LDR2 LDR-LA1

> FPQ2 LDL2 LDLB

> LDM2 LAV PDM

LFX3

PF

UV2

HLV3

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

HLV2-NR HLV2-3M-RGB-3W PFB3 LNLP LNSP2

LNSP Coaxial Units

LN/LN-HK

LNSD LND2 HLND LT LNV

LNDG LNIS2 LNIS

LNIS-FN

Telecentric Lens

Macro Lens

HLDR-IP/ HSL-PCL

LFX3-PT MSU MFU

TH2 (5 types) TH LFL

Direct SQR SQR-TP HPR2 LKR FPR

# **Spot Lighting**

# **Spot Lights** HLV2 Series

Provides high output spot lighting using an original





As a light source for a telecentric lens, light source for alignment of LCDs or circuit boards, light source for dimension measuring, light source for spot illumination, etc.

# Lineup with Selection to Match Your Needs

The HLV2 series provides a selection to match your usage environment and application. The LED color has a lineup of red, white, blue, and green.

### HLV2-14 series, with a lightweight and compact design

#### Compact model

The HLV2-14 series is perfect for saving space, with its lightweight and compact







### **Spot Lights That Achieve High Output**

The lightweight and compact Spot Light achieved high output through its unique optical design.

### HLV2-22-3W series, a high output model

### Standard model

HLV2-22 series



High output model The HLV2-22-3W series

is a Spot Light with the highest output of all



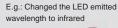
Intensity setting: 35% Shutter speed: 1/20,000 sed

**Example Configuration** 

Brightness varies based on the camera's spectral sensitivity.
The data included is for reference only and does not guarantee the quality of this product.

### **Custom Orders**

Please contact your sales representative.



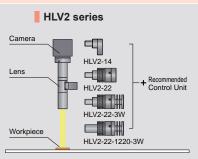


Customizable items



### Revised the optical system

to increase the emitting efficiency for this high output Spot Light.



Various technical

DXF



LDR2

SQR

LDR-LA1

SQR-TF

HPR2

LKR FPR

FPQ2 LDL2 LDLB HLDL2

> TH2 (5 types) TH LFL

HPD2 LDM2 LAV PDM LFX3 LFX3-PT LFV3 Collimated Lighting MED Strobe Lighting Ad

Ultraviolet Clighting UN2 UNSP-UV-FN

HLV3-3M-RGB-4 HLV2-NR HLV2-3M-RGB-3W PFBR PFB3

LNLP

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

LNSD LND2 HLND LT LNV

Convergent Lightin

Diffused Lighting

Deligue Angled Lighting LNIS2 LNIS2 LNIS LNDG LNIS2 LNIS-FN

Telecentric Lens Macro Lens

Lighting L Intensity In Control HLV3 LV LSP HFS/HFR HLV3-NR

Direct Lighting

Diffused Lighting

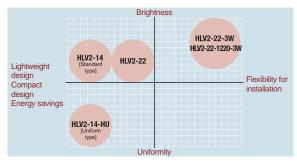
Diffused Lighting

# **Lineup Offering a Selection to Match Your Needs**

#### HLV2 series evaluation chart

	Brightness		Lightweight design	Compact design	Flexibility for installation	Energy savings
HLV2-14 [Standard type]	Good	Good	Very Good	Very Good	Good	Very Good
HLV2-14-HU [Uniform type]	ОК	Very Good	Very Good	Very Good	Good	Very Good
HLV2-22 (Comparison criterion)	Good	Good	Good	Good	Good	Good
HLV2-22-3W	Very Good	Good	ОК	OK	Very Good	Good
HLV2-22-1220-3W	Very Good	Good	OK	OK	Very Good	Good

### HLV2 series evaluation graph



# Imaging Example: Imaging of 2-dimensional Codes



Description	Code reading		
Workpiece	2-dimensional codes		
New lighting	HLV2-22RD-3W		

### HLV2-22RD-3W



2-dimensional code

# Imaging Example: Imaging of Alignment Marks



Description	Positioning		
Workpiece	Alignment marks		
Light Unit in use	HLV2-22SW-3W		

### HLV2-22SW-3W



Alignment mark



LDR2

LKR FPR

FPQ2

LDL2 LDLB to in its i HL TH2 (5 types) TH

LFL

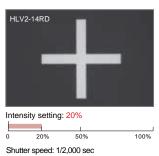
Diffused Lighting HPD2 LDM2 LAV PDM LFX3 LFX3-PT MSU MFU PF HLDR-IP/ HSL-PCL UV2 LNSP-UV-FN IR2 IU HLV3 LV LSP HFS/HFR HLV3-NR HLV3-3M-RGB-4 HLV2-NR HLV2-3M-RGB-3W PFB3 LNIP LNSP2 LNSP Coaxial Units LN/LN-HK

Direct Lighting LDR2-LA LDR-LA1 SQR SQR-TP HPR2



## Comparison of Data for HLV2-14 Series

Brightness comparison between HLV2-14 and HLV2-14-HU





Emitting surface of HLV2-14-HU Emitting surface of HLV2-14

HLV2-14-HU is a Spot Light with a highly uniform emitting surface.

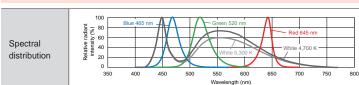
## Lineup

Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Options	Extension cables	Recommended Control Units	Weight
HLV2-14RD	Red	- 0.9 W	645 nm	-	FCB*2 Straight Cable FRCB Robot Cable		40
HLV2-14SW	White		5,300 K			PD3*1   CC-PJ-0707   PJ   PJ2	
HLV2-14BL	Blue		465 nm				18 g
HLV2-14GR	Green		520 nm				
HLV2-14RD-HU	Red	0.9 W	645 nm				18 g
HLV2-14SW-HU	White		4,700 K				
HLV2-14BL-HU	Blue		465 nm				
HLV2-14GR-HU	Green		520 nm	Convergent lens			
HLV2-22RD	Red	1.4 W	645 nm				37 g
HLV2-22SW	White		5,300 K				
HLV2-22BL	Blue		465 nm				
HLV2-22GR	Green		520 nm				
HLV2-22RD-3W	Red		645 nm				41g
HLV2-22SW-3W	White	2.8 W	5,300 K				
HLV2-22BL-3W	Blue		465 nm				
HLV2-22GR-3W	Green		520 nm				
HLV2-22RD-1220-3W	Red	- 2.8 W	645 nm				42 g
HLV2-22SW-1220-3W	White		5,300 K				
HLV2-22BL-1220-3W	Blue		465 nm				
HLV2-22GR-1220-3W	Green		520 nm				

• The length of the extension cable must be 5 m or less. If you want to use longer than 5 m, please contact your sales representative.

Branch cables cannot be used. Use the FCB series (straight cable) or the FRCB series (robot cable).

# **LED Properties**



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

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.

LNSD LND2

HLND LT LNV

LNDG

LNIS2 LNIS LNIS-FN Telecentric Lens

Macro Lens



<sup>\*1</sup> The PD3-3024-3 and PD3-5024-3 series are not applicable to these products.
\*2 The cables with a model name that ends with "-ME7", "-EL2", "-PF", or "-PF-EL9" are not included.

LDR2

SQR SQR-TF HPR2

FPQ2
LDL2
LDLB
HLDL2

LFL

LAV
PDM
LFX3
LFX3-PT
LFV3

HFS/HFR HLV3-NR HLV3-3M-RGB-4

HLV2-NR HLV2-3M-RGB-3W PFBR

PFB3

LNLP

LNSP2

LNSP

LNSD

LND2 HLND

LT

LNDG LNIS2 LNIS

LNIS-FN Telecentric Lens

Macro Lens

Coaxial Units LNSP-FN

LN/LN-HK

Convergent Lightii

Diffused Lighting

Infrared Lighting IK3

HLV3
HLV2
LV
USP

HPD2
LDM2
LAV
PDM

TH2 (5 types

LDR2-LA

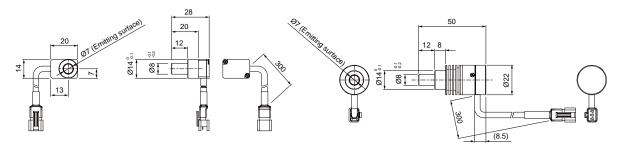
LDR-LA1

Direct Lighting

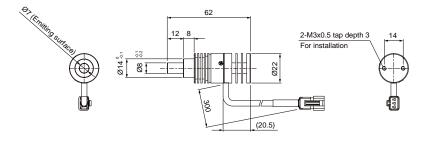
# Dimensions (mm)

HLV2-14RD/SW/BL/GR/RD-HU/SW-HU/BL-HU/GR-HU

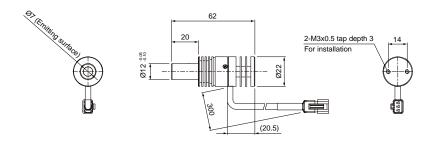
HLV2-22RD/SW/BL/GR



HLV2-22RD-3W/SW-3W/BL-3W/GR-3W



HLV2-22RD-1220-3W/SW-1220-3W/BL-1220-3W/GR-1220-3W



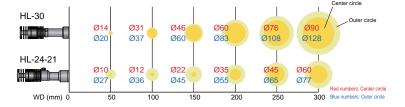
# Options

# HLV2-22 series dedicated condenser lens HL-30 / HL-24-21



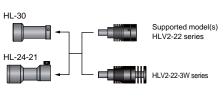
Cannot be used with the HLV2-14 / HLV2-22-1220-3W / HLV2-22-NR-3W series

#### ■Illuminated range of the HL-30 / HL-24-21

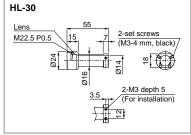


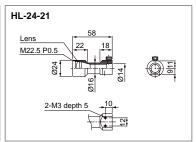
This data is actual measurement values. Results for individual products may vary.

### ■Installation with the HLV2-22 series



#### Dimensions (mm)





You can inquire using our website.

Sample Testing Light Unit Selection

Free Product Trial

Custom Orders

Product Details Pricing/ Quotation Discontinued Products



