LDR2-LA LDR-LA1 SQR SQR-TF Bulting HLDR3

Horizon Lighting Teach Tree Lighting

FPQ3 LDL2 HLDL3

HLDL2

HPD2 LDM2 LAV PDM LFXV LFX3

LFX3-PT LEV3 LFV3-G

Sollimated Lighting MEN CAW

Strobe ighting

HST-bCr HFDK-" HLDR-IP

Small COB Lights

UV3/VL3
UV2
UV2

CIR Sontrol

> HLV3 LV

LSP

HFS/HFR HLV3-22-4-NR

PFBR-600

PFBR-150

Coaxial Units

LNSP-FN

LN/LN-HK LNSD

PFB3

LNLP

Coaxial LNSP-F

LND2

LFXV (Rectar

LNDG E LNIS2 SINJ E LNIS-FN Telecentric Lens Macro Lens

TH2 /Rectangular Type)

167

LT LNV

HLV3-3M-RGB-4

LNSP-UV3-FN LNSP-UV-FN

IR2 (Under 1000-nm Type)

IR (Over 1000-nm Type)

TH2 (5 types) LEL

Refer to our website for product details.

Ultraviolet/Violet Lights

UV3/VL3 Series

回線深刻回

vour smartphone or cell phone.

Increased range of applications with high output and 4 wavelengths



(Narrow Type)





(Narrow Type)



LN-61UV3/VL3



LDR2-60UV3/VL3-W



LDL-71X12UV3/VL3-W (Wide Type)



HLDR-IP67-100UV3/VL3



HLV2-24UV3/VL3

* 365 nm wavelength for ultraviolet light UV3 Series. 385 nm, 395 nm, and 405 nm wavelengths for violet light VL3 Series

Special ink observation, deep magnetic particle scratch inspection, adhesive coating inspection, deep penetration scratch inspection, coating inspection, etc.

Increased Brightness When Overdriving

Comparison with a conventional product (LDR2-60UV3-365-N)



The increase in brightness varies depending on model.(These values are for reference only and are not guaranteed values.)

Imaging special ink on can

Example of imaging with UV2

A lack of brightness makes it difficult to perform fluorescence observation for special inks.



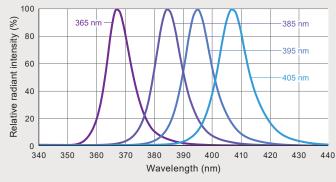
Example of imaging with UV3

Enables fluorescence observation for special inks even with faster shutter speed.

* Comparison of imaging at 1ms shutter speed

4 Wavelengths (365/386/395/405 nm) Expand Possible Applications

Spectral distribution



Cautionary Information regarding UV Products

- Do not expose your eyes or skin to direct UV irradiation
- When using UV illumination, be sure to wear UV blocking eye wear and avoid looking at irradiating parts (emitting parts).
- Do not turn on UV-LED irradiating parts (emitting parts) if they are facing someone's eves.
- Wear long sleeves and gloves to protect your skin from UV
- Thoroughly educate all those involved near the product about the dangers of UV LEDs.

E.g.: UV blocking eye wear

* 365 nm wavelength for ultraviolet light UV3 Series. 385 nm, 395 nm, and 405 nm wavelengths

I DR-I A1 SQR SQR-TP HLDR3

Imaging Example: Imaging Adhesive on an Imaging Sensor Substrate

Workpiece image



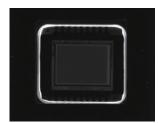
Imaging sensor substrate

White LED lighting (LDR2-90-30SW2)



It is difficult to capture the adhesive with white LED lighting.

UV-LED lighting (LDR2-100UV3-365-W)



With UV light, the adhesive can be observed because of emitted fluorescent light.

Imaging Example: Imaging of Grease Applied on a Gear Part

Workpiece image



Gear part

White LED lighting (LDR2-90SW2)



With white light, it is difficult to capture the application of the grease on the uneven surface.

UV-LED lighting (LDL-138X12UV3-365-W)



With UV light, the application of the grease can be observed because of emitted fluorescent light.

Data: Relative Irradiance Graph and Uniformity (Representative Example)

LDR2-100UV3-365-N

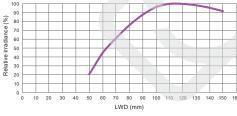


(Narrow Type)

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

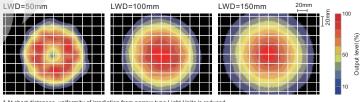
Relative irradiance graph*1 (LWD characteristics)*2

- *1 Irradiance on the optical axis
- *2 Illuminating distance from the Light Unit to the workpiece



LDR2-100UV3-365-W (Wide Type)

Uniformity (Relative irradiance)

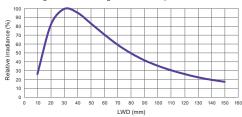


At short distances, uniformity of irradiation from narrow type Light Units is reduced This may affect imaging depending on the type of workpiece.

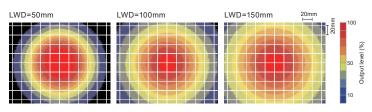
Relative irradiance graph*1 (LWD characteristics)*2

*1 Irradiance on the optical axis

*2 Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



You can inquire using our website.

Light Unit

Free Product Trial

Product Details

Discontinued Products

Inquire on our website here https://www.ccs-grp.com/contact/

Lighting LDLB HLDL3 HLDL2 TH2 (5 types LEL HPD2 LDM2 LAV

PDM

LFR

LFXV LFX3 LFX3-PT LEV3 LFV3-G MSU MFU

HSL-PCI

Small COB Lights

LNSP-UV-FN

IR 1000-nm Type) CIR

IU

HLV3 LV LSP HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600

PFBR-150 PFB3 LNLF LNSP2 5

Coaxial Units LNSP-FN LN/LN-HK LNSD

LND2 LT LNV LFXV (Rectangular Type)

TH2 [Rectangular Type) LNDG LNIS2 LNIS = LNIS-FN

Macro Lens

LDR2 LDR2-LA LDR-LA1

SQR

Big HLDR3 HPR2 Diffused Lighting LLighting LLighting

FPQ3

Lighting / PDLS

HLDL3

LEL

HPD2 LDM2 LAV PDM LFXV

LFX3

LFV3 LFV3-G Collimated Lighting DAW

Strobe ighting

HSL-PCL

Small COB Lights

UV3/VL3
UV2
UV

Sontrol

HLV3

LV LSP HFS/HFR

LNSP2 Coaxial LNSP-F

LND2

LT

LNV

LFXV (Rectar TH2 (Rectangular Type)

LNDG

B LNIS2 E LNIS LNIS-FN Telecentric Lens Macro Lens

Coaxial Units LNSP-FN

LN/LN-HK LNSD

LNSP-UV3-FN

IR (Over 1000-nm Type) CIR

HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFB3

LNSP-UV-FN IR2 (Under 1000-nm Type)

LFX3-PT

HLDL2 TH2 (5 types)

SQR-TF

UV3/VL3 Series







your smartphone or cell phone.

Data: Relative Irradiance Graph and Uniformity (Representative Example)

The data included is for reference only

HLDR-IP67-100UV3-365



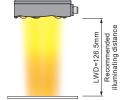
Regarding recommended distance

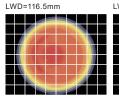
Uniformity (Relative irradiance)

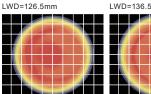
Recommended illuminating (126.5 mm±10 mm) If distance is exceeded, the

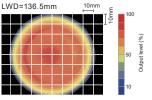
uniformity may change and

the imaging may be affected.









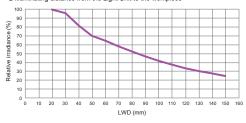
LDL-71X12UV3-365-N (Narrow Type)



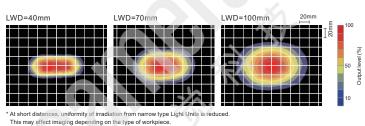
Relative irradiance graph*1 (LWD characteristics)*2

*1 Irradiance on the optical axis

*2 Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



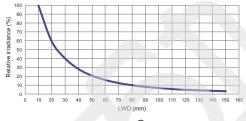
LDL-71X12UV3-365-W (Wide Type)



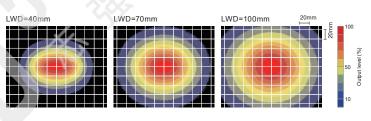
Relative irradiance graph*1 (LWD characteristics)*2

*1 Irradiance on the optical axis

*2 Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



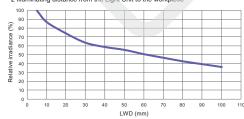
HLV2-24UV3-365



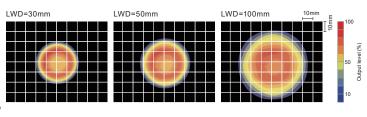
Relative irradiance graph*1 (LWD characteristics)*2

*1 Irradiance on the optical axis

*2 Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



LN-61UV3-365

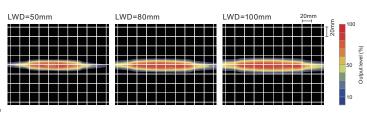
Relative irradiance graph*1 (LWD characteristics)*2

*1 Irradiance on the optical axis





Uniformity (Relative irradiance)



Various technical documents available.

PDF

DXF

Product

Instruction Guides

Digital Catalogs

Register to use them.

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Drawings

Drawings

LDR2 LDR-LA1 SQR SQR-TP

Lineup End of the model name -N: Narrow Type / -W: Wide Type

Wavelength 385/395/405 nm will be manufactured on a built-to-order system

wavelength 365/395/405 nm will be manufactured on a built-to-order system.						
Model name ^{*1}	LED color	Power consumption	Extension cables	Recommended Control Units	Weight	
LDR2-60UV3-365-N/-W	Ultraviolet			PD3 CC-ST-1024	End of the model name -N: 80g	
LDR2-60VL3N/-W	Violet	24 V / 7.6 W		PSB POD'4	End of the model name -W: 85g	
LDR2-100UV3-365-N/-W	Ultraviolet			PD3	End of the model name -N: 210g	
LDR2-100VL3-□-N/-W	Violet	24 V / 23 W		PSB POD'4	End of the model name -W: 240g	
LDL-71X12UV3-365-N/-W	Ultraviolet			PD3 CC-ST-1024		
LDL-71X12VL3-□-N/-W	Violet	24 V / 7.6 W		PSB POD'4	270 g	
LDL-138X12UV3-365-N/-W	Ultraviolet	041//401//			450 g	
LDL-138X12VL3-□-N/-W	Violet	24 V / 16 W	FCB*2 Straight Cable	PD3		
LDL-205X12UV3-365-N/-W	Ultraviolet	041// 001//	FCB-W *3 2-branch Cable	PSB POD'4	600 g	
LDL-205X12VL3-□-N/-W	Violet	24 V / 23 W	FCB-F 4-branch Cable			
LDL-339X12UV3-365-N/-W	Ultraviolet	041//001//	FRCB Robot Cable	PD3 POD'4	050	
LDL-339X12VL3-□-N/-W	Violet	24 V / 38 W		PD3 POD'4	950 g	
LN-61UV3-365	Ultraviolet	041//701//		PD3 CC-ST-1024	400	
LN-61VL3-	Violet	24 V / 7.6 W		PSB POD'4	430 g	
LN-128UV3-365	Ultraviolet	04.1/40.14	PD3 PSB POD'4	h	700	
LN-128VL3-	Violet	24 V / 16 W		PD3	700 g	
LN-195UV3-365	Ultraviolet	24 V / 23 W		PSB POD'4		
LN-195VL3-	Violet	24 V / 23 VV		MIL.	970 g	
HLDR-IP67-100UV3-365	Ultraviolet	24.V / 49.W	FCB-M12	PD3 PSB	420 ~	
HLDR-IP67-100VL3-□	Violet	24 V / 18 W	Straight Cable (Dedicated cables)	LD3 L2R	420 g	
HLV2-24UV3-365	Ultraviolet	074/291/	FCB ¹² Straight Cable	PD3 CC-PJ-0707	50 a	
HLV2-24VL3-□	Violet	0.7 A / 2.8 W	FRCB Robot Cable	PJ PJ2	50 g	
1 ☐ in the model name contains the wave 385/395/405.	elength	sion Cables ▶ P.381	Control Unit Selection G	uide ▶ P.321 List of Control Unit	Specifications ▶ P.323	

^{385/395/405}

https://www.ccs-grp.com/lnk/gr/pod

Note: Models without POD as the recommended control unit cannot be used in combination with the strobe overdrive control unit. Please contact us if you would like to make a special order for the combination.

About HLDR-IP67

Case Material

	LED Light	Dedicated cables
Case Material	Body: aluminum alloy (black anodized) Screws: SUS Washers: SUS, elastomer (TPE) Connectors: PA resin Lens: silicone	Light Unit side connector: soft PBT Cable: PVC Control Unit side connector: nylon

The 1st numeral "6" indicates the following level of protection:

No dust inside the instrument, (dustproof)

The 2nd numeral "7" indicates the following level of protection:

- No damage when submerged in water at the rated pressure for the rated time. (watertight type)
- Can be submerged in water to a depth of 1 m (for instruments with a height of less than 850 mm) for 30 minutes.

Cautionary Information regarding Waterproofing

- After cleaning manufacturing lines, be sure to wipe away any moisture remaining on the lens. Imaging can be affected by moisture on the lens.
- Use water to wash away any cleaning agent adhered to this product.
- Use water to wash away any oils or chemicals adhered to this product.
- The Control Unit connectors (SM connectors) on dedicated cables are not waterproof.

HLDR3 HPR2 LER Diffused Lighting LDLB ail HLDL3 HLDL2 TH2 (5 types) LEL HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-PT LEV3 LFV3-G MSU MFU HSL-PCI Small COB Lights LNSP-UV-FN IR (Over 1000-nm Type) IU HLV3 LV LSP 2 HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFB3 LNLP LNSP2 Coaxial Units LNSP-FN 5 LN/LN-HK LNSD LND2 LT LNV LFXV (Rectangular Type) TH2 (Rectangular Type) LNDG & LNIS2 W LNIS entre LNIS-FN d Telecentric Lens Macro Lens

<sup>385/395/405.

*2</sup> The cables with a model name that ends with
"-ME7", "-EL2", "-PF", or "-PF-EL9" are not included.

*3 The cables with a model name that ends with "-EL2" are not included.

*4 For information on the combinion of Light Units and POD-Series Control Unit, please refer to our website

LDR2

LDR2-LA

LDR-LA1 Direct L SQR

SQR-TF

HPR2

FPQ3 Lighting / PDLS HLDL3 HLDL2 TH2 (5 types)

LEL

HPD2

LDM2

LAV PDM LFXV LFX3

LFX3-PT

LFV3-G

LFV3

Collimated Lighting DAW

Strobe ighting

HST-bCT

Small COB Lights DW Lights

UV3/VL3

UV2

UV

UV

LNSP-UV3-FN LNSP-UV-FN

IR2 (Under 1000-nm Type) IR (Over 1000-nm Type)

CIR Sontrol

HLV3

LV

LSP

LNSP2 Coaxial LNSP-F Coaxial Units LNSP-FN LN/LN-HK

> LNSD LND2

LT LNV

LFXV (Rectar TH2 /Rectangular Type)

LNDG LNIS2 LNIS LNIS-FN Telecentric Lens Macro Lens

HFS/HFR

HLV3-22-4-NR

HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFB3

Diffused Lighting LLighting LLighting



your smartphone or cell phone.

Options



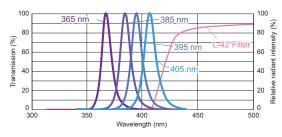
Blocks light with a wavelength of 420 nm or lower, transmits light with a longer wavelength.

Ultraviolet cutting filter L42 Series

Model name	Screw hole diam. × Screw pitch
L42-25	M25.5 × P0.5
L42-27	M27.0 × P0.5
L42-30	M30.5 × P0.5
L42-40	M40.5 × P0.5
L42-46	M46.0 × P0.75

P.372

Filter Characteristics and UV-LED Spectral Distribution



Imaging Examples

Workpiece



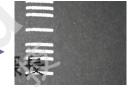
Postcard

Without ultraviolet cutting filter



Without a filter, both UV and visible light are captured.

With ultraviolet cutting filter



By using a UV cut filter, only the excited scattering light from the ink will be captured.

Transmits light with a

and is available for a

wavelengths

wide range of fluorescent

specific range of wavelength



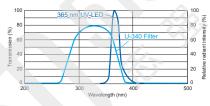
Transmits light with wavelength range of approx. 280 nm to 380 nm, centered around 340 nm

Ultraviolet transmission filter U340 Series

Model name		Screw hole diam. × Screw pitch
	U340-25	M25.5 × P0.5
	U340-27	M27.0 × P0.5
	U340-30	M30.5 × P0.5
	U340-40	M40.5 × P0.5
	U340-46	M46.0 × P0.75

P.372

Characteristics of UV Transmission Filter and UV-LED Spectral Distribution



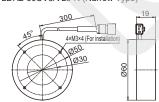
Band-pass filter

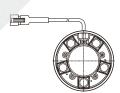
- F-BP Series
- · High transmittance at 90% or greater
- · Hard coated filter with high durability
- Twelve-product lineup available for a wide range of wavelengths

Dimensions (mm)

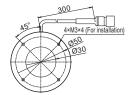
Ring Lights

LDR2-60UV3/VL3-N (Narrow Type)

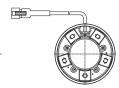




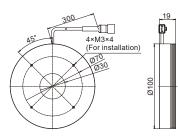
LDR2-60UV3/VL3-W (Wide Type)



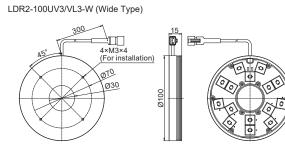




LDR2-100UV3/VL3-N (Narrow Type)







Various technical documents available.

PDF Drawings

DXF Drawings Product Brochures

Instruction Guides

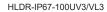
Data

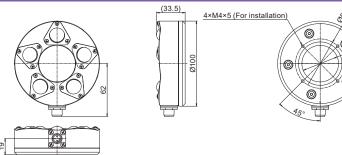
Register to use them.

^{*} Y48 filters to absorb wavelengths 480 nm or smaller are available for VL3 Series. Contact our local sales office for details.

Dimensions (mm)

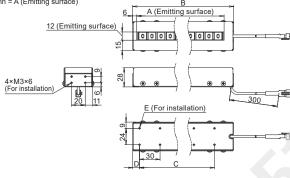
Ring Lights (Waterproof Type)

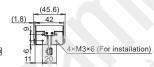




Bar Lights

LDL-nnnX12UV3/VL3-N/-W (drawings for both narrow type and wide type) nnn = A (Emitting surface)

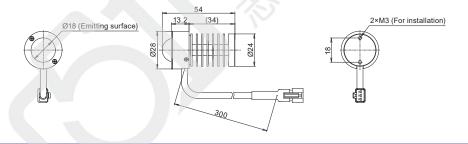




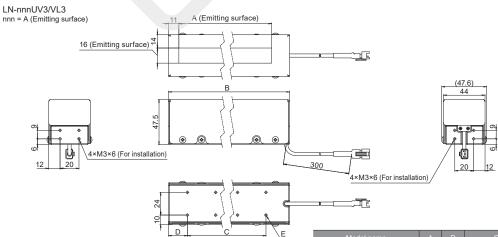
Model name	A	В		D	E
LDL-71X12UV3/VL3-N/-W	71	91	P30×2=60	10	6×M3×6
LDL-138X12UV3/VL3-N/-W	138	158	P30×4=120	10	10×M3×6
LDL-205X12UV3/VL3-N/-W	205	225	P30×6=180	20	14×M3×6
LDL-339X12UV3/VL3-N/-W	339	359	P30×10=300	29.5	22×M3×6

Spot Lights

HLV2-24UV3/VL3



Line Lights



LN-61UV3/VL3 6×M3×6 61 91 P30×2=60 10 LN-128UV3/VL3 158 10×M3×6 128 P30×4=120 10 LN-195UV3/VL3 195 225 P30×6=180 20 14×M3×6

You can inquire using our website.

Sample Testing Light Unit Selection Free Product Trial Custom Orders Product Details Pricing/ Quotation Discontinued Products Inquire on our website here. https://www.ccs-grp.com/contact/

HLDL3 all behavior of find paid of find paid

HLDR-IP -- Japan M HSL-PCL M 8000 Small COB Lights

UV3/VL3
UV2
UV
UV
SP-UV3-FN

Under 1000-nm Type)

(Over 1000-nm Type)

CIR

HLV3 LV LSP HES/HFR 19, Etc. Control

HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFB3 LNLP

LNSP2 to be considered to the constant Units of the Constant Units

LNSD
LND2
LT
LNV
LFXV
(Rectangular Type)
TH2

(Rectangular Type)
TH2
(Rectangular Type)
LNDG
BB
LNIS2
LNIS2
LNIS abigs

LNIS-FN C

Telecentric Lens Macro Lens

LDR2-LA LDR-LA1 SQR SQR-TF Bulting HLDR3

Diffuser, Lighting TRE

FPQ3 Lighting / TDLS

B HLDL3 HLDL2 TH2 (5 types) LEL

> HPD2 LDM2

LAV PDM

LFXV

LFX3

LEV3

Sollimated Lighting MEN CAW

Strobe ighting

HSL-PCL

Small COB Lights

UV3/VL3 UV2 UV

CIR

HLV3

LNLP Coaxial LNSP-F Coaxial Units

LNSP-FN

LN/LN-HK

LNSD LND2

LT

LNV LFXV (Rectar TH2 /Rectangular Type) LNDG E LNIS2 E LNIS LNIS-FN

LV LSP HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFB3

Sontrol

LNSP-UV3-FN LNSP-UV-FN

IR2 (Under 1000-nm Type)

IR (Over 1000-nm Type)

LFX3-PT

LFV3-G

Ultraviolet/Violet Line Lights

Refer to our website for product details.

vour smartphone or cell phone.

Increased range of applications with high output and 4 wavelengths





LNSP-UV3/VL3-FN Series

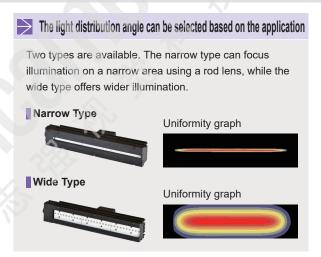


* 365 nm wavelength for ultraviolet light UV3 Series. 385 nm, 395 nm, and 405 nm wavelengths for violet light VL3 Series

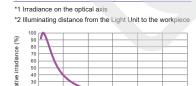
Applications

Seal material presence inspection using fluorescence excitation, various inspections using different spectral reflectance, various inspections using scattering rate differences

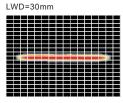
Increased brightness compared with conventional products Narrow Type comparison Approx. LNSP-UV-FN (Conventional product) 1.5x LNSP-UV3-FN 50 100 150 (%) * Comparison with LWD10 mm Wide Type comparison XoraaA LNSP-UV-FNNR (Conventional product) LNSP-UV3-FNNR 50 100 150 (%) * Comparison with LWD10 mm

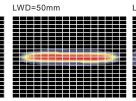


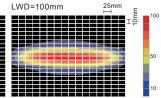
Data: Relative Irradiance Graph and Uniformity (Representative Example) The data included is for reference only. Actual values may vary LNSP-300UV3-365-FN (Narrow Type) Relative irradiance graph Uniformity (Relative irradiance) (LWD characteristics)*2



LWD (mm)

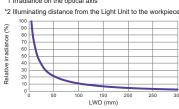


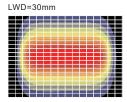


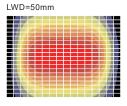


LNSP-300UV3-365-FNNR (Wide Type) Relative irradiance graph

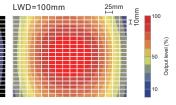
(LWD characteristics)*2 *1 Irradiance on the optical axis







Uniformity (Relative irradiance)



Various technical documents available.

DXF

Product

Register to use them.

Macro Lens

Lineup End of the model name -FN: Narrow Type / -FNNR: Wide Type

Wavelength 385/395/405 nm will be manufactured on a built-to-order system.

Model name ^{•1}	LED color	Power consumption 2	Extension cables	Recommended Control Units	Weight	
LNSP-100UV3-365-FN	Ultraviolet				000 =	
LNSP-100VL3-□-FN	Violet	20.14			900 g	
LNSP-100UV3-365-FNNR	Ultraviolet	36 W			700	
LNSP-100VL3FNNR	Violet	1				700 g
LNSP-200UV3-365-FN	Ultraviolet				4.000	
LNSP-200VL3-□-FN	Violet	70.14/	QCBM PSCC-30048 (A) PSCC-60048 (A)	1,300 g		
LNSP-200UV3-365-FNNR	Ultraviolet	70 W		4.000		
LNSP-200VL3-□-FNNR	Violet				1,000 g	
LNSP-300UV3-365-FN	Ultraviolet	103 W			4.700	
LNSP-300VL3-□-FN	Violet	104 W		.0	1,700 g	
LNSP-300UV3-365-FNNR	Ultraviolet	103 W			4.000	
LNSP-300VL3FNNR	Violet	104 W			1,300 g	
1 □ in the model name contains		1				

¹ \square in the model name contains the wavelength 385/395/405.

*2 Power consumption includes the cooling fan.

Control Unit Selection Guide ▶ P.321 List of Control Unit Specifications ▶ P.323

Options



Blocks light with a wavelength of 420 nm or lower, transmits light with a longer wavelength.

Ultraviolet cutting filter L42 Series

Model name	Screw hole diam. × Screw pitc	
L42-25	M25.5 × P0.5	
L42-27	M27.0 × P0.5	
L42-30	M30.5 × P0.5	
L42-40	M40.5 × P0.5	
L42-46	M46.0 × P0.75	





Transmits light with wavelength range of approx. 280 nm to 380 nm, centered around 340 nm.

Ultraviolet transmission filter U340 Series

Model name	Screw hole diam. × Screw pitch
U340-25	M25.5 × P0.5
U340-27	M27.0 × P0.5
U340-30	M30.5 × P0.5
U340-40	M40.5 × P0.5
U340-46	M46.0 × P0.75
D272	

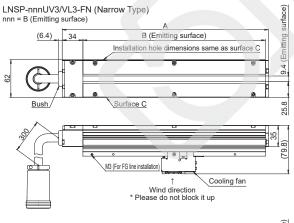


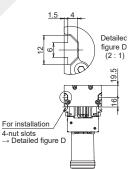
Transmits light with a specific range of wavelength and is available for a wide range of fluorescent wavelengths

Band-pass filter F-BP Series

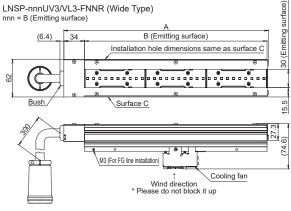
- · High transmittance at 90% or greater
- · Hard coated filter with high durability
- Twelve-product lineup available for a wide range of wavelengths
- ▶ P.369

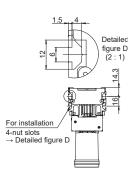
Dimensions (mm)





Model name	А	В
LNSP-100UV3/VL3-FN	139	100
LNSP-200UV3/VL3-FN	239	200
LNSP-300UV3/VL3-FN	339	300





Model name	А	В
LNSP-100UV3/VL3-FNNR	136.3	100
LNSP-200UV3/VL3-FNNR	236.3	200
LNSP-300UV3/VL3-FNNR	336.3	300

You can inquire using our website.

Light Unit Selection

Free Product Trial

Custom Orders

Product Details

Discontinued Products

Inquire on our website here https://www.ccs-grp.com/contact/

LDR-LA1 SQR SQR-TP HLDR3 HPR2 LER PRINGED LIFE LFR LDLB HLDL3 HLDL2 TH2 (5 types) LEL HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-PT LEV3 LFV3-G MSU MFU HSL-PCI Small COB Lights LNSP-UV3-FN LNSP-UV-FN IR (Over 1000-nm Type) CIR IU HLV3

LV LSP 2 HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150

PFB3 LNLF LNSP2 Coaxial Units LNSP-FN

LN/LN-HK LNSD LND2 LT

LNV LFXV (Rectangular Type)

TH2 (Rectangular Type) LNDG 3 LNIS2 A BUI

FNIS SINT LNIS-FN d

Telecentric Lens

Macro Lens

Extension Cables P.381