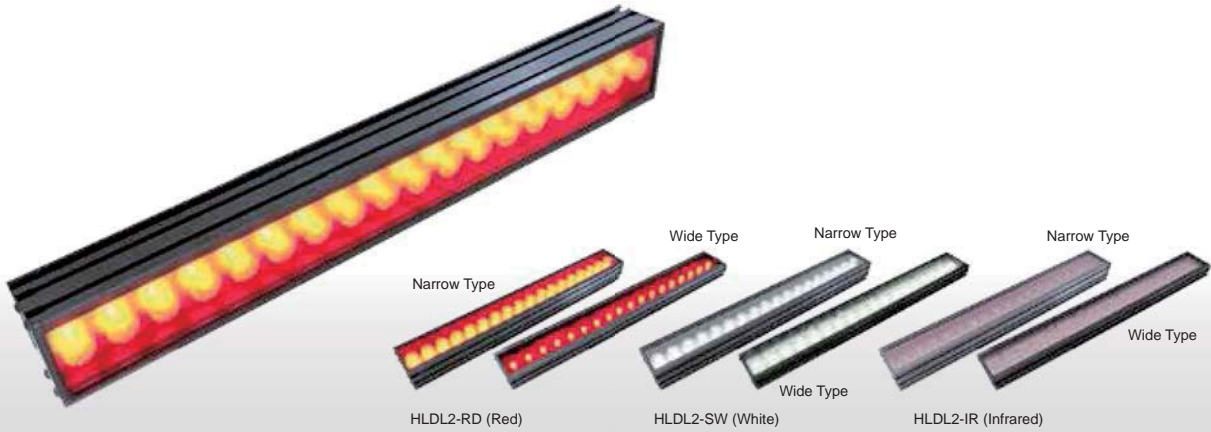


Provides direct light perfect for large workpieces



Applications Light source for robotic picking, inspection for parts identification, inspection for missing parts, visual inspection for large workpieces, measuring stamp dimensions for press products, etc.

Bar Lights That Are Perfect for Large Workpieces

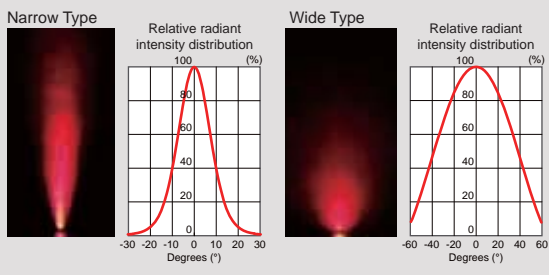
By using lenses, we provide the narrow type, which allows for convergent illumination, and the wide type, which uses diffused illumination over a wide area.

Emitting surface length
From 150 mm to 1,200 mm Can be made in units of 150 mm

LED color
For emitted LED color, we have a lineup consisting of: **Red, White, and Infrared**

We support a wide range, from visible light to infrared, depending on the contents of the inspection.

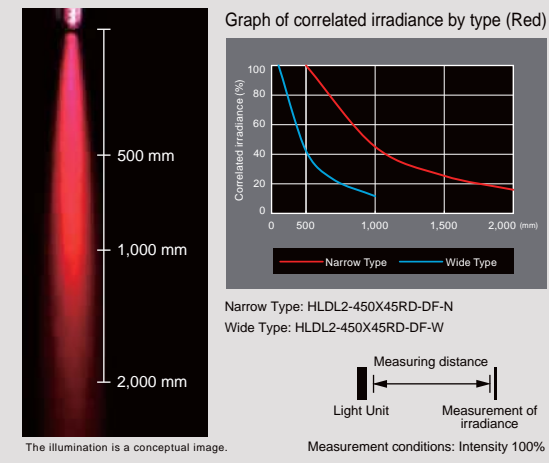
Selectable directional characteristics



Allows for Long-Distance Illumination for 2,000 mm

The narrow type, which allows for long-distance illumination, can illuminate even 2,000 mm away. We also provide the wide type, which uses diffused illumination over a wide area.

Image of the illumination of the HLHL2-450X45RD-DF-N (Narrow type)



Custom Orders

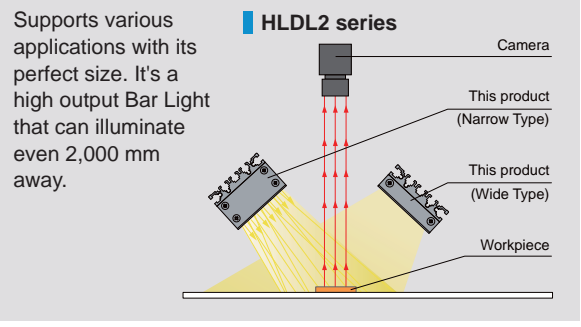
Please contact your sales representative.
E.g.: Improved protection of emitting surface

Customizable items

- External/internal diameter
- Wavelength/color
- Increase output
- Cable length
- Illuminating angle
- Format/material
- Connector format
- Installation/mounting

Format/material: Uses reinforced glass

Example Configuration

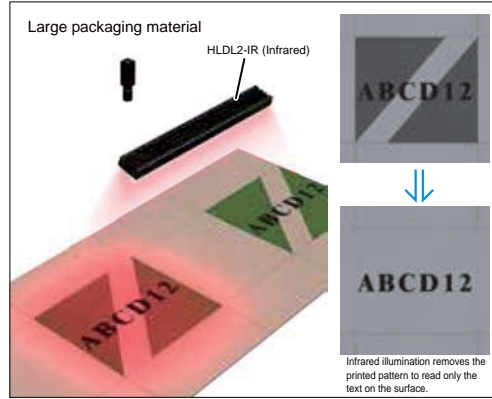


Applications

Picking work performed by robots



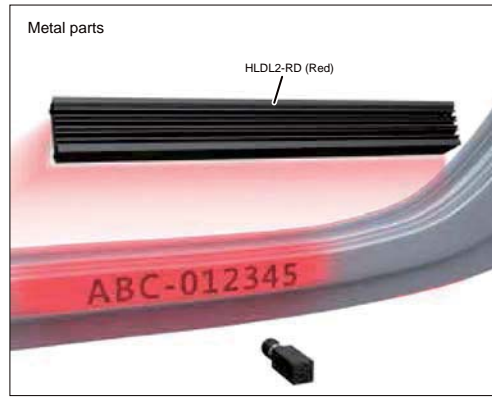
Reading text on cardboard



Inspection detecting the application of seal material (FIG)



Reading vehicle model numbers



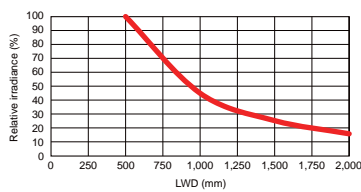
Data: Relative Irradiance Graph and Uniformity (Representative Example)

The data included is for reference only. Actual values may vary.

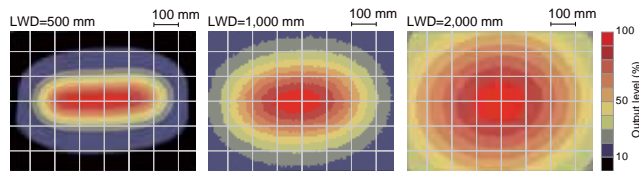
HLDL2-450X45RD-DF-N (Narrow Type)

Relative irradiance graph^{*1}
(LWD characteristics)^{*2}

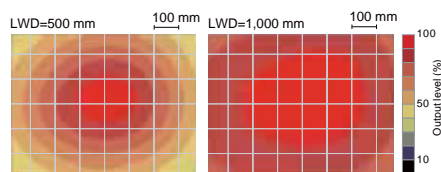
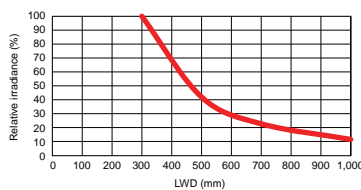
*1 Irradiation strength on the optical axis
*2 Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



HLDL2-450X45RD-DF-W (Wide Type)



Direct Lighting	LDR2 LDR2-LA LDR-LA1 SQR SQR-TP
Diffused Lighting	HPR2 LFR LKR FPR FFQ2
Direct Lighting	LDL2 LDLB HLDL2 HL TH2 (5 types) TH LFL HPD2 LDM2 LAV PDM LFX3 LFX3-PT LFV3
Diffused Lighting	MSU MFU
Coaxial Lighting	PF
Strobe Lighting	HLDR-IP/ HSL-PCL
Water-proof Lighting	UV2 UV LNSP-UV-FN
Ultraviolet Lighting	IR2
Infrared Lighting	IU
Intensity Control	HLV3 HLV2 LV LSP HFS/HFR HLV3-NR HLV3-3M-RGB-4 HLV2-NR HLV2-3M-RGB-3W PFBR PFB3 PFB2
Spot Lighting, Etc.	LNL LNLP LNSP2 LNSP Coaxial Units LNSP-FN LN/LN-HK
Convergent Lighting	LNSD LND2 HLND LT LNV
Diffused Lighting	LNDG LNIS2 LNIS LNIS-FN
Oblique/Angled Lighting	Telecentric Lens Macro Lens
Lenses	

HLDL2 Series



Lineup

“-N” at the end of the model name: Narrow Type, “-W” at the end of the model name: Wide Type

Model name	LED color	Power consumption	Peak wavelength / correlated color temperature	Connector	Extension cables	Recommended Control Units	Weight			
HLDL2-150X45RD-DF-N	Red	24 V / 14 W	640 nm	SM Connector	FCB* ¹ Straight Cable FCB-W* ² 2-branch Cable FCB-F 4-branch Cable FRCB Robot Cable	PD3 PSB	390 g			
HLDL2-150X45RD-DF-W							300 g			
HLDL2-150X45SW-DF-N	White	24 V / 16 W	5,600 K				390 g			
HLDL2-150X45SW-DF-W							300 g			
HLDL2-150X45IR-DF-N	Infrared	24 V / 12 W	860 nm				390 g			
HLDL2-150X45IR-DF-W							300 g			
HLDL2-300X45RD-DF-N	Red	24 V / 28 W	640 nm				770 g			
HLDL2-300X45RD-DF-W							590 g			
HLDL2-300X45SW-DF-N	White	24 V / 31 W	5,600 K				770 g			
HLDL2-300X45SW-DF-W							590 g			
HLDL2-300X45IR-DF-N	Infrared	24 V / 24 W	860 nm				770 g			
HLDL2-300X45IR-DF-W							590 g			
HLDL2-450X45RD-DF-N	Red	24 V / 42 W	640 nm				EL Connector	FCB-EL2 Straight Cable FCB-W-EL2 2-branch Cable	PD3 PSB4-30024-PEI	1,160 g
HLDL2-450X45RD-DF-W										880 g
HLDL2-450X45SW-DF-N	White	24 V / 46 W	5,600 K							1,160 g
HLDL2-450X45SW-DF-W				880 g						
HLDL2-450X45IR-DF-N	Infrared	24 V / 36 W	860 nm	1,160 g						
HLDL2-450X45IR-DF-W				880 g						
HLDL2-600X45RD-DF-N	Red	24 V / 56 W	640 nm	1,540 g						
HLDL2-600X45RD-DF-W				1,170 g						
HLDL2-600X45SW-DF-N	White	24 V / 61 W	5,600 K	1,540 g						
HLDL2-600X45SW-DF-W				1,170 g						
HLDL2-600X45IR-DF-N	Infrared	24 V / 48 W	860 nm	1,540 g						
HLDL2-600X45IR-DF-W				1,170 g						
HLDL2-750X45RD-DF-N	Red	24 V / 70 W	640 nm	1,930 g						
HLDL2-750X45RD-DF-W				1,460 g						
HLDL2-750X45SW-DF-N	White	24 V / 76 W	5,600 K	1,930 g						
HLDL2-750X45SW-DF-W				1,460 g						
HLDL2-750X45IR-DF-N	Infrared	24 V / 60 W	860 nm	1,930 g						
HLDL2-750X45IR-DF-W				1,460 g						
HLDL2-900X45RD-DF-N	Red	24 V / 84 W	640 nm	2,310 g						
HLDL2-900X45RD-DF-W				1,750 g						
HLDL2-900X45SW-DF-N	White	24 V / 91 W	5,600 K	2,310 g						
HLDL2-900X45SW-DF-W				1,750 g						
HLDL2-900X45IR-DF-N	Infrared	24 V / 72 W	860 nm	2,310 g						
HLDL2-900X45IR-DF-W				1,750 g						
HLDL2-1050X45RD-DF-N	Red	24 V / 98 W	640 nm	PD3 PSB4-30024-PEI	2,700 g					
HLDL2-1050X45RD-DF-W					2,040 g					
HLDL2-1050X45SW-DF-N	White	24 V / 106 W	5,600 K		2,700 g					
HLDL2-1050X45SW-DF-W					2,040 g					
HLDL2-1050X45IR-DF-N	Infrared	24 V / 84 W	860 nm		2,700 g					
HLDL2-1050X45IR-DF-W					2,040 g					
HLDL2-1200X45RD-DF-N	Red	24 V / 111 W	640 nm		PSB4-30024-PEI	3,080 g				
HLDL2-1200X45RD-DF-W						2,330 g				
HLDL2-1200X45SW-DF-N	White	24 V / 121 W	5,600 K			3,080 g				
HLDL2-1200X45SW-DF-W						2,330 g				
HLDL2-1200X45IR-DF-N	Infrared	24 V / 96 W	860 nm			3,080 g				
HLDL2-1200X45IR-DF-W						2,330 g				

Please inquire if you want to use the Light Unit in combination with a Strobe Control Unit (override type).

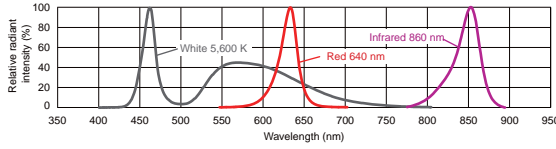
Extension Cables ▶ P.308

Control Unit Selection Guide ▶ P.251

List of Control Unit Specifications ▶ P.253

Common Specifications

Spectral distribution



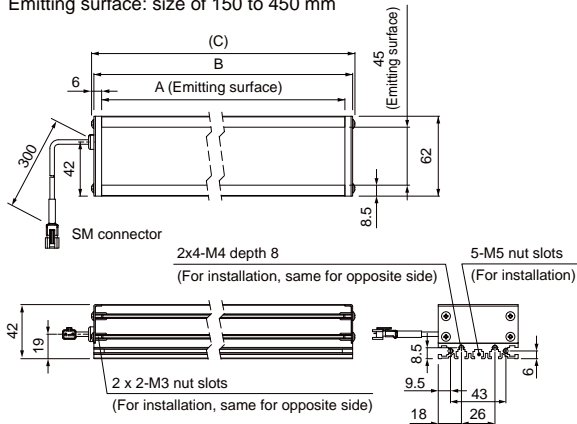
Offers you the most suitable lens filter for each wavelength. For details about the lens filter, refer to P.299.

Be sure to read the "Instruction Guide" included with the product before use and follow the safety precautions upon use. The data included is for reference only. Actual values may vary.

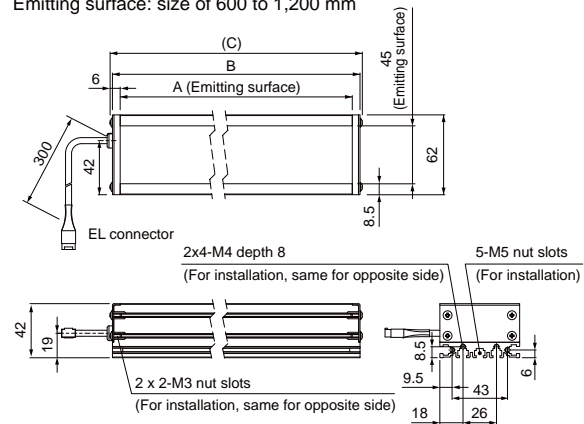
Dimensions (mm)

Narrow Type

Emitting surface: size of 150 to 450 mm

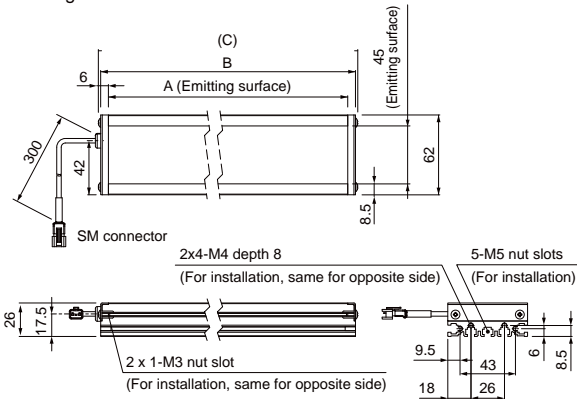


Emitting surface: size of 600 to 1,200 mm

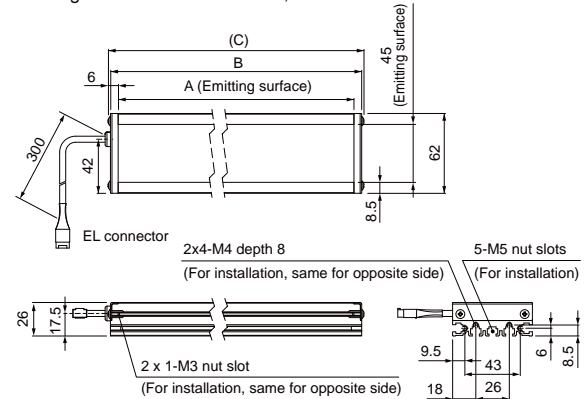


Wide Type

Emitting surface: size of 150 to 450 mm



Emitting surface: size of 600 to 1,200 mm



Model name (Narrow Type)	A	B	C	Model name (Wide Type)	A	B	C
HLDL2-150X45RD-DF-N / SW-DF-N / IR-DF-N	150	162	165.6	HLDL2-150X45RD-DF-W / SW-DF-W / IR-DF-W	150	162	165.6
HLDL2-300X45RD-DF-N / SW-DF-N / IR-DF-N	300	312	315.6	HLDL2-300X45RD-DF-W / SW-DF-W / IR-DF-W	300	312	315.6
HLDL2-450X45RD-DF-N / SW-DF-N / IR-DF-N	450	462	465.6	HLDL2-450X45RD-DF-W / SW-DF-W / IR-DF-W	450	462	465.6
HLDL2-600X45RD-DF-N / SW-DF-N / IR-DF-N	600	612	615.6	HLDL2-600X45RD-DF-W / SW-DF-W / IR-DF-W	600	612	615.6
HLDL2-750X45RD-DF-N / SW-DF-N / IR-DF-N	750	762	765.6	HLDL2-750X45RD-DF-W / SW-DF-W / IR-DF-W	750	762	765.6
HLDL2-900X45RD-DF-N / SW-DF-N / IR-DF-N	900	912	915.6	HLDL2-900X45RD-DF-W / SW-DF-W / IR-DF-W	900	912	915.6
HLDL2-1050X45RD-DF-N / SW-DF-N / IR-DF-N	1,050	1,062	1,065.6	HLDL2-1050X45RD-DF-W / SW-DF-W / IR-DF-W	1,050	1,062	1,065.6
HLDL2-1200X45RD-DF-N / SW-DF-N / IR-DF-N	1,200	1,212	1,215.6	HLDL2-1200X45RD-DF-W / SW-DF-W / IR-DF-W	1,200	1,212	1,215.6

You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.5 for details.

You can inquire using our website.

- Sample Testing
- Light Unit Selection
- Free Product Trial
- Custom Orders
- Product Details
- Pricing/Quotation
- Discontinued Products

- Direct Lighting
 - LDR2
 - LDR2-LA
 - LDR-LA1
 - SQR
 - SQR-TP
- Diffused Lighting
 - HPR2
 - LFR
 - LKR
 - FPR
 - FPQ2
- Direct Lighting
 - LDL2
 - LDLB
 - HLDL2
 - HL
 - TH2 (5 types)
 - TH
 - LFL
 - HPD2
 - LDM2
 - LAV
 - PDM
 - LFX3
 - LFX3-PT
 - LFV3
- Diffused Lighting
 - MSU
 - MFU
- Strobe Lighting
 - PF
- Water-proof Lighting
 - HLDR-IP/ HSL-PCL
- Ultraviolet Lighting
 - UV2
 - UV
 - LNSP-UV-FN
- Infrared/Control Lighting
 - IR2
 - IU
- Spot Lighting, Etc.
 - HLV3
 - HLV2
 - LV
 - LSP
 - HFS/HFR
 - HLV3-NR
 - HLV3-3M-RGB-4
 - HLV2-NR
 - HLV2-3M-RGB-3W
 - PFB3
 - PFB2
- Convergent Lighting
 - LNLP
 - LNSP2
 - LNSP
 - Coaxial Units
 - LNFP-FN
 - LN/LN-HK
- Diffused Lighting
 - LNLD
 - LND2
 - HLND
 - LT
 - LNVD
 - LNVDG
 - LNIS2
 - LNIS
 - LNIS-FN
- Oblique-Angled Lighting
 - Telecentric Lens
 - Macro Lens