SQR-TP

LFV2

LNSD LND2 HLND Psell

LNV/HLDN

LNIS engled Charles Control Charles Charles Charles Charles Charles Charles Charles

Macro Lens

We have vario

Refer to our website for product details.

CCS FPR

Use a search engine



You can also use your smartphone or cell phone.

Provides diffused light at a low angle from an angled emitting surface



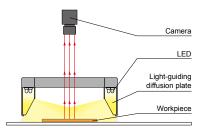
Applications

Edge extraction of metal parts, character recognition for electronic parts, inspection for parts on circuit boards, label inspections, and imaging of alignment marks, etc.

Characteristics

Light from the vertically-arranged LEDs is transmitted through the light-guiding diffusion plate and uniform diffused light is illuminated centrally on the workpiece from a low angle.

Example configuration (FPR-100)



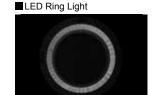
We accept custom orders. Please feel free to inquire.

- Change to format
- Increase brightness
- Change to wavelength, etc.

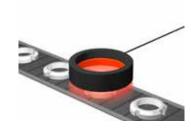
Imaging example: Exterior imaging for metal parts



Workpiece: Nut for bearings



It is difficult to evenly illuminate the slanted exterior.



FPR-136RD2



It is possible to evenly illuminate the slanted exterior.

Data: Relative irradiance graph/Uniformity graph (Representative example)

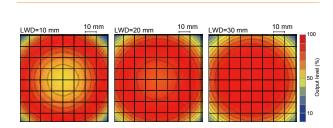
FPR-100RD2 Relative irradiance graph (LWD Characteristics) (2)

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

100 \$\sec{\section}{\section} \text{ and } \text{ } \tex

Uniformity graph (Relative irradiance)

*The graph included is for reference only and does not guarantee the quality of this product.



We have various materials.

PDF Drawings DXF Drawings CAD Ins

Instruction Guides

Product Fliers

Imaging Samples

Data Sheets Custom Order Products

Download here. http://www.ccs-grp.com/dl/ ► P.223

Lineup

Options

▶ P.215

Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Options	Recommended Control Units	Weight
FPR-100RD2	Red	24 V / 6.1 W	630 nm			
FPR-100SW2	White	24 V / 7.6 W	5,500 K	_	PD3 CC-ST-1024 PSB PTU2	220 g
FPR-100BL2	Blue		470 nm			
FPR-100GR2	Green		525 nm			
FPR-136RD2	Red	24 V / 9.1 W	630 nm	_	PD3 CC-ST-1024* PSB PTU2 *Can only use red.	300 g
FPR-136SW2	White	24 V / 12 W	5,500 K			280 g
FPR-136BL2	Blue		470 nm			200 -
FPR-136GR2	Green		525 nm			300 g
FPR-180RD2	Red	24 V / 13 W	630 nm			400 g
FPR-180SW2	White		5,500 K		PD3	380 g
FPR-180BL2	Blue	24 V / 16 W	470 nm	_	PSB PTU2	400 =
FPR-180GR2	Green		525 nm			400 g

Extension Cables P.222

Control Unit Selection Guide ▶ P.181

FPR-136RD2/SW2/BL2/GR2

Control Unit Page ▶ P.185

SQR-TP Convergent Lighting Lighting

LDR2 LDR2-LA LDR-LA1 SQR

HPR LFR LKR

FPQ2 LDL2 HIDLE TOLE HLDL2 TH

> LFL HPD2 HPD LDM2 LAV PDM

LFX2 LFV3 LFV2

Collimated Lighting MED Ultraviolet Lighting LNSP

LNSP-UV-FN Infrared Lighting

HLV2 LV LSP Etc. HFS/HFR HLV2-NR

HLV2-3M-RGB-3W PFB2 PFBR LNSP

Convergent Lighting Con-CNSP-EN CONTROL CONTRO LN/LN-HK

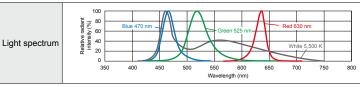
LNSD Diffused HLND ...

LNV/HLDN

LNIS-FN

Macro Lens

LED properties

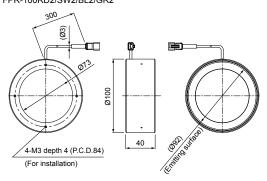


If using a sharp-cut filter, please use the R60 (option). For details about the sharp-cut filter, refer to P.215.

Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

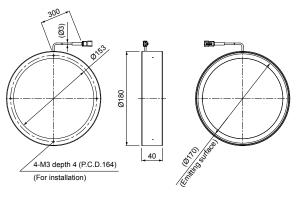
Dimensions (mm)

FPR-100RD2/SW2/BL2/GR2



(8g) Ø136 40 4-M3 depth 4 (P.C.D.120) (For installation)

FPR-180RD2/SW2/BL2/GR2



You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.125 for details.