

# Light Units with Intensity Control Unit

## IU series

Refer to our website for product details.

CCS IU

Search



You can also use your smartphone or cell phone.

For quick access.

Light intensity and light ON/OFF control can be performed without an external controller.



HPR2-IU Series

The light intensity can be set to any of 126 levels by adjusting the Intensity Control Unit.

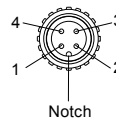
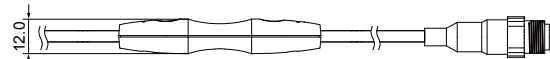
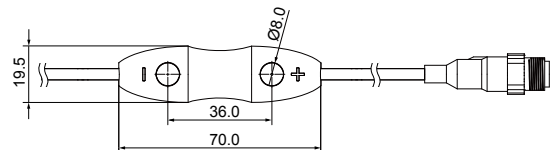
An M12 input connector, to which you can connect **Smart Cameras** and other devices to supply power.

Note: These products are sold only outside Japan.

### Common specifications

Lighting method	Continuous lighting
Drive method	Constant-voltage system
Intensity control method	PWM control
PWM frequency	125 kHz
Input voltage (rating)	24 VDC
Input voltage (range)	21.6 to 24 VDC
Input connector	M12 (4 pins, male)
Cable length	670 mm (including the Intensity Control Unit)

### Dimensions (mm)



Pin No.	Signal
1	24 VDC*1
2	NC
3	COMMON GND
4	ON/OFF input (+24 V)*2

\*1 Voltage rating: 24 VDC, Voltage range: 21.6 to 24 VDC

- The brightness of the Light Unit will be lower when the input voltage is less than 24 VDC.
- Use a stable power source with an output voltage that does not fluctuate.

\*2 Voltage rating: 24 VDC, Voltage range: 20 to 26.4 VDC

### Custom orders

Please contact your CCS sales representative.

E.g.: Different color

#### Customizable items

Wavelength/Color  
Creating a blue LED Light Unit

- External/internal diameter
- Wavelength/Color
- Increase output
- Cable length
- Illuminating angle
- Format/material
- Connector format
- Installation/mounting



Etc.

### Optional accessories

#### Extension Cable

Model name: **FRCB-n-M12-4M-4F** (n=1, 2, 3)

This robot cable is used to extend the Light Unit cable length.

Cable length: 1, 2, 3 m

#### Continuous Lighting Adapter

Model name: **FRCB-0.5-M12-AL-4M4F**

This Adapter is used to continuously turn ON the Light Unit. A robot cable is used.

(Pins 1 and 4 are internally connected.)

Cable length: 0.5 m

LDR2	Direct Lighting
LDR2-LA	
LDR-LA1	
SQR	
SQR-TP	Diffused Lighting
HPR2	
LFR	
LKR	
FPR	Direct Lighting
FPQ2	
LDL2	
LDLB	
HLDL2	Direct Lighting
HL	
TH2 (5 types)	
TH	
LFL	Diffused Lighting
HPD2	
LDM2	
LAV	
PDM	Colimated Lighting
LFX3	
LFX3-PT	
LFX2	
LFV3	Water-proof Lighting
MSU	
MFU	
PF	
HDR-IP/	Ultraviolet Lighting
IQ/HSL-PCL	
UV2	
UV	
LNSP-UV-FN	Intensity Control
IR2	
IU	
HLV2	
LV	Spot Lighting, Etc.
LSP	
HFS/HFR	
HLV2-NR	
HLV2-3M-RGB-3W	Convergent Lighting
PFB	
PFB2	
LNLP	
LNLP2	Diffused Lighting
LNLP	
Coaxial Units	
LNLP-FN	
LN/LN-HK	Oblique-Angled Lighting
LNLD	
LND2	
HLND	
LT	Lenses
LN/HLDN	
LNLDG	
LNIS2	
LNIS	Telecentric Lens
LNIS-FN	
Macro Lens	

## Lineup

### Ring Lights

	Model name	Power consumption (typ.)
HPR2	HPR2-50RD-IU	8.1 W
	HPR2-50SW-IU	9.6 W
	HPR2-75RD-IU	11 W
	HPR2-75SW-IU	11 W
	HPR2-100RD-IU	11 W
	HPR2-100SW-IU	11 W
	HPR2-150RD-IU	11 W
	HPR2-150SW-IU	11 W
LDR2	LDR2-32RD2-IU	2.0 W
	LDR2-32SW2-IU	2.4 W
	LDR2-42RD2-IU	2.5 W
	LDR2-42SW2-IU	3.2 W
	LDR2-50RD2-IU	3.6 W
	LDR2-50SW2-IU	4.3 W
	LDR2-70RD2-IU	6.6 W
	LDR2-70SW2-IU	8.1 W
	LDR2-90RD2-IU	11 W
	LDR2-90SW2-IU	11 W
	LDR2-50RD2-WD-IU	3.6 W
	LDR2-70RD2-WD-IU	6.6 W
LDR2-90RD2-WD-IU	11 W	
LFR	LFR-100RD2-IU	4.1 W
	LFR-100SW2-IU	5.1 W
	LFR-130RD2-IU	5.1 W
LKR	LKR-70RD2-IU	3.0 W
	LKR-70SW2-IU	4.3 W
LDR-LA1	LDR-75RD2-LA1-IU	3.0 W
	LDR-75SW2-LA1-IU	4.3 W
	LDR-96RD2-LA1-IU	3.6 W
	LDR-96SW2-LA1-IU	4.3 W
	LDR-146RD2-LA1-IU	5.1 W
	LDR-146SW2-LA1-IU	6.6 W
	LDR-176RD2-LA1-IU	6.6 W
	LDR-176SW2-LA1-IU	8.1 W
LDR2-LA	LDR-206RD2-LA1-IU	7.6 W
	LDR-206SW2-LA1-IU	9.6 W
	LDR2-48RD2-LA-IU	2.5 W
	LDR2-48SW2-LA-IU	3.6 W
	LDR2-74RD2-LA-IU	5.1 W
	LDR2-74SW2-LA-IU	6.2 W
	LDR2-100RD2-LA-IU	9.6 W
	LDR2-100SW2-LA-IU	11 W
LDR2-132RD2-LA-IU	LDR2-132RD2-LA-IU	11 W
	LDR2-132SW2-LA-IU	11 W

### Bar Lights

	Model name	Power consumption (typ.)
LDL2	LDL2-33X8RD2-IU	3.0 W
	LDL2-33X8SW2-IU	2.5 W
	LDL2-41X16RD2-IU	4.3 W
	LDL2-41X16SW2-IU	4.3 W
	LDL2-41X16RD2-WD-IU	4.3 W
	LDL2-41X16SW2-WD-IU	4.3 W
	LDL2-80X16RD2-IU	8.1 W
	LDL2-80X16SW2-IU	8.1 W
	LDL2-80X16RD2-WD-IU	8.1 W
	LDL2-80X16SW2-WD-IU	8.1 W
	LDL2-119X16RD2-IU	11 W
	LDL2-119X16SW2-IU	11 W
	LDL2-119X16RD2-WD-IU	11 W
	LDL2-119X16SW2-WD-IU	11 W
	LDL2-74X30RD2-IU	11 W
	LDL2-74X30SW2-IU	11 W
	LDL2-74X30RD2-WD-IU	11 W
	LDL2-74X30SW2-WD-IU	11 W

### Square Lights

	Model name	Power consumption (typ.)
FPQ2	FPQ2-32RD-IU	6.6 W
	FPQ2-32SW-IU	5.6 W
	FPQ2-48RD-IU	6.3 W
	FPQ2-48SW-IU	11 W

### Back Lights

	Model name	Power consumption (typ.)
TH2	TH2-27X27RD-IU	2.8 W
	TH2-27X27SW-IU	3.4 W
	TH2-43X35RD-IU	5.4 W
	TH2-43X35SW-IU	5.3 W
	TH2-51X51RD-IU	7 W
	TH2-51X51SW-IU	8.7 W
	TH2-63X60RD-IU	10.4 W
	TH2-63X60SW-IU	10.2 W
	TH2-83X75RD-IU	11 W
	TH2-83X75SW-IU	11 W

### Back Lights (Continued)

	Model name	Power consumption (typ.)
LFL	LFL-612RD2-P-IU	1.0 W
	LFL-612SW2-P-IU	0.9 W
	LFL-1012RD2-IU	1.0 W
	LFL-1012SW2-IU	1.3 W
	LFL-1012RD2-P-IU	1.0 W
	LFL-1012SW2-P-IU	1.3 W
	LFL-3212RD2-IU	2.0 W
	LFL-3212SW2-IU	2.8 W
	LFL-4012RD2-IU	2.5 W
	LFL-4012SW2-IU	3.2 W
	LFL-50RD2-IU	3.0 W
	LFL-50SW2-IU	3.6 W
	LFL-100RD2-IU	5.6 W
	LFL-100SW2-IU	5.8 W

### Dome Lights

	Model name	Power consumption (typ.)
HPD2	HPD2-75RD-IU	11 W
	HPD2-75SW-IU	11 W
	HPD2-100RD-IU	11 W
	HPD2-100SW-IU	11 W
	HPD2-150RD-IU	11 W
	HPD2-150SW-IU	11 W

### Flat Dome Lights

	Model name	Power consumption (typ.)
LFX3	LFX3-50RD-IU	11 W
	LFX3-50SW-IU	11 W
	LFX3-75RD-IU	11 W
	LFX3-75SW-IU	11 W
	LFX3-100RD-IU	11 W
	LFX3-100SW-IU	11 W

### Coaxial Lights

	Model name	Power consumption (typ.)
LFB3	LFB3-CP-13RD-IU	2.5 W
	LFB3-CP-13SW-IU	2.8 W
	LFB3-CP-18RD-IU	3.8 W
	LFB3-CP-18SW-IU	4.6 W
	LFB3-34RD-IU	4.2 W
	LFB3-34SW-IU	3.7 W
	LFB3-35RD-IU	3.6 W
	LFB3-35SW-IU	4.2 W
	LFB3-40RD-IU	5.1 W
	LFB3-40SW-IU	5.1 W
	LFB3-50RD-IU	8.6 W
	LFB3-50SW-IU	11 W
	LFB3-70RD-IU	11 W
	LFB3-70SW-IU	11 W

Note: For information on the LED color, wavelength, and other specifications, refer to those of the Light Unit that does not have "-IU" at the end of the model name.

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our website.

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<http://www.ccs-grp.com/contact/>

Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
Diffused Lighting	SQR-TP
	HPR2
	LFR
Direct Lighting	LKR
	FPR
	FPQ2
	LDL2
Direct Lighting	LDLB
	HLDL2
	HL
	TH2 (5 types)
Diffused Lighting	TH
	LFL
	HPD2
	LDM2
	LAV
	PDM
Direct Lighting	LFX3
	LFX3-PT
	LFX2
Direct Lighting	LFX3
	MSU
	MFU
Strobe Lighting	PF
	Water-proof Lighting
Ultraviolet Lighting	UV2
	UV
	LNSP-UV-FN
Infrared Lighting	IR2
	IU
Spot Lighting, Etc.	HLV2
	LV
	LSP
	HFS/HFR
	HLV2-NR
	HLV2-3M-RGB-3W
Convergent Lighting	PFB2
	PFB2
	LNLP
	LNSP2
Diffused Lighting	LNLP
	Coaxial Units
	LNLP-FN
	LN/LN-HK
Oblique-Angled Lighting	LNLD
	LNLD2
	LNLD
	LT
Lenses	LNLDN
	LNDG
	LNIS2
Lenses	LNIS
	LNIS-FN
Lenses	Telecentric Lens
	Macro Lens