LDR2 LDR2-LA LDR-LA1

SQR-TP

HPR2
LFR
LKR
FPR
FPQ2
LDL2
LDL2
LDLB
HLDL2
HL

TH LFL HPD2 LDM2 LAV

PDM

LFX3 LFX3-PT

MFU

PF

UV2

IU

HLV3

HLV2

HLV3-NR

HLV2-NR

PFB3

LNLP

LNSP2

LNSP

Coaxial Units

LN/LN-HK LNSD

LND2

HLND LT

LNV

LNDG

LNIS2

LNIS

LNIS-FN

Telecentric Lens Macro Lens

HLV3-3M-RGB-4

HLV2-3M-RGB-3W

LV LSP HFS/HFR

HLDR-IP/ HSL-PCL

SQR DID

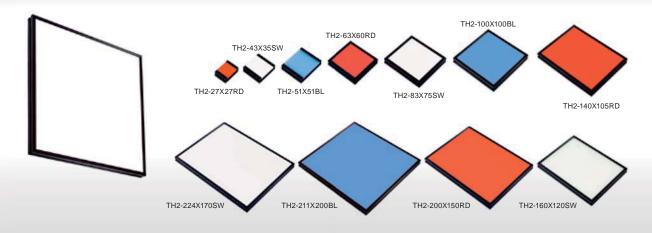
# **Diffused Lighting**

# Flat Lights

TH2 Series

**High-Luminance Type** 

# Diffuse illumination from a flat emitting surface



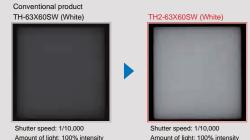
Applications

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

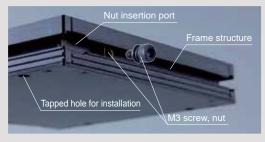


Conventional
TH series
TH2 series
White
TH2 series
Red
TH2 series
Red
TH2 series
Red
TH2 series
Approx.1.5x
Approx.1.5x

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.



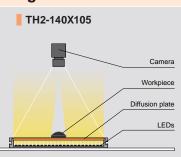
### Rich Product Lineup

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



### Example Configuration

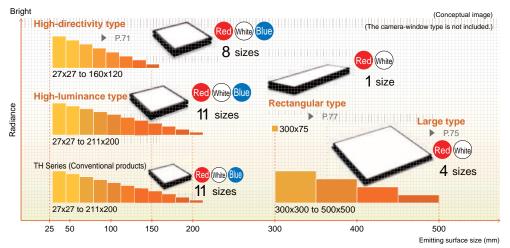
Achieved high output with a flat shape. Light from the LEDs is transmitted through the diffusion panel and illuminated on the rear of the workpiece.





For the high-luminance type 63 x 60 models

► P.253



### Imaging Example: Imaging the Liquid Surface Level in PET Bottles



Workpiece image



PET bottles

TH2-140X105SW

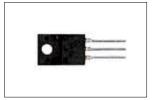


Liquid surface level and the printed text are clearly imaged.

## Imaging Example: Imaging the Appearance of Electronic Components

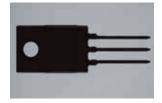


Workpiece image



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)

TH2-200X150SW



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



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

LKR Diffused L FPR FPQ2 LDL2 LDLB HLDL2 HL TH

LFL HPD2 LDM2 LAV PDM LFX3 LFX3-P1 MFU

Strobe Lighting UV2 UV LNSP-UV-FN

IR2 ΙU

> HLV3 HLV2 LV LSP HFS/HFR HLV3-NR HLV3-3M-RGB-4 HLV2-NR

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

LNSP Coaxial Units LNSP-FN Son LN/LN-HK Diffused Lighting LNSD LND2 HLND

LT LNV LNDG LNIS2 LNIS

LNIS-FN Telecentric Lens Macro Lens

SQR

MFU

# **TH2** Series

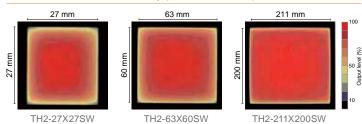
**High-Luminance Type** 



## Data: Uniformity (Representative Example)

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

#### Uniformity (Relative radiance)



### Lineup

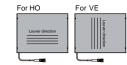
Model name	LED color	Power consumption	Peak wavelength / correlated color temperature 3	Options	Extension cables	Recommended Control Units	Weight
TH2-27X27RD	Red	24 V / 2.3 W	635 nm				
TH2-27X27SW	White	24 V / 2.9 W	5,800 K				30 g
TH2-27X27BL	Blue	24 V / 2.7 W	465 nm				
TH2-43X35RD	Red	24 V / 4.9 W	635 nm		FCB*2 Straight Cable	PD3	
TH2-43X35SW	White	24 V / 4.8 W	5,800 K				40 g
TH2-43X35BL	Blue	24 V / 4.0 VV	465 nm				
TH2-51X51RD	Red	24 V / 6.5 W	635 nm				60 g
TH2-51X51SW	White	24 V / 8.2 W	5,800 K				
TH2-51X51BL	Blue	24 V / 6.2 VV	465 nm		FCB-W*3		
TH2-63X60RD	Red	24 V / 9.9 W	635 nm		2-branch Cable		
TH2-63X60SW	White	24 V / 9.7 W	5,800 K		FCB-F		100 g
TH2-63X60BL	Blue	24 V / 9.7 VV	465 nm		4-branch		
TH2-83X75RD	Red	24 V / 15 W	635 nm		FRCB Robot Cable  *2 The cables with a model name that ends		140 g
TH2-83X75SW	White	24 V / 16 W	5,800 K				
TH2-83X75BL	Blue	24 V / 16 VV	465 nm				
TH2-100X100RD	Red	24 V / 26 W	635 nm	Light control film  Bracket		PD3	
TH2-100X100SW	White	24 V / 25 W	5,800 K			PSB POD*1	200 g
TH2-100X100BL	Blue	24 V / 25 VV	465 nm	Diddict	with "-ME7",	F3B F0D	
TH2-140X105RD	Red		635 nm		"-EL2", "-PF", or  "-PF-EL9" are  not included.  "3 The cables  with a model  name that ends  with "-EL2" are  not included.		260 g
TH2-140X105SW	White	24 V / 28 W	5,800 K				
TH2-140X105BL	Blue		465 nm				
TH2-160X120RD	Red		635 nm				310 g
TH2-160X120SW	White	24 V / 35 W	5,800 K				
TH2-160X120BL	Blue		465 nm	PD3		PD3 POD*1	
TH2-200X150RD	Red	24 V / 45 W	635 nm				
TH2-200X150SW	White	24 \/ / 44 \//	5,800 K				440 g
TH2-200X150BL	Blue	24 V / 44 W	465 nm				
TH2-224X170RD	Red		635 nm		FCB-EL2 Straight Cable		540 g
TH2-224X170SW	White	24 V / 66 W	5,800 K				
TH2-224X170BL	Blue		465 nm			PD3-10024-8 POD-22024-4-PEI* <sup>1</sup>	
TH2-211X200RD	Red	24 V / 67 W	635 nm				
TH2-211X200SW	White	24 V / 65 W	5,800 K		2-branch Cable	PSB4-30024-PEI	580 g
TH2-211X200BL	Blue		465 nm				
LED Properties: Light Spectru	m ▶ P.326	Extension C	ables ▶ P.308	Control Unit Selection	on Guide P.251	List of Control Unit Specification	ns ▶ P.253

<sup>\*1</sup> The correlated color temperature is the same as that of the conventional product.
TH2: 5,800 K (A value for the Light Unit), Conventional products TH: 6,600 K (A value for individual LEDs)

# **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.





Bracket

This is a dedicated bracket for affixing the TH2 series Light Units. The TH2 series can be affixed in four points.

#### Light control film

There are two types of light control films; the HO and the VE, For details, refer to P.304.

There are two types or i	igni control mins. the ri	
Model name	Applicable Light Unit (Common for all colors)	
LC-TH-27X27-HO	TH2-27X27	
LC-TH-27X27-VE	1112-21 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
LC-TH-43X35-HO	TH2-43X35	
LC-TH-43X35-VE	1112-43/33	
LC-TH-51X51-HO	TH2-51X51	
LC-TH-51X51-VE	1112-31731	
LC-TH-63X60-HO	TH2-63X60	
LC-TH-63X60-VE	1112-03/00	

Model name	(Common for all colors)	
LC-TH-83X75-HO	TH2-83X75	
LC-TH-83X75-VE	102-638/5	
LC-TH-100X100-HO	TH2-100X100	
LC-TH-100X100-VE	IH2-100X100	
LC-TH-140X105-HO	TH2-140X105	
LC-TH-140X105-VE	IHZ-140X100	
LC-TH-160X120-HO	TH2-160X120	
LC-TH-160X120-VE	1mz-100X120	

Model name	Applicable Light Unit (Common for all colors)	
LC-TH-200X150-HO	TH2-200X150	
LC-TH-200X150-VE	1 HZ-200X 150	
LC-TH-224X170-HO	TH2-224X170	
LC-TH-224X170-VE	1112-2247170	
LC-TH-211X200-HO	TH2-211X200	
LC-TH-211X200-VE		

	Model name	Applicable Light Unit (Common for all colors)	
	BK-TH-LE12	Installation bracket common to all TH2 models (includes 4)	
	P.305		

▶ P.304





DXF Drawings

Product Brochures

Imaging Examples

Digital Catalogs



LDR2 LDR2-LA

Direct L SQR

Lighting HPR2 LFR

Diffused L

LDR-LA1

SQR-TF

LKR

FPR FPQ2 LDL2

Lighting HTDT3

н

TH LFL

HPD2 LDM2

LAV PDM

LFX3

MSU MFU

Strobe Lighting

IR2

ΙU

HLV3

HLV2

HFS/HFR

HLV3-NR

HLV2-NR

PFBR PFB3

PFB2

LNLP

LNSP2 LNSP Coaxial Units

LNSP-FN

LN/LN-HK

LNSD

HLND LT LNV

LNDG

LNIS2

LNIS-FN Telecentric Lens Macro Lens

LNIS

Son

Diffused Lighting LND2

HLV3-3M-RGB-4

HLV2-3M-RGB-3W

LV LSP

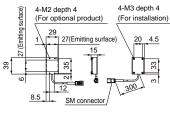
LFX3-P1

UV2 UV UV LNSP-UV-FN

## Dimensions (mm)

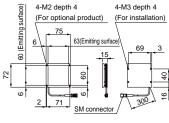
Even for the Light Units of the same emitting surface size, the thickness and other dimensions of the product differ between the high-luminance and high-directivity type Light Units. Be sure to check the dimension diagrams before installing the Light Units.

### TH2-27X27RD/SW/BL



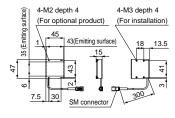


#### TH2-63X60RD/SW/BL



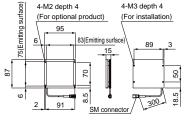


### TH2-43X35RD/SW/BL



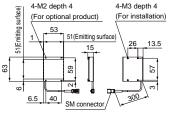






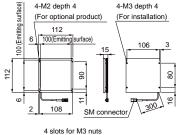


### TH2-51X51RD/SW/BL

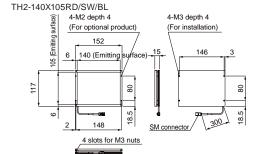


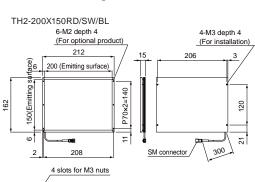


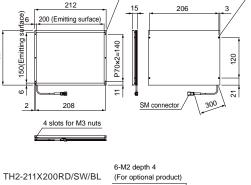
### TH2-100X100RD/SW/BL

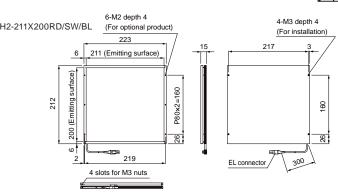


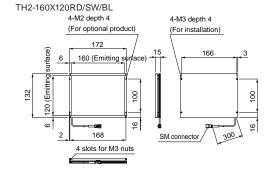


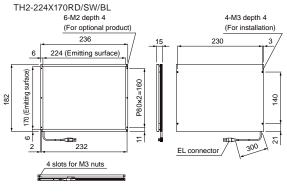


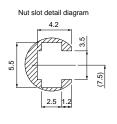












You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.5 for details.

You can inquire using our website.

Free Product

Custom Orders

Product Details

Pricing/ Quotation Discontinued

