LDR2

LKR
FPR
FPQ2
LDL2
LDLB
HLDL2
HL
TH2 (5 types)

LFL HPD2 LDM2 LAV

LFX3

PF

UV2

IR2

IU

HLV3

HLV2 LV

LSP HFS/HFR HLV3-NR

PFB3

LNLP LNSP2

LNSP

Coaxial Units

LN/LN-HK LNSD

> HLND LT LNV

> LNDG LNIS2 LNIS

LNIS-FN

Telecentric Lens

Macro Lens

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

HLDR-IP/ HSL-PCL

LNSP-UV-FN

LFX3-PT LFV3 MSU MFU

SQR DE SQR-TP

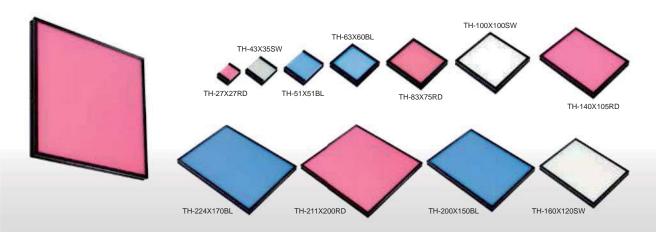
LDR2-LA LDR-LA1

Diffused Lighting

Flat Lights TH Series

The Flat Lights TH series is scheduled to be discontinued on May 31, 2018.

Diffuse illumination from a flat emitting surface



Applications

Dimension measuring, visual inspection, foreign material inspections, liquid level inspection, pinhole inspection, burr inspection of metal parts, etc.

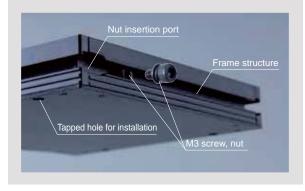
Rich Variety of Sizes with 11 Types

Rich variety of sizes

The lineup consists of 33 models, with 11 sizes of emitting surfaces from 27 x 27 mm to 211 x 200 mm in each color.

Install freely to match your environment

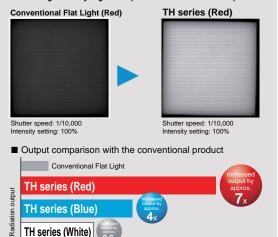
Uses installation method by frame structure. Tapped holes for installation are included not only on the unit side but also on the bottom.



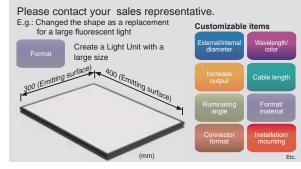
Flat Lights with High Output

This is a Flat Light with surface-mounted LEDs mounted densely. It illuminates diffused light evenly at high output.

Achieved significantly higher output than the conventional product



Custom Orders



Example Configuration

300

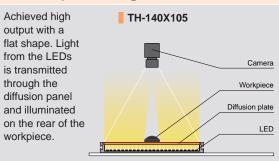
400

500

600

700%

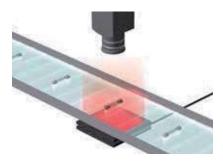
100 200



Imaging



Imaging Example: Imaging Fuse Elements in Glass Tubes



Description	Visual inspection
Workpiece	Glass tube fuses
Conventional lighting	LED Bar Light
New lighting	TH-63X60RD
Result	Emphasized the silhouette





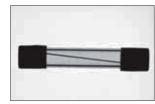
Glass tube fuses

LED Bar Light



Due to reflection from the glass surface, it is difficult to form an image of the element inside the fuse.

TH-63X60RD



Reflection from the glass surface is reduced making it possible to form an image of the element.

Imaging Example: Imaging Engraved Text on Glass Bottles



Description	Character recognition
Workpiece	Glass bottle
Conventional lighting	LED Bar Light
New lighting	TH-83X75BL
Result	Extracts only the engraved text

Workpiece image



Glass bottles

LED Bar Light



Text cannot be recognized and imaging is difficult.

TH-83X75BL



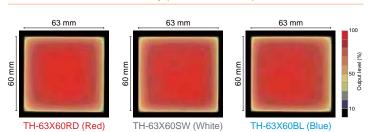
Contrast is good and the text can be clearly imaged.

Data: Uniformity (Representative Example)

TH-63X60

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

Uniformity (Relative radiance)



You can inquire using our website.

Free Product

Custom Orders

Product Details

Pricing/ Quotation

Discontinued



LDR2 LDR2-LA

Direct Lighting LDR-LA1 SQR SQR-TF HPR2
LFR
LKR
FPR
FPR HPR2

FPQ2 LDL2 Lighting HTDT5 TH2 (5 types)

> LFL LDM2 LAV PDM LFX3 LFX3-PT

Strobe Lighting

MFU

IR2 Control L

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 Conv LN/LN-HK Diffused Lighting LNSD LND2 HLND

LT LNV Deligue Angled LNIS2 LNIS2 LNIS LNDG LNIS2 LNIS-FN Telecentric Lens

Macro Lens

LKR FPR FPQ2

MFU

HLV2-3M-RGB-3W

TH Series



The Flat Lights TH series is scheduled to be discontinued on May 31, 2018.

Lineup

Model name	LED color	Power consumption	Peak wavelength / correlated color temperature	Options	Extension cables	Recommended Control Units	Weight
TH-27X27RD	Red	24 V / 1.9 W	635 nm			PD3 CC-ST-1024 PSB POD*1	30 g
TH-27X27SW	White	24 V / 2.2 W	6,600 K				
TH-27X27BL	Blue	Z4 V / Z.Z VV	470 nm				
TH-43X35RD	Red	24 V / 3.8 W	635 nm				
TH-43X35SW	White	24 V / 3.0 W	6,600 K				40 g
TH-43X35BL	Blue	24 V / 3.0 VV	470 nm				
TH-51X51RD	Red	24 V / 5.1 W	635 nm				60 g
TH-51X51SW	White	24 V / 5.2 W	6,600 K				
TH-51X51BL	Blue	24 V / 3.2 VV	470 nm				
TH-63X60RD	Red	24 V / 8.1 W	635 nm		FCB*2		
TH-63X60SW	White	24 V / 7.9 W	6,600 K		Straight Cable		100 g
TH-63X60BL	Blue	24 V / 7.9 VV	470 nm		FCB-W*3		
TH-83X75RD	Red	24 V / 11 W	635 nm		2-branch Cable		
TH-83X75SW	White	24 V / 12 W	6,600 K		FCB-F 4-branch		140 g
TH-83X75BL	Blue	24 V / 12 VV	470 nm		Cable	PSB POD*1	
TH-100X100RD	Red	24 V / 19 W	635 nm		FRCB Robot Cable *2 The cables with a model name that ends		200 g
TH-100X100SW	White	24 V / 18 W	6,600 K	Light control film Bracket			
TH-100X100BL	Blue	24 V / 10 VV	470 nm				
TH-140X105RD	Red	24 V / 25 W	635 nm		with "-ME7", "-EL2", "-PF", or		260 g
TH-140X105SW	White	24 V / 24 W	6,600 K		"-PF-ELS" are not included. '3 The cables with a model name that ends with "-EL2" are not included.		
TH-140X105BL	Blue	24 V / 24 VV	470 nm				
TH-160X120RD	Red	24 V / 28 W	635 nm				310 g
TH-160X120SW	White	24 V / 30 W	6,600 K				
TH-160X120BL	Blue	24 V / 30 VV	470 nm				
TH-200X150RD	Red	24 V / 38 W	635 nm			PD3 POD*1	
TH-200X150SW	White	24 \/ / 27 \/\	6,600 K				440 g
TH-200X150BL	Blue	24 V / 37 W	470 nm				
TH-224X170RD	Red		635 nm				
TH-224X170SW	White	24 V / 41 W	6,600 K				540 g
TH-224X170BL	Blue		470 nm				
TH-211X200RD	Red		635 nm				580 g
TH-211X200SW	White	24 V / 45 W	6,600 K				
TH-211X200BL	Blue		470 nm				
LED Properties: Light Spectru	m ▶ P.326	Extension Cab	bles ▶ P.308	Control Unit Selection (Guide ▶ P.251	List of Control Unit Specification	ns ▶ P.253

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.

antral film

Light control film			
Model name	Applicable Light Unit (Common for all colors)		
LC-TH-27X27-HO	TH-27X27		
LC-TH-27X27-VE			
LC-TH-43X35-HO	TH-43X35		
LC-TH-43X35-VE	111-43/33		
LC-TH-51X51-HO	TH-51X51		
LC-TH-51X51-VE	10-51751		
LC-TH-63X60-HO	TH-63X60		
LC-TH-63X60-VE	111-03/00		

(Common for all colors)	woder name	(Common for all color	
TH-27X27	LC-TH-83X75-HO	TH-83X75	
ΙΠ-2/ Λ2/	LC-TH-83X75-VE	111-03//5	
TH-43X35	LC-TH-100X100-HO	TH-100X100	
111-43/33	LC-TH-100X100-VE	1H-100X100	
TH-51X51	LC-TH-140X105-HO	TH-140X105	
10-51751	LC-TH-140X105-VE	IH-140X105	
TH-63X60	LC-TH-160X120-HO	TH-160X120	
	LC-TH-160X120-VE	111-100X120	

P.304

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

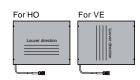


This is a dedicated bracket for affixing the TH series Light Units. The TH series can be affixed in four points.

Bracket

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

P.305







DXF Drawings

Product Brochures

3D CAD

Data Sheets

Model name

LC-TH-200X150-HO

LC-TH-200X150-VE

LC-TH-224X170-HO

LC-TH-224X170-VE LC-TH-211X200-HO

LC-TH-211X200-VE

Applicable Light Unit (Common for all colors)

TH-200X150

TH-224X170

TH-211X200

Digital Catalogs



LDR2

LDR2-LA LDR-LA1 SQR

SQR-TF

HPR2

LKR FPR

FPQ2 LDL2

TH2 (5 types LFL

HPD2 LDM2

LAV

PDM LFX3

MSU

MFU

Strobe Lighting

IR2

ΙU

HLV3 HLV2

LV

LSP

HFS/HFR HLV3-NR

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

PFBR

PFB3

PFB2 LNLP LNSP2 LNSP

HLV3-3M-RGB-4

Coaxial Units

LNSP-FN

LN/LN-HK

LNSD

LT

LNV

LNDG

LNIS2

Macro Lens

LNIS LNIS-FN Telecentric Lens

Con

Diffused Lighting LND2 HLND

LFX3-P1 LFV3

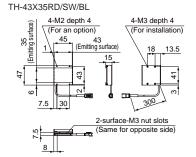
LDLB HLDL2

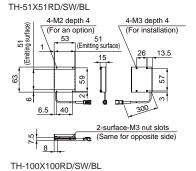
Direct Lighting

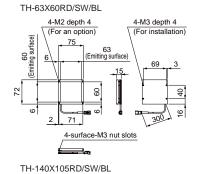
Diffused Lighting

Dimensions (mm)

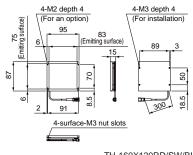
TH-27X27RD/SW/BL 4-M2 depth 4 (For an option) 4-M3 depth 4 (For installation) 29 33 8.5 2-surface-M3 nut slots (Same for opposite side)



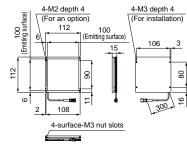


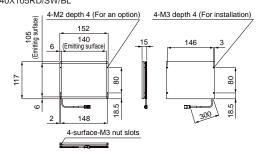


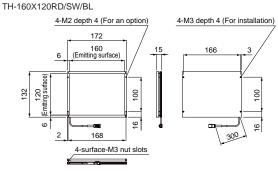
10.5

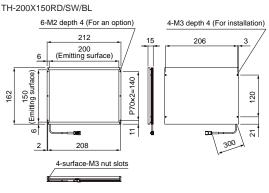


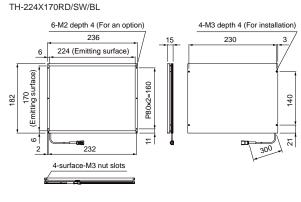
TH-83X75RD/SW/BL

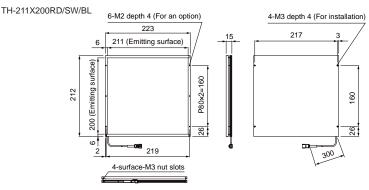


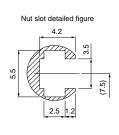












You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.5 for details.

You can inquire using our website.

Light Unit Selection

Free Product

Custom Orders

Product Details

Pricing/ Quotation

Discontinued