

Light Units with Intensity Control Unit

IU series



R.J. Wilson, Inc.
Imaging Components for Industry & Science

www.rjwilson.com
sales@rjwilson.com
781-335-5500

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



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

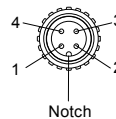
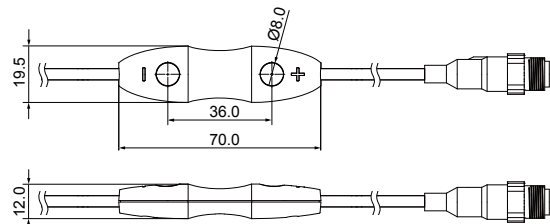
An M12 input connector, to which you can connect **Smart Cameras** and other devices to supply power.

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

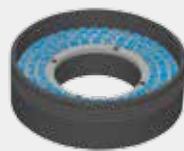
Please contact your CCS sales representative.

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	
HDL2	Direct Lighting
HL	
TH2 (5 types)	
TH	
LFL	Diffused Lighting
HPD2	
LDM2	
LAV	
PDM	Colimated Lighting
LFX3	
LFX3-PT	
LFX2	
LFX3	Water-proof
MSU	
MFU	
PF	
HDR-IP/	Ultraviolet Lighting
IQ/HSL-PCL	
UV2	
UV	
LNSP-UV-FN	Infrared Lighting
IR2	
IU	
HLV2	
LV	Spot Lighting, Etc.
LSP	
HFS/HFR	
HLV2-NR	
HLV2-3M-RGB-3W	Convergent Lighting
PFBR	
PFB2	
LNLP	
LNSP2	Oblique-Angled Lighting
LNSP	
LNSD	
LND2	
HLND	Lenses
LT	
LN/HLDN	
LN/DG	
LNIS2	Macro Lens
LNIS	
LNIS-FN	

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.

You can inquire using
our website.

Requests for
Light Unit
Selection

Requests for
Loan
Products

Requests for
Estimates

Requests for
a Catalog

Product
Inquiries

Other
Inquiries

Inquire on our website here.
<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)	
	TH	
	LFL	
	HPD2	
	Diffused Lighting	LDM2
		LAV
		PDM
LFX3		
Diffused Lighting	LFX3-PT	
	LFX2	
	LFX3	
Colimated Lighting	MSU	
	MFU	
Strobe Lighting	PF	
	Water-proof Lighting	HLDR-IP/IQ/HSL-PCL
Ultraviolet Lighting		UV2
	UV	
Infrared Lighting	LNSP-UV-FN	
	IR2	
Intensity Control	IU	
	Spot Lighting, Etc.	HLV2
		LV
		LSP
		HFS/HFR
	Convergent Lighting	HLV2-NR
		HLV2-3M-RGB-3W
		PFBR
	Convergent Lighting	PFB2
		LNLP
LNSP2		
LNSP		
Diffused Lighting	Coaxial Units	
	LNSP-FN	
Oblique-Angled Lighting	LN/LN-HK	
	LNSD	
	LND2	
	HLND	
Lenses	LT	
	LNV/HLDN	
	LNDG	
	LNIS2	
Lenses	LNIS	
	LNIS-FN	
Lenses	Telecentric Lens	
	Macro Lens	