Plates

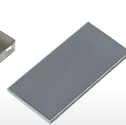
Refer to our website for product details.

CCS polarizing plates

Search



These are used together with a polarizing filter attached to the camera lens for the purpose of eliminating surface glare.

For the Ring Lights
LDR2 / LDR-PF SeriesFor the Bar Lights
LDL2-19X4 Series
LDL2-33X8 SeriesFor the Spot Lights
LSP Series

For the Ring Lights LDR2 / SQR / LDR-PF Series

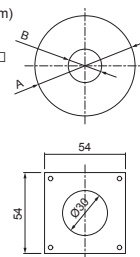
Model name	Applicable Light Unit (Common for all colors)	Dimensions		
		A	B	Thickness
PL-LDR-32*1	LDR2-32	Ø32	Ø9	0.8
PL-LDR-42*1	LDR2-42	Ø42	Ø14	
PL-LDR-50*1	LDR2-50	Ø50	Ø26	
PL-LDR2-70	LDR2-70	Ø76*2	Ø35	
PL-LDR-90*1	LDR2-90	Ø90	Ø40	
PL-LDR-90-H28*1*3	LDR2-90-30	Ø90	Ø28	(2)
PL-LDR-120-40*1	LDR2-120	Ø120	Ø40	
PL-SQR-56	SQR-56	Refer to the drawing		
PL-LDR-PF-36*1	LDR-PF-36	Ø36	Ø10	
PL-LDR-PF-54*1	LDR-PF-54	Ø54	Ø22	
PL-LDR-PF-75*1	LDR-PF-75	Ø75	Ø35	

● Dimensions (mm)

PL-LDR-□□

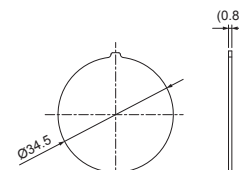
PL-LDR-PF-□□

PL-SQR-56



For the Spot Lights LSP Series

Model name	Applicable Light Unit (Common for all colors)
PL-LSP-41	LSP-41



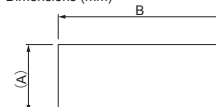
For the Bar Lights LDL2 / LDL-PF Series

Model name	Applicable Light Unit (Common for all colors)	Dimensions	
		A	B
PL-LDL2-19X4-HO	LDL2-19X4	6.4	28
PL-LDL2-19X4-VE			
PL-LDL2-33X8-HO	LDL2-33X8	10.4	44
PL-LDL2-33X8-VE			
PL-LDL2-41X16	LDL2-41X16	23.2	46
PL-LDL2-41X16-VE			
PL-LDL2-80X16	LDL2-80X16	23.2	84.7
PL-LDL2-80X16-VE			
PL-LDL2-119X16	LDL2-119X16	23.2	123.7
PL-LDL2-119X16-VE			
PL-LDL2-158X16	LDL2-158X16	23.2	162.7
PL-LDL2-158X16-VE			
PL-LDL-PF-52X18-HO	LDL-PF-52X18	22	58
PL-LDL-PF-52X18-VE			
PL-LDL-PF-102X18-HO	LDL-PF-102X18	22	108
PL-LDL-PF-102X18-VE			

Model name	Applicable Light Unit (Common for all colors)	Dimensions	
		A	B
PL-LDL-PF-152X18-HO	LDL-PF-152X18	22	158
PL-LDL-PF-152X18-VE			
PL-LDL2-26X30	LDL2-26X30	30.7	79
PL-LDL2-26X30-VE			
PL-LDL2-50X30	LDL2-50X30	30.7	79
PL-LDL2-50X30-VE			
PL-LDL2-74X30	LDL2-74X30	30.7	79
PL-LDL2-74X30-VE			
PL-LDL2-98X30	LDL2-98X30	37.2	102.7
PL-LDL2-98X30-VE			
PL-LDL2-122X30	LDL2-122X30	37.2	102.7
PL-LDL2-122X30-VE			
PL-LDL2-146X30	LDL2-146X30	37.2	150.7
PL-LDL2-146X30-VE			
PL-LDL2-218X30	LDL2-218X30	37.2	222.7
PL-LDL2-218X30-VE			

Model name	Applicable Light Unit (Common for all colors)	Dimensions	
		A	B
PL-LDL2-266X30	LDL2-266X30	37.2	270.7
PL-LDL2-266X30-VE			
PL-LDL-PF-52X30-HO	LDL-PF-52X30	34	58
PL-LDL-PF-52X30-VE			
PL-LDL-PF-102X30-HO	LDL-PF-102X30	34	108
PL-LDL-PF-102X30-VE			
PL-LDL-PF-152X30-HO	LDL-PF-152X30	34	158
PL-LDL-PF-152X30-VE			

● Dimensions (mm)



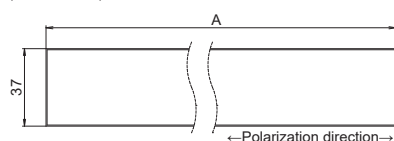
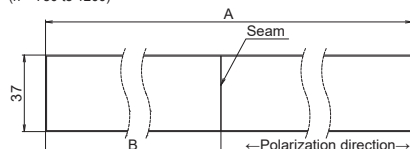
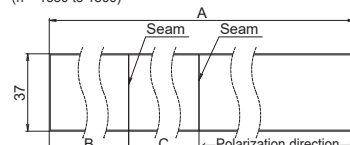
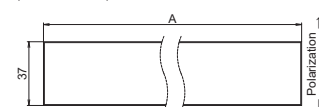
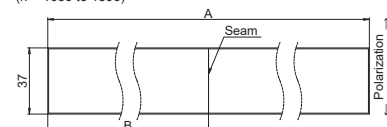
For the Bar Lights HLDL3 Series

Model name	Applicable Light Unit (Excluding infrared)	Dimensions	
		A	B
PL-HLDL3-150-HO	HLDL3-150X28	154	—
PL-HLDL3-150-VE			
PL-HLDL3-300-HO	HLDL3-300X28	304	—
PL-HLDL3-300-VE			
PL-HLDL3-450-HO	HLDL3-450X28	454	—
PL-HLDL3-450-VE			
PL-HLDL3-600-HO	HLDL3-600X28	604	—
PL-HLDL3-600-VE			
PL-HLDL3-750-HO	HLDL3-750X28	754	(377)
PL-HLDL3-750-VE			
PL-HLDL3-900-HO	HLDL3-900X28	904	(452)
PL-HLDL3-900-VE			

Model name	Applicable Light Unit (Excluding infrared)	Dimensions		
		A	B	C
PL-HLDL3-1050-HO	HLDL3-1050X28	1054	(527)	—
PL-HLDL3-1050-VE				
PL-HLDL3-1200-HO	HLDL3-1200X28	1204	(602)	—
PL-HLDL3-1200-VE				
PL-HLDL3-1350-HO	HLDL3-1350X28	1354	(451.5)	(451)
PL-HLDL3-1350-VE				
PL-HLDL3-1500-HO	HLDL3-1500X28	1504	(501.5)	(501)
PL-HLDL3-1500-VE				
PL-HLDL3-1650-HO	HLDL3-1650X28	1654	(551.5)	(551)
PL-HLDL3-1650-VE				
PL-HLDL3-1800-HO	HLDL3-1800X28	1804	(601.5)	(601)
PL-HLDL3-1800-VE				

* Remove the diffusion plate to mount the polarizing plate. If you want to use both the polarizing plate and diffusion plate, contact us for custom orders.
Note: There may be some lifting between the film and resin plate due to environmental changes. However, this will not affect functionality and performance.

● Dimensions (mm)

PL-HLDL3-n-HO
(n = 150 to 600)PL-HLDL3-n-HO
(n = 750 to 1200)PL-HLDL3-n-HO
(n = 1350 to 1800)PL-HLDL3-n-VE
(n = 150 to 900)PL-HLDL3-n-VE
(n = 1050 to 1800)

Caution

Polarizing plates are consumables. Heat may cause deformation or discoloring depending on the use environment.
Make sure that countermeasures against overheating are implemented and that the temperature does not exceed the operating limit.

These are used together with a polarizing filter attached to the camera lens for the purpose of eliminating surface glare.



Diffused Bar Lights
LB Series



For the Coaxial Lights
LFV3 / LFV-PF Series

For Diffused Lighting Bar Lights LB Series

Model name	Dimensions		Model name	Dimensions		Model name	Dimensions	
	A	B		A	B		A	B
PL-LB-200X50-HO/VE	214	55	PL-LB-200X100-HO/VE	214	105.5	PL-LB-200X150-HO/VE	214	155.5
PL-LB-300X50-HO/VE	314		PL-LB-300X100-HO/VE	314		PL-LB-300X150-HO/VE	314	
PL-LB-400X50-HO/VE	414		PL-LB-400X100-HO/VE	414		PL-LB-400X150-HO/VE	414	
PL-LB-500X50-HO/VE	514		PL-LB-500X100-HO/VE	514		PL-LB-500X150-HO/VE	514	
PL-LB-600X50-HO/VE	614		PL-LB-600X100-HO/VE	614		PL-LB-600X150-HO/VE	614	
PL-LB-700X50-HO/VE	714		PL-LB-700X100-HO/VE	714		PL-LB-700X150-HO/VE	714	
PL-LB-800X50-HO/VE	814		PL-LB-800X100-HO/VE	814		PL-LB-800X150-HO/VE	814	
PL-LB-900X50-HO/VE	914		PL-LB-900X100-HO/VE	914		PL-LB-900X150-HO/VE	914	
PL-LB-1000X50-HO/VE	1014		PL-LB-1000X100-HO/VE	1014		PL-LB-1000X150-HO/VE	1014	
PL-LB-1100X50-HO/VE	1114		PL-LB-1100X100-HO/VE	1114		PL-LB-1100X150-HO/VE	1114	
PL-LB-1200X50-HO/VE	1214		PL-LB-1200X100-HO/VE	1214		PL-LB-1200X150-HO/VE	1214	
PL-LB-1300X50-HO/VE	1312		PL-LB-1300X100-HO/VE	1312		PL-LB-1300X150-HO/VE	1312	
PL-LB-1400X50-HO/VE	1412		PL-LB-1400X100-HO/VE	1412		PL-LB-1400X150-HO/VE	1412	
PL-LB-1500X50-HO/VE	1512		PL-LB-1500X100-HO/VE	1512		PL-LB-1500X150-HO/VE	1512	
PL-LB-1600X50-HO/VE	1612		PL-LB-1600X100-HO/VE	1612		PL-LB-1600X150-HO/VE	1612	
PL-LB-1700X50-HO/VE	1712		PL-LB-1700X100-HO/VE	1712		PL-LB-1700X150-HO/VE	1712	
PL-LB-1800X50-HO/VE	1812		PL-LB-1800X100-HO/VE	1812		PL-LB-1800X150-HO/VE	1812	
PL-LB-1900X50-HO/VE	1912		PL-LB-1900X100-HO/VE	1912		PL-LB-1900X150-HO/VE	1912	
PL-LB-2000X50-HO/VE	2012		PL-LB-2000X100-HO/VE	2012		PL-LB-2000X150-HO/VE	2012	
PL-LB-2100X50-HO/VE	2111		PL-LB-2100X100-HO/VE	2111		PL-LB-2100X150-HO/VE	2111	
PL-LB-2200X50-HO/VE	2211		PL-LB-2200X100-HO/VE	2211		PL-LB-2200X150-HO/VE	2211	
PL-LB-2300X50-HO/VE	2311		PL-LB-2300X100-HO/VE	2311		PL-LB-2300X150-HO/VE	2311	
PL-LB-2400X50-HO/VE	2411		PL-LB-2400X100-HO/VE	2411		PL-LB-2400X150-HO/VE	2411	
PL-LB-2500X50-HO/VE	2510.5		PL-LB-2500X100-HO/VE	2510.5		PL-LB-2500X150-HO/VE	2510.5	
PL-LB-2600X50-HO/VE	2610.5		PL-LB-2600X100-HO/VE	2610.5		PL-LB-2600X150-HO/VE	2610.5	
PL-LB-2700X50-HO/VE	2710.5		PL-LB-2700X100-HO/VE	2710.5		PL-LB-2700X150-HO/VE	2710.5	

* When $n \geq 700$ for the PL-LB-HO Series or $n \geq 1000$ for the PL-LB-VE Series, the film on the polarizing plate has seams. For detailed information, please visit our website.

* Remove the diffusion plate to mount the polarizing plate. If you want to use both the polarizing plate and diffusion plate, contact us for custom orders.

* Infrared models are not available.

There are two types of polarizing plates for the Bar Lights LDL2 Series. They are used together as shown below.

Installation to illuminate the workpiece from all four directions:

Example:
Four LDL2-41X16 units
There are two types and they should be combined so that they are paired.

Polarization direction is 90° different.

PL-LDL2-41X16 (PL-LDL2-33X8-HO)
PL-LDL2-41X16-VE (PL-LDL2-33X8-VE)

Paired
HO
HO
Appears to be black

Not paired
HO
HO
Does not appear to be black

When the model number ends with or without HO
As shown in the figure, the polarization direction is **horizontal** with respect to the long side of the polarizing plate.

When the model number ends with VE
As shown in the figure, the polarization direction is **perpendicular** with respect to the long side of the polarizing plate.

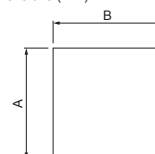
With or without HO
Polarization direction
For VE
Polarization direction

Refer to the Technical Guide (Glossary) for polarization. ▶P.397

For the Coaxial Lights LFV3 / LFV-PF Series

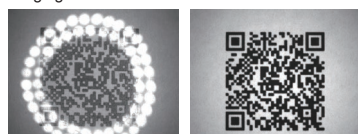
Model name	Applicable Light Unit (Common for all colors)	Dimensions		
		A	B	Thickness
PL-LFV3-35	LFV3-35 / LFV-PF-35	34	42	0.8
PL-LFV3-50	LFV3-50 / LFV-PF-50	52	56	
PL-LFV3-50X100	LFV3-50X100	52	106	
PL-LFV3-70	LFV3-70 / LFV-PF-70	73	80	
PL-LFV3-100	LFV3-100 / LFV-PF-100	100	106	
PL-LFV3-130	LFV3-130	130	138	0.8
PL-LFV3-200	LFV3-200	202	222	

• Dimensions (mm)



Example of usage

Imaging of QR code

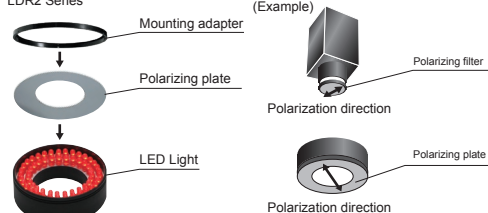


No polarizing plate

Using a polarizing plate

Example installation

Example: Attachment of Ring Lights LDR2 Series



• The polarizing filters and plates are used together.

(Example)

Adjustment procedures for polarizing plates and polarizing filters

Specular reflective components are cut out and the effects can be observed when the polarization direction of the polarizing plate installed on the light unit and the polarization direction of the filter attached to the camera are at a right angle (90°) to each other.

Refer to the Technical Guide (Glossary) for polarization. ▶P.397

Caution

Polarizing plates are consumables. Heat may cause deformation or discoloring depending on the use environment. Make sure that countermeasures against overheating are implemented and that the temperature does not exceed the operating limit.

PD4/PD4-A
PD3
PD2
CD-VA
POD
PTU2
PF
CX
CN-EPOE
CN-4024-2-EIPT
PB-2430-1
CC-ST-1024
PJ2
PJ
CC-PJ-0707
PSCC
PSB4
PSB3-30024
Lens Filters
Diffusion Plates
Polarizing Plates
Light Control Films
Fixtures, etc.
Brackets
SM/EL Cables

Control Units and Controllers
Options