LDR2 LDR2-LA LDR-LA1 SQR

SQR-TF

HLDR3 HPR2 LFR LKR FPR FPQ3

> HLDL3 LB

HPD2 LDM2 LAV PDM LFXV

LFX3 LFX3-P LFV3

LFV3-G

MSU MFU

PF

UV LNSP-UV3-FN IR2 (Under 1000-nm Type) IR (Over 1000-nm Type)

CIR

LV

LSP

PFB3 LNLP LNSP2 Coaxial Units

LNSP-FN

LN/LN-HK LNSD

LND2

LNV

LNDG

E LNIS2

B LNIS

LNIS-FN Macro Lens

LFXV (Rectangular Type)

TH2 (Rectangular Type)

LT

HFS/HFR

HLV3-22-4-NR

HLV3-3M-RGB-4

PFBR-600SW2 PFBR-150

ensity ontrol

HLDR-IP HSL-PCL

Small COB Lights

Diffused Lighting

Flat Lights

TH2 Series

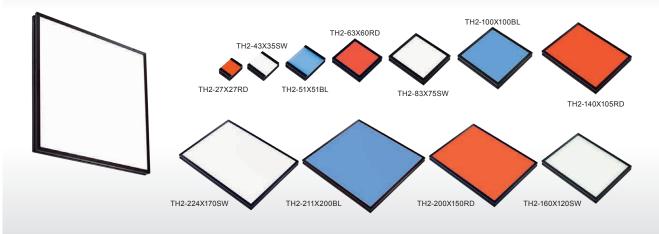
High-Luminance Type

Refer to our website for product details.

CCS TH2 Search



Diffuse illumination from a flat emitting surface



Inspection of liquid surface level in PET bottles, inspection of the appearance of electronic or automobile components, inspection of pinholes, inspection for burr of metal components, etc.

Achieved Further-Higher Luminance

With their increased brightness, these Flat Lights are available at high-speed production lines.

Increased output greater than that of the conventional products

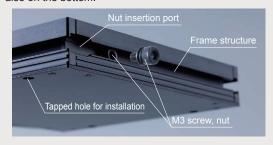


Conventional TH Series TH2 Series White Approx. 2.5x TH2 Series Approx.1.5x TH2 Series Blue Approx.1.5x

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

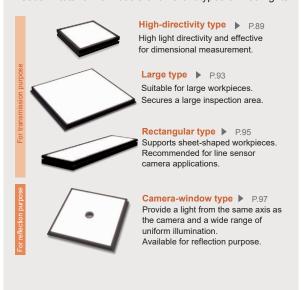
Install freely to match your environment

Uses installation method by frame structure. Tapped holes for installation are included not only on the unit side but also on the bottom.



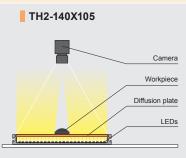
Rich Product Lineup

Our abundant product lineup can meet a wide range of needs. A total of 73 models of different types of Flat Lights.



Example Configuration

Achieved high output with a flat shape. Light from the LEDs is transmitted through the diffusion panel and illuminated on the rear of the workpiece.

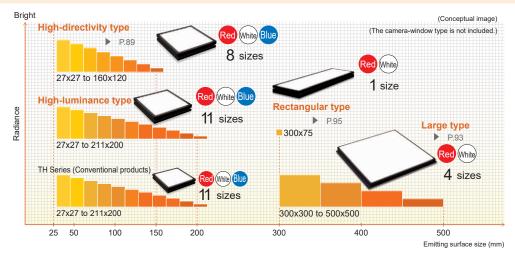


DXF

Product

Register to use them.

Brightness and Size of Each Light Unit Type



Imaging Example: Imaging the Liquid Surface Level in PET Bottles







PET bottles

TH2-140X105SW

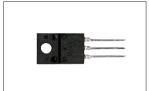


Liquid surface level and the printed text are clearly imaged.

Imaging Example: Imaging the Appearance of Electronic Components

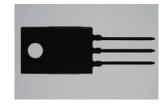


Workpiece image



Electronic components

TH2-63X60SW



The appearance of the resin part and pins are clearly imaged.

Imaging Example: Imaging the Appearance of Medicines (Individual Packaging)



Workpiece image



Medicines (individual packaging)



The state of the cutting edge and perforations are clearly recognized.

You can inquire using our website.

Free Product Trial

Custom Orders

Product Details

Discontinued Products

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

LDR2 LDR2-LA LDR-LA1 SQR SQR-TP HPR2 LFR È LKR FPR HLDL3 LB LEL HPD2 LDM2 LAV PDM LFXV LFX3 MSU MFU Small COB Lights Nr3 / Folk LNSP-UV3-FN CIR IU LV LSP

LNSP-FN

LNLP LNSP2 Coaxial Units

HFS/HFR

HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600SW2 PFBR-150 PFB3

LNDG LNIS Z LNIS-FN

Telecentric Lens Macro Lens

LDR2

LDRZ-L. LDR-LA1 SQR LDR2-LA

SQR-TF HLDR3

HPR2 Ring gent / [

LKR FPR FPQ3 LDL2 LDLB HLDL3 LB

HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-PT LFV3 LFV3-G MSU MFU PF

Mater HSL-PCL Small COB Lights

UV

CIR

LV

LSP

HFS/HFR HLV3-22-4-NR

HLV3-3M-RGB-4 PFBR-600SW2

PFBR-150

LN/LN-HK

TH2 (Rectangular Type)

LND2

LT LNV LFXV (Rectangular Type)

Line Angled)

O LNIS-FN

Telecentric Lens

Macro Lens

PFB3 LNLP LNSP2 Coaxial Units 5 LNSP-FN

tensity control

LNSP-UV3-FN IR2 (Under 1000-nm Type) IR (Over 1000-nm Type)

TH2 Series **High-Luminance Type**



Refer to our website for product details.

CCS TH2

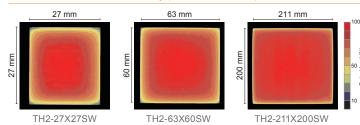




Data: Uniformity (Representative Example)

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

Uniformity (Relative radiance)



Lineup

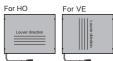
	Input	Power Consumption			Extension	Recommended		
Model Name*1	Voltage	RD (Red)	SW (White)	BL (Blue)	Options	Cables	Control Units	Weight
TH2-27X27□□	24 V	2.3 W	2.9 W	2.7 W	Light control film Bracket	PD4		30 g
TH2-43X35□□	24 V	4.9 W	4.8 W	4.8 W				40 g
TH2-51X51□□	24 V	6.5 W	8.2 W	8.2 W				60 g
TH2-63X60□□	24 V	9.9 W	9.7 W	9.7 W				100 g
TH2-83X75□□	24 V	15 W	16 W	16 W				140 g
TH2-100X100□□	24 V	26 W	25 W	25 W				200 g
TH2-140X105□□	24 V	28 W	28 W	28 W				260 g
TH2-160X120	24 V	35 W	35 W	35 W				310 g
TH2-200X150	24 V	45 W	44 W	44 W				440 g
TH2-224X170	24 V	66 W	66 W	66 W			540 g	
TH2-211X200□□	24 V	67 W	65 W	65 W				580 g
LED Properties: Light Spectrum ▶ P.396								

^{*1} $\square\square$ in the model name contains the LED color. (RD: Red, SW: White, BL: Blue)

Options



In this plastic film are fine louvers with extremely narrow gaps between them. It reduces light diffusion in a particular direction and increases parallelism.





This is a dedicated bracket for affixing the TH2 Series light units. The TH2 Series can be affixed in four points.

Bracket

	Model name	Applicable Light Unit (Common for all colors)
	BK-TH-LE12	Installation bracket common to all TH2 models (includes 4)

P.369

Light control film

the HO and the VE. For details, refer to P.367.

There are two types of light control lillins, the f		
Model name	Applicable Light Unit (Common for all colors)	
LC-TH-27X27-HO	TH2-27X27	
LC-TH-27X27-VE		
LC-TH-43X35-HO	TH2-43X35	
LC-TH-43X35-VE	1112-43835	
LC-TH-51X51-HO	TH2-51X51	
LC-TH-51X51-VE	102-51751	
LC-TH-63X60-HO	TH2-63X60	
LC-TH-63X60-VE	1112-03/100	

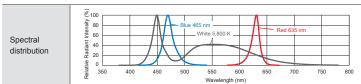
Model name	Applicable Light Unit (Common for all colors)	
LC-TH-83X75-HO	TH2-83X75	
LC-TH-83X75-VE		
LC-TH-100X100-HO	TH2-100X100	
LC-TH-100X100-VE	1 In2-100X100	
LC-TH-140X105-HO	TH2-140X105	
LC-TH-140X105-VE	1m2-140X105	
LC-TH-160X120-HO	TH2-160X120	
LC-TH-160X120-VE	TH2-100X120	

Model name	Applicable Light Unit (Common for all colors)	
LC-TH-200X150-HO	TH2-200X150	
LC-TH-200X150-VE	1112-2007 150	
LC-TH-224X170-HO	TH2-224X170	
LC-TH-224X170-VE	IHZ-224X170	
LC-TH-211X200-HO	TH2-211X200	
LC-TH-211X200-VE	IHZ-211X200	

P.367

LED Properties

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



Lens filters suitable for each wavelength are available. For details about the lens filter, refer to P.359.

Before using the product, be sure to read the User Manual attached to the product and follow the usage precautions.

* For both TH2 (current product) and TH (former product), the correlated color temperature as a light is 5800K, and the correlated color temperature for the LED alone is 6600K, yielding no difference

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

Instruction Guides

Register to use them.

^{*2} For information on the combination of light units and POD Series control unit, please refer to our website. https://www.ccs-grp.com/lnk/qr/pod

LDR2 LDR2-LA

LDR-LA1 SQR

SQR-TP

HLDR3

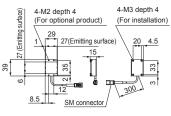
HPR2

LFR È

LKR

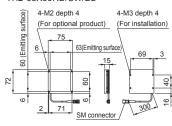
Dimensions (mm)

Even for the light units of the same emitting surface size, the thickness and other dimensions of the product differ between the high-luminance and high-directivity type light units. Be sure to check the dimension diagrams before installing the light units.



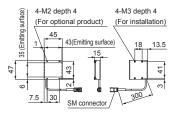


TH2-63X60RD/SW/BL



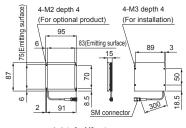


TH2-43X35RD/SW/BL



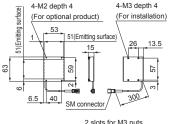


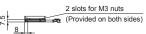
TH2-83X75RD/SW/BL



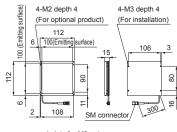


TH2-51X51RD/SW/BL

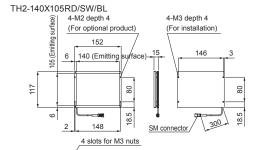


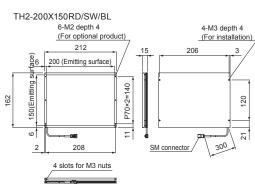


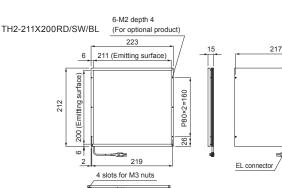
TH2-100X100RD/SW/BL

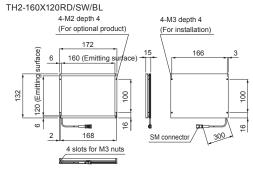


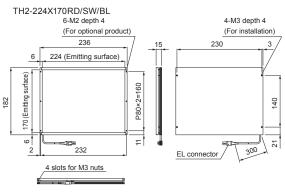
4 slots for M3 nuts

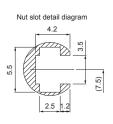












You can change the connectors of the light unit cable. Choose between M12 connectors and flying leads. Refer to P.19 for details.

4-M3 depth 4

(For installation)

160

You can inquire using our website.

Sample Testing Light Unit Selection

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Product Details

300

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LDL2 HLDL3 LB LEL HPD2 LDM2 LAV PDM LFXV LFX3 MSU MFU HLDR-IP HSL-PCI Small COB Lights Nr3 / Folk LNSP-UV3-FN CIR IU HLV3 LV LSP HFS/HFR

HLV3-22-4-NR

HLV3-3M-RGB-4

PFBR-600SW2

PFBR-150

Coaxial Units

LNSP-FN

LN/LN-HK

TH2 (Rectangular Type

LNSD LND2

LNV

LNDG

LNIS2

LNIS

LNIS-FN
Telecentric Lens
Macro Lens

PFB3 LNLP LNSP2