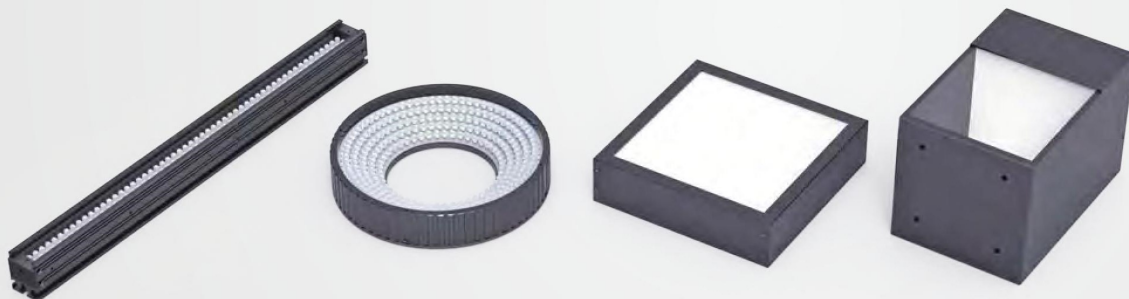


IR Lights OPT-IXX-IR Series



Product Features

Main Features

- Standard products with 850nm and 940nm wavelengths.
- Two levels of radiation intensity of standard products of the same size are optionally available.
- Wavelength, size and radiant intensity can be flexibly customized.

Application Cases

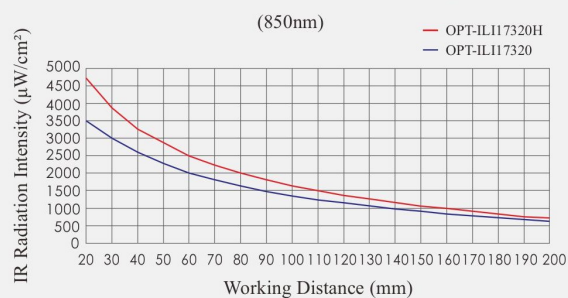
- Medical industry (vascular mesh detection/eye tracking)
- Packaging (transparent plastic materials)
- Clothing and textiles
- Electronics/semiconductors
- Pharmaceutical industry
- LCD/OLED

Customizable Items



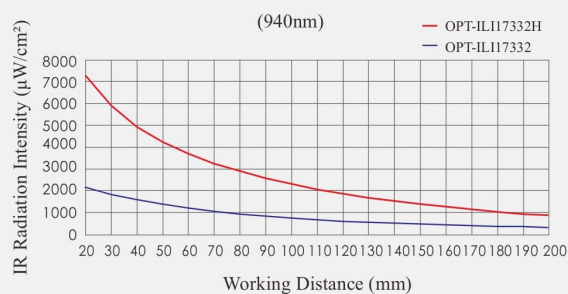
Series features

Change of Radiation Intensity over Working Distance



Note: The data is for reference only.

Change of Radiation Intensity over Working Distance



Note: The data is for reference only.

Application Cases

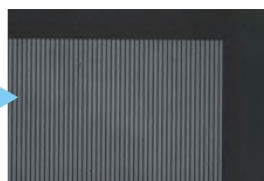
- Positioning of screen-specific areas



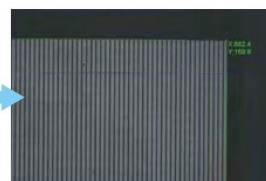
Workpiece



Illumination



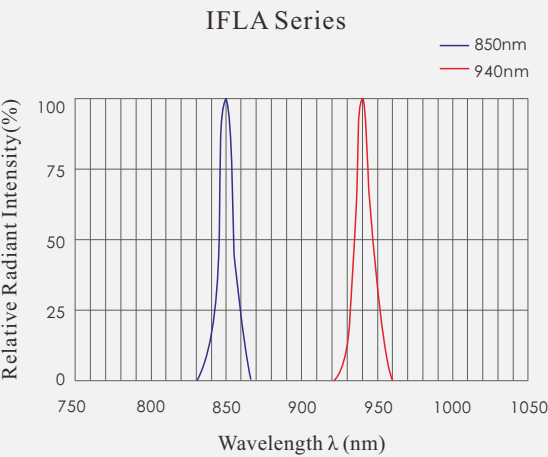
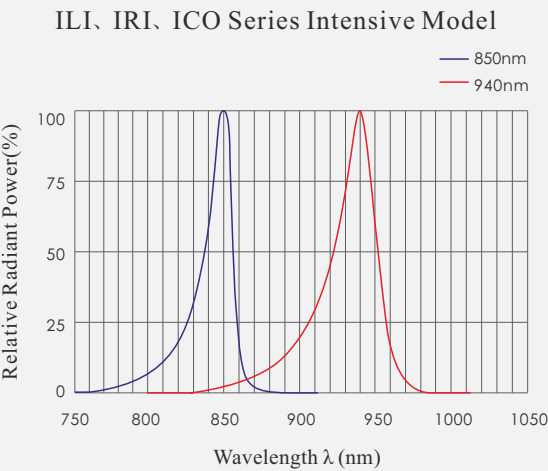
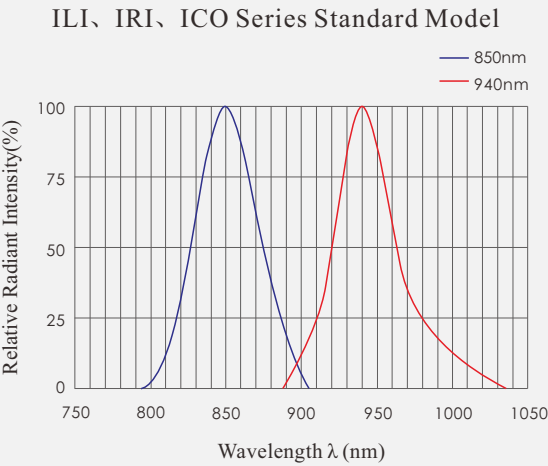
Image



SciSmart Analysis Result

Series features

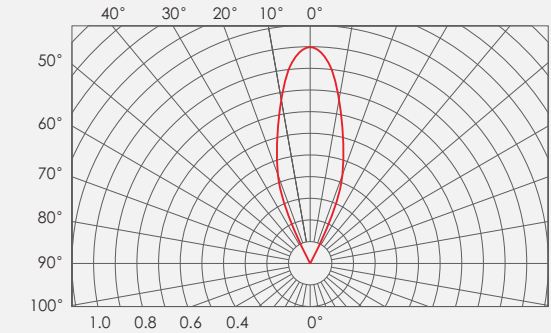
Spectrum Chart



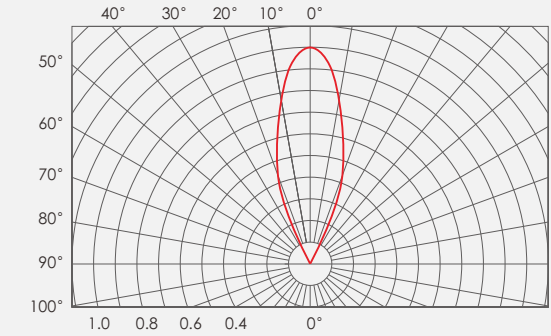
Note: The data is for reference only.

LED Directivity

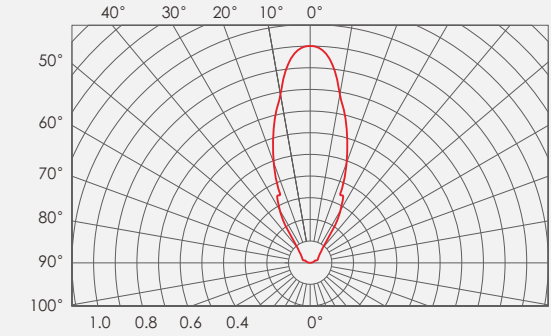
ILI, IRI, ICO Series Standard Model 850nm Band



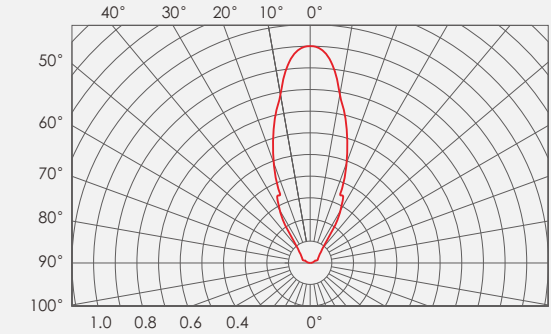
ILI, IRI, ICO Series Standard Model 940nm Band



ILI, IRI, ICO Series Intensive Model 850nm Band



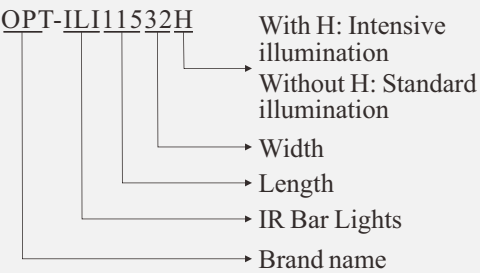
ILI, IRI, ICO Series Intensive Model 940nm Band



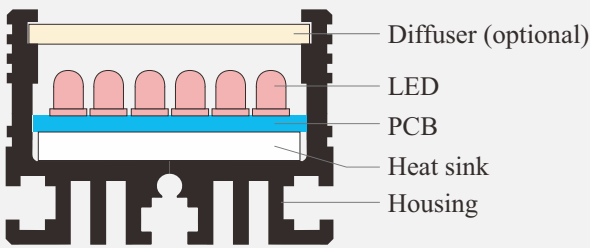
Note: The data is for reference only.

ILI IR Bar Lights

Selection Guide



Section Structure Drawing

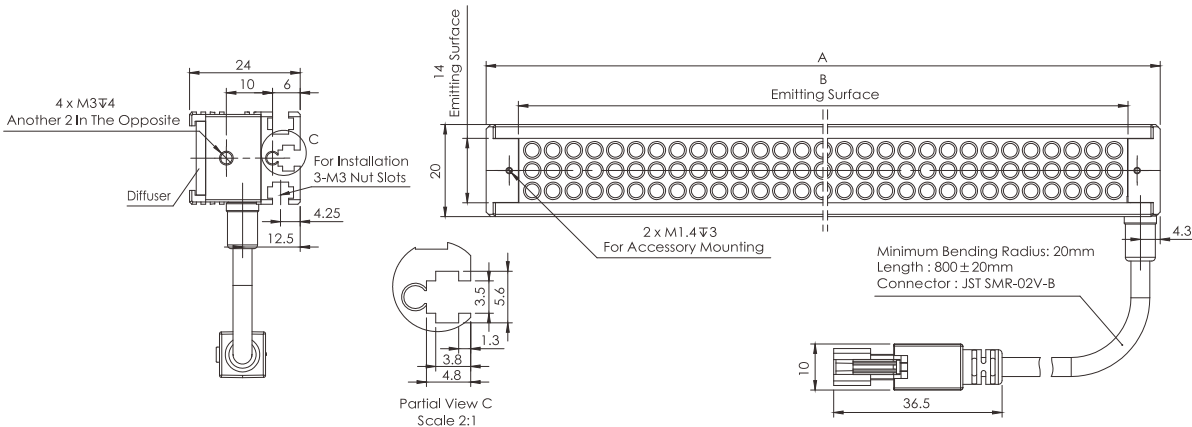


Model Table

No.	Model	* Power @ 850nm	* Power @ 940 nm	Length A(mm)	Emitting B(mm)	Light source width(mm)	Recommended controller
1	OPT-ILI6120	1.9W@24V	1.7W@24V	61	47	20	OPT-DPA2024E
2	OPT-ILI6120H	3.3W@24V	3.2W@24V				
3	OPT-ILI11520	3.7W@24V	3.4W@24V	115	101		
4	OPT-ILI11520H	6.5W@24V	6.5W@24V				
5	OPT-ILI17320	6.3W@24V	5.7W@24V	173	159		
6	OPT-ILI17320H	7.9W@24V	8.6W@24V				
7	OPT-ILI21820	8W@24V	7.2W@24V	218	204		
8	OPT-ILI21820H	10.2W@24V	11.2W@24V				
9	OPT-ILI26820	9.8W@24V	8.9W@24V	268	254		
10	OPT-ILI26820H	12.4W@24V	13.6W@24V				
11	OPT-ILI31320	11.5W@24V	10.5W@24V	313	299		
12	OPT-ILI31320H	14.7W@24V	16.0W@24V				
13	OPT-ILI36220	13.4W@24V	12.1W@24V	362	348		
14	OPT-ILI36220H	14.9W@24V	18.5W@24V				

* Note: The data is for reference only.

Dimensions (mm)

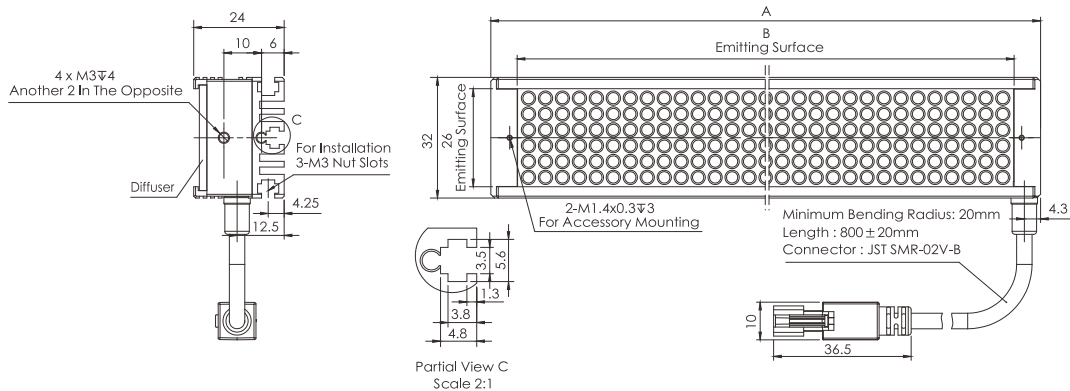


Model Table

No.	Model	* Power @ 850 nm	* Power @ 940 nm	Length A(mm)	Emitting B(mm)	Light source width(mm)	Recommended controller
1	OPT-ILI3832	1.8W@24V	1.7W@24V	38	24	32	OPT-DPA2024E
2	OPT-ILI3832H	2.2W@24V	2.4W@24V				
3	OPT-ILI6132	3.6W@24V	3.4W@24V	61	47		
4	OPT-ILI6132H	4.4W@24V	4.9W@24V				
5	OPT-ILI8332	5.5W@24V	5.0W@24V	83	69		
6	OPT-ILI8332H	6.6W@24V	7.3W@24V				
7	OPT-ILI11532	6.7W@24V	6.5W@24V	115	101		
8	OPT-ILI11532H	8.6W@24V	9.6W@24V				
9	OPT-ILI17332	6.5W@24V	6.6W@24V	173	159		
10	OPT-ILI17332H	10.1W@24V	9.9W@24V				
11	OPT-ILI21832	8.4W@24V	8.4W@24V	218	204		
12	OPT-ILI21832H	13W@24V	12.7W@24V				
13	OPT-ILI26832	10.2W@24V	10.3W@24V	268	254		
14	OPT-ILI26832H	13.6W@24V	15.5W@24V				
15	OPT-ILI31332	12W@24V	12.2W@24V	313	299		
16	OPT-ILI31332H	16W@24V	18.3W@24V				
17	OPT-ILI36232	13.9W@24V	14W@24V	362	348		
18	OPT-ILI36232H	18.5W@24V	21.2W@24V				

* Note: The data is for reference only.

Dimensions (mm)

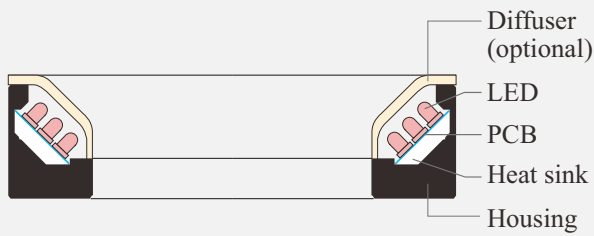


IRI IR Ring Lights

Selection Guide

OPT-IRI12030H
With H: Intensive illumination
Without H: Standard illumination
→ Illumination Angle
→ Outer diameter
→ IR Ring Lights
→ Brand name

Section Structure Drawing



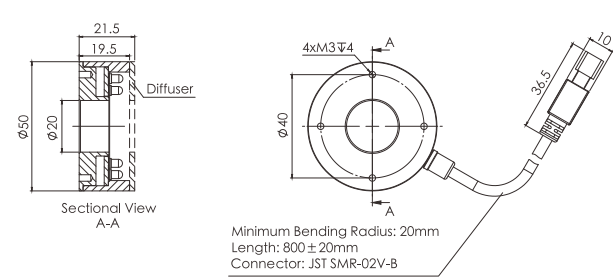
Model Table

No.	Model	* Power @ 850 nm	* Power @ 940 nm	Emitting angle	Recommended controller
1	OPT-IRI5000	2.8W@24V	2.5W@24V	0°	OPT-DPA2024E
2	OPT-IRI5000H	3W@24V	3.3W@24V		
3	OPT-IRI7000	5W@24V	4.1W@24V		
4	OPT-IRI7000H	5.3W@24V	5.5W@24V		
5	OPT-IRI9000	6.3W@24V	6.3W@24V		
6	OPT-IRI9000H	8.3W@24V	8.5W@24V		
7	OPT-IRI12000	9.2W@24V	8.5W@24V		
8	OPT-IRI12000H	9.4W@24V	12W@24V		

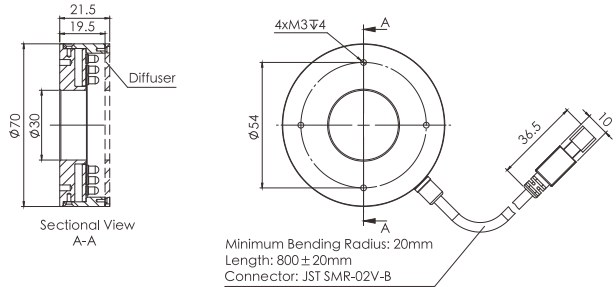
* Note: The data is for reference only.

Dimensions (mm)

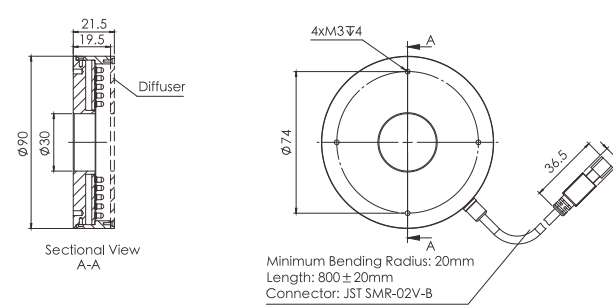
1. OPT-IRI5000
2. OPT-IRI5000H



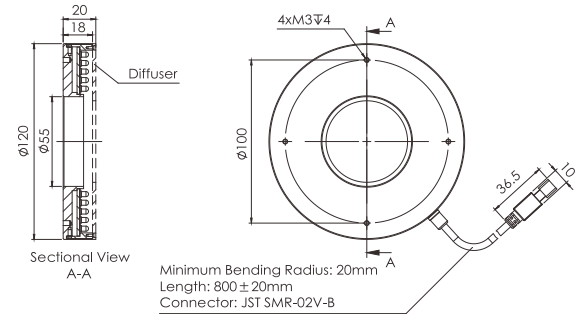
3. OPT-IRI7000
4. OPT-IRI7000H



5. OPT-IRI9000
6. OPT-IRI9000H



7. OPT-IRI12000
8. OPT-IRI12000H



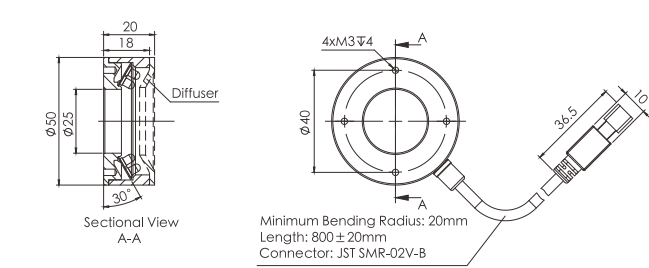
Model Table

No.	Model	* Power @ 850nm	* Power @ 940nm	Emitting angle	Recommended controller
1	OPT-IRI5030	2.8W@24V	2.5W@24V	30°	OPT-DPA2024E
2	OPT-IRI5030H	3W@24V	3.3W@24V		
3	OPT-IRI7030	5.1W@24V	4.1W@24V		
4	OPT-IRI7030H	5.3W@24V	5.5W@24V		
5	OPT-IRI9030	5.4W@24V	5.4W@24V		
6	OPT-IRI9030H	7.1W@24V	7.3W@24V		
7	OPT-IRI12030	11.5W@24V	9.9W@24V		
8	OPT-IRI12030H	12.7W@24V	14W@24V		

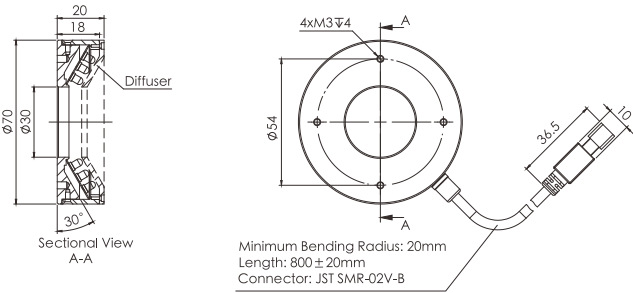
* Note: The data is for reference only.

Dimensions (mm)

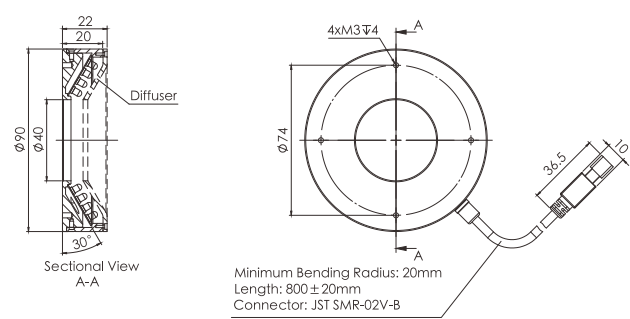
1. OPT-IRI5030
2. OPT-IRI5030H



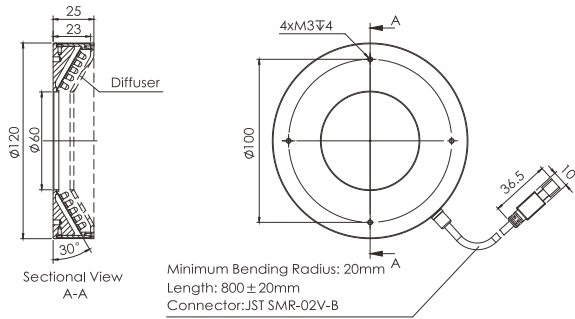
3. OPT-IRI7030
4. OPT-IRI7030H



5. OPT-IRI9030
6. OPT-IRI9030H



7. OPT-IRI12030
8. OPT-IRI12030H



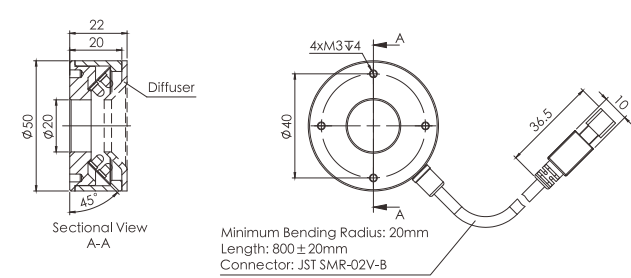
Model Table

No.	Model	* Power @ 850nm	* Power @ 940nm	Emitting angle	Recommended controller
1	OPT-IRI5045	2.8W@24V	2.5W@24V	45°	OPT-DPA2024E
2	OPT-IRI5045H	3W@24V	3.3W@24V		
3	OPT-IRI7045	5.1W@24V	4.1W@24V		
4	OPT-IRI7045H	5.3W@24V	5.5W@24V		
5	OPT-IRI9045	5.8W@24V	5.7W@24V		
6	OPT-IRI9045H	7.4W@24V	7.7W@24V		
7	OPT-IRI12045	10W@24V	8.5W@24V		
8	OPT-IRI12045H	11W@24V	12.1W@24V		

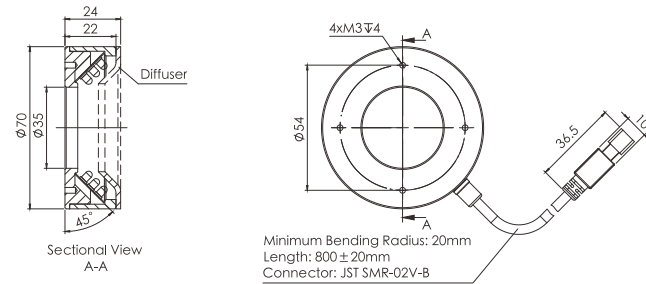
* Note: The data is for reference only.

Dimensions (mm)

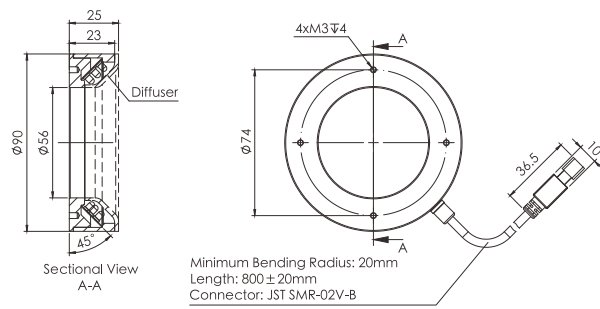
1. OPT-IRI5045
2. OPT-IRI5045H



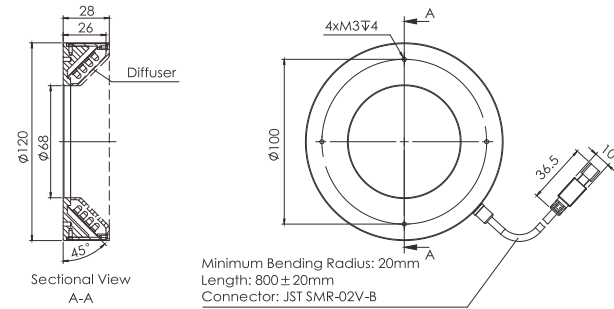
3. OPT-IRI7045
4. OPT-IRI7045H



5. OPT-IRI9045
6. OPT-IRI9045H



7. OPT-IRI12045
8. OPT-IRI12045H



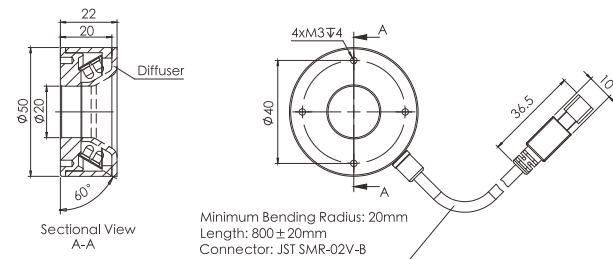
Model Table

No.	Model	* Power @ 850 nm	* Power @ 940 nm	Emitting angle	Recommended controller
1	OPT-IRI5060	2.8W@24V	2.5W@24V	60°	OPT-DPA2024E
2	OPT-IRI5060H	3W@24V	3.3W@24V		
3	OPT-IRI7060	5.1W@24V	4.1W@24V		
4	OPT-IRI7060H	5.3W@24V	5.5W@24V		
5	OPT-IRI9060	6.4W@24V	6.3W@24V		
6	OPT-IRI9060H	8.1W@24V	8.5W@24V		
7	OPT-IRI12060	10W@24V	8.5W@24V		
8	OPT-IRI12060H	11W@24V	12.1W@24V		

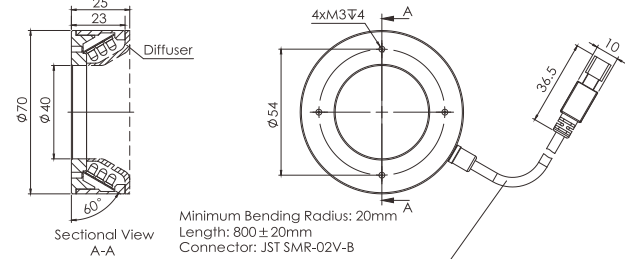
* Note: The data is for reference only.

Dimensions (mm)

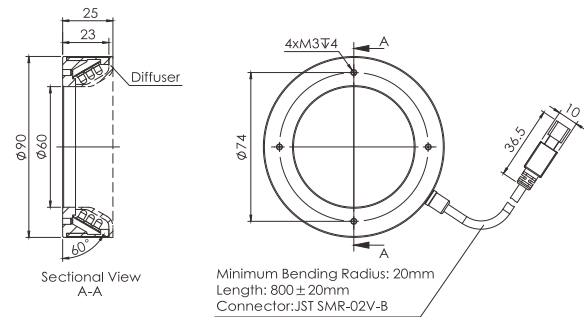
1. OPT-IRI5060
2. OPT-IRI5060H



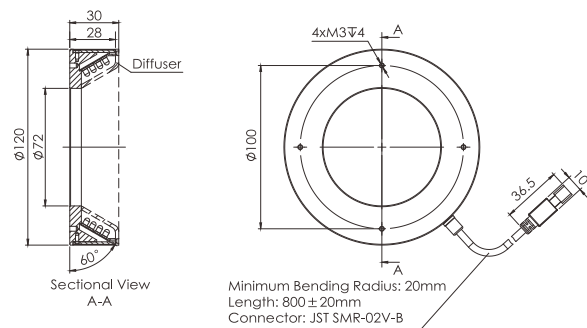
3. OPT-IRI7060
4. OPT-IRI7060H



5. OPT-IRI9060
6. OPT-IRI9060H



7. OPT-IRI12060
8. OPT-IRI12060H



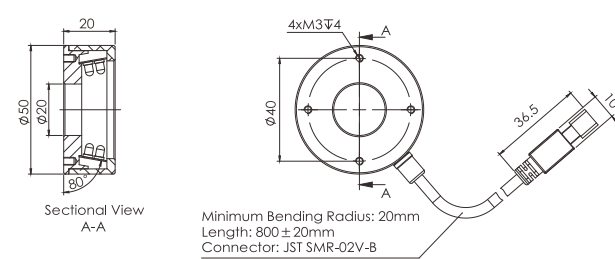
Model Table

No.	Model	* Power @ 850 nm	* Power @ 940 nm	Emitting angle	Recommended controller
1	OPT-IRI5080	2.8W@24V	2.5W@24V	80°	OPT-DPA2024E
2	OPT-IRI5080H	3W@24V	3.3W@24V		
3	OPT-IRI7080	5.1W@24V	4.1W@24V		
4	OPT-IRI7080H	5.3W@24V	5.5W@24V		
5	OPT-IRI9080	6.4W@24V	6.3W@24V		
6	OPT-IRI9080H	8.1W@24V	8.5W@24V		
7	OPT-IRI12080	7.8W@24V	6.6W@24V		
8	OPT-IRI12080H	8.6W@24V	9.5W@24V		

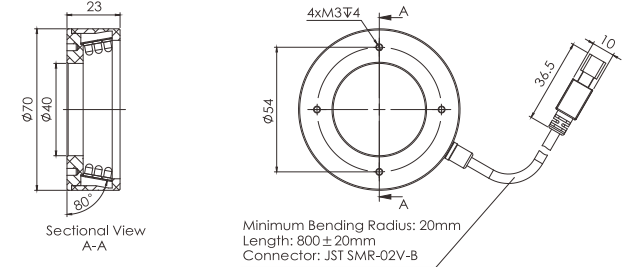
* Note: The data is for reference only.

Dimensions (mm)

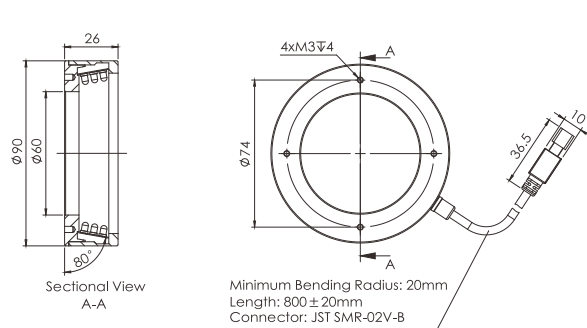
1. OPT-IRI5080
2. OPT-IRI5080H



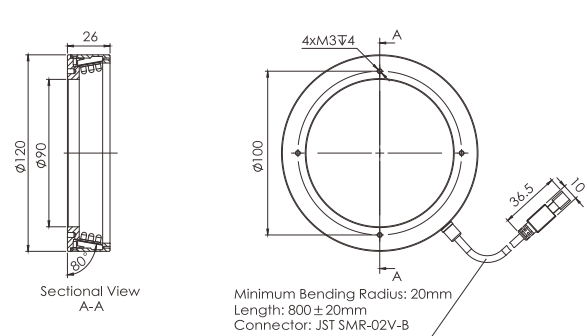
3. OPT-IRI7080
4. OPT-IRI7080H



5. OPT-IRI9080
6. OPT-IRI9080H



7. OPT-IRI12080
8. OPT-IRI12080H



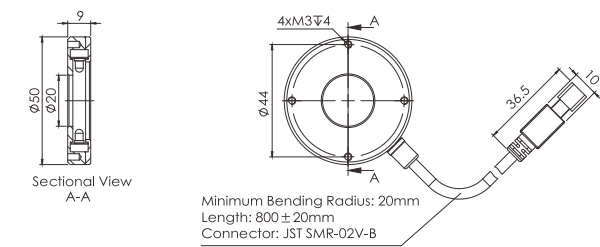
Model Table

No.	Model	* Power @ 850nm	* Power @ 940nm	Emitting angle	Recommended controller
1	OPT-IRI5090	1.1W@24V	1W@24V	90°	OPT-DPA2024E
2	OPT-IRI5090H	1W@24V	1W@24V		
3	OPT-IRI7090	2.2W@24V	2.1W@24V		
4	OPT-IRI7090H	1.8W@24V	2.3W@24V		
5	OPT-IRI9090	3.3W@24V	2.6W@24V		
6	OPT-IRI9090H	3W@24V	3.4W@24V		
7	OPT-IRI12090	5.3W@24V	4.3W@24V		
8	OPT-IRI12090H	5W@24V	5.5W@24V		

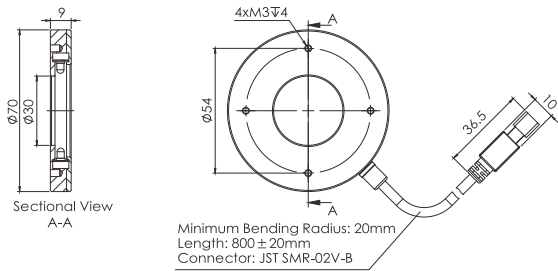
* Note: The data is for reference only.

Dimensions (mm)

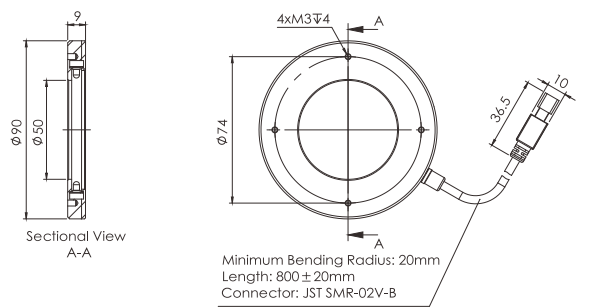
1. OPT-IRI5090
2. OPT-IRI5090H



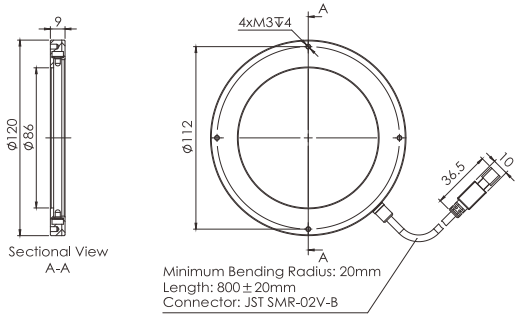
3. OPT-IRI7090
4. OPT-IRI7090H



5. OPT-IRI9090
6. OPT-IRI9090H



7. OPT-IRI12090
8. OPT-IRI12090H



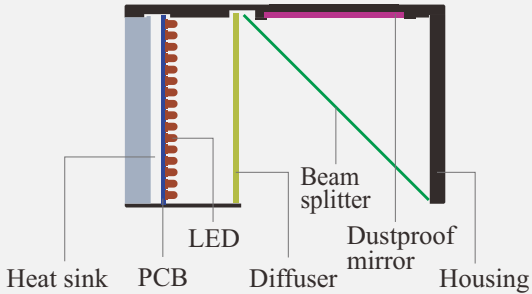
ICO Infrared Coaxial Light

Selection Guide

OPT - ICO 40 H

- With H: Intensive illumination
- Without H: Standard illumination
- Width
- Infrared coaxial light
- Brand name

Section Structure Drawing



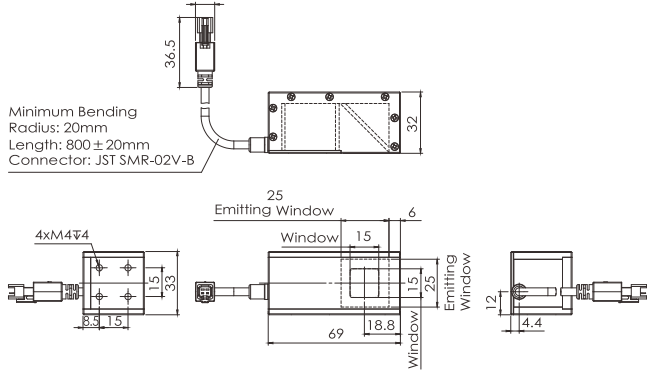
Model Table

No.	Model	* Power @ 850nm	* Power @ 940nm	Recommended controller
1	OPT-ICO30	1.9W@24V	1.9W@24V	OPT-DPA2024E
2	OPT-ICO30H	3.1W@24V	3.3W@24V	
3	OPT-ICO40	2.7W@24V	2.6W@24V	
4	OPT-ICO40H	4.1W@24V	4.3W@24V	
5	OPT-ICO50	4.8W@24V	4.6W@24V	
6	OPT-ICO50H	5.7W@24V	6.1W@24V	
7	OPT-ICO60	5.5W@24V	5.7W@24V	
8	OPT-ICO60H	6.7W@24V	7.2W@24V	
9	OPT-ICO70	7.9W@24V	8.2W@24V	
10	OPT-ICO70H	8.5W@24V	8.5W@24V	
11	OPT-ICO80	9.1W@24V	9.1W@24V	
12	OPT-ICO80H	10.8W@24V	10.8W@24V	
13	OPT-ICO100	13.1W@24V	13.2W@24V	
14	OPT-ICO100H	15.5W@24V	15.6W@24V	
15	OPT-ICO150	24W@24V	24W@24V	OPT-DPA6024
16	OPT-ICO150H	31.2W@24V	28.8W@24V	
17	OPT-ICO200	45.6W@1.9A	45.6W@1.9A	
18	OPT-ICO200H	52.8W@2.2A	52.8W@2.2A	

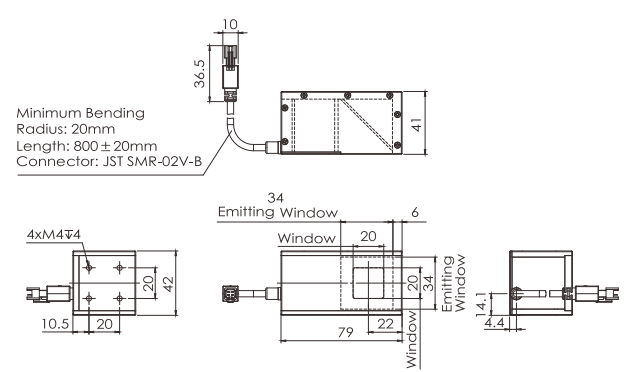
* Note: The data is for reference only.

Dimensions (mm)

1. OPT-ICO30
2. OPT-ICO30H

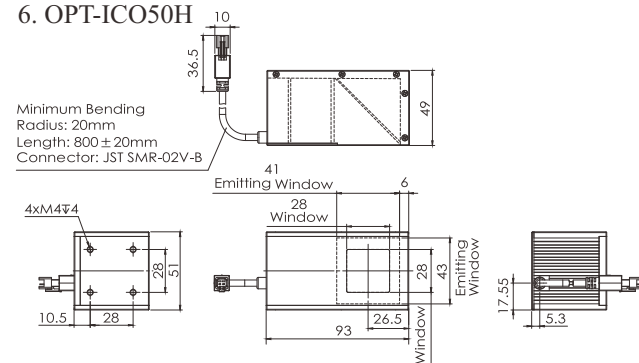


3. OPT-ICO40
4. OPT-ICO40H

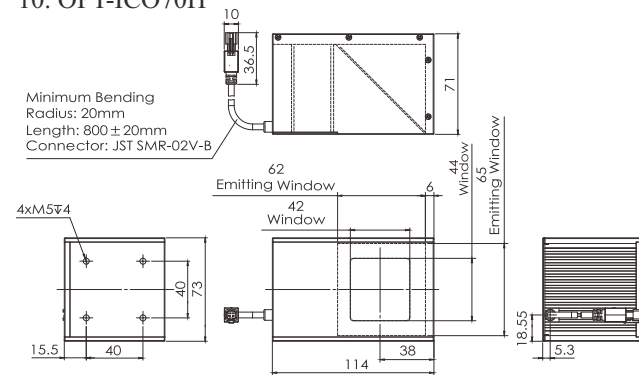


Dimensions (mm)

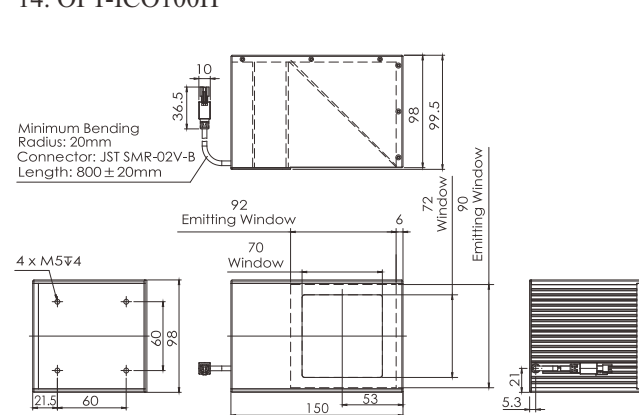
5. OPT-ICO50
6. OPT-ICO50H



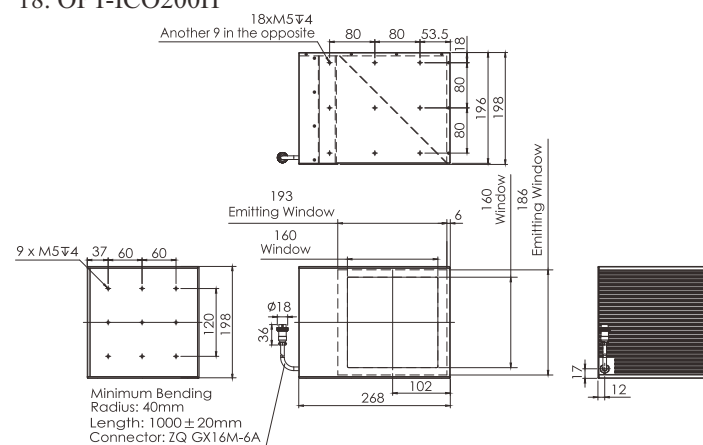
9. OPT-ICO70
10. OPT-ICO70H



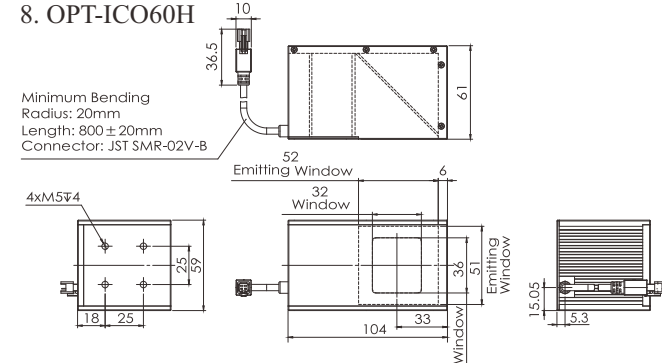
13. OPT-ICO100
14. OPT-ICO100H



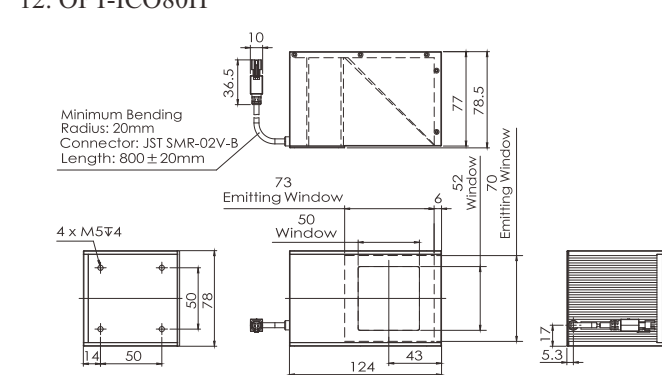
17. OPT-ICO200
18. OPT-ICO200H



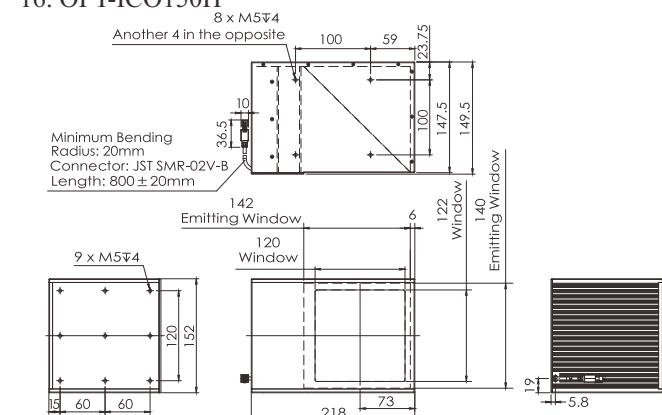
7. OPT-ICO60
8. OPT-ICO60H



11. OPT-ICO80
12. OPT-ICO80H



15. OPT-ICO150
16. OPT-ICO150H



IFLA Infrared Direct Backlight

Selection Guide

OPT - IFLA 90 90

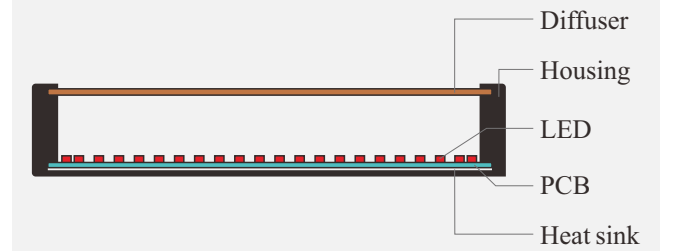
→ Width

→ Length

→ Infrared direct backlight

→ Brand name

Section Structure Drawing



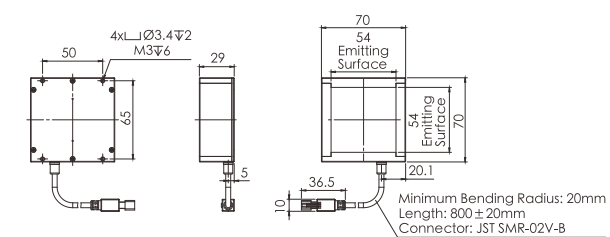
Model Table

No.	Model	* Power@ 850 nm	* Power@ 940 nm	Recommended controller
1	OPT-IFLA7070	7.2W@24V	7.0W@24V	OPT-DPA2024E
2	OPT-IFLA9090	9.4W@24V	8.2W@24V	
3	OPT-IFLA110110	12.5W@24V	11.3W@24V	
4	OPT-IFLA130130	16.3W@24V	14.4W@24V	
5	OPT-IFLA150150	19.7W@24V	18.5W@24V	
6	OPT-IFLA175175	26.2W@24V	24.2W@24V	
7	OPT-IFLA200200	33.4W@24V	32.6W@24V	
8	OPT-IFLA225225	40.3W@24V	40.8W@24V	
9	OPT-IFLA250250	41.3W@24V	42.7W@24V	

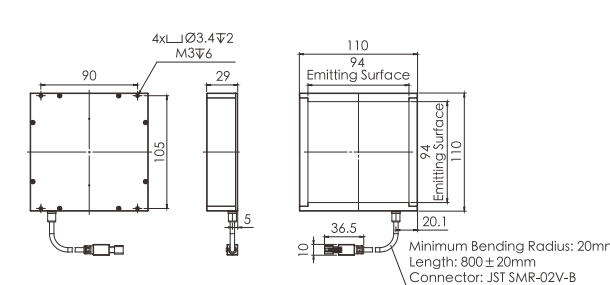
* Note: The data is for reference only.

Dimensions (mm)

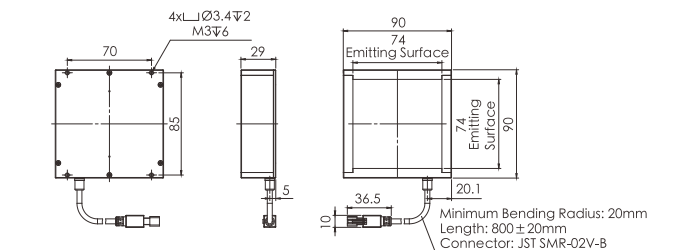
1. OPT-IFLA7070



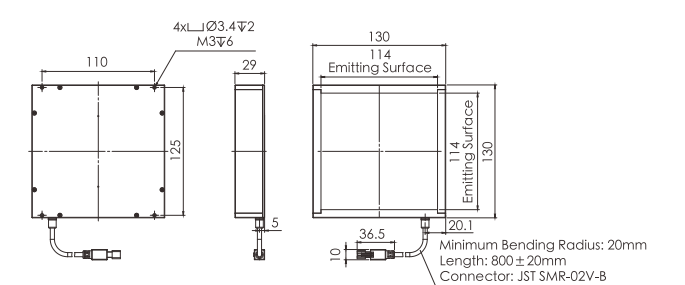
3. OPT-IFLA110110



2. OPT-IFLA9090

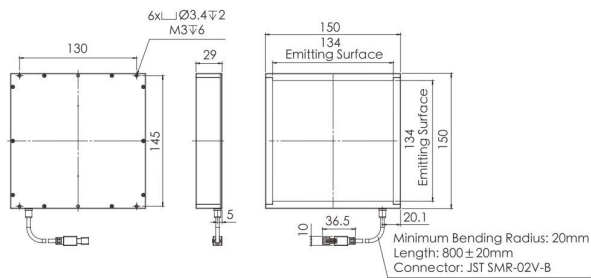


4. OPT-IFLA130130

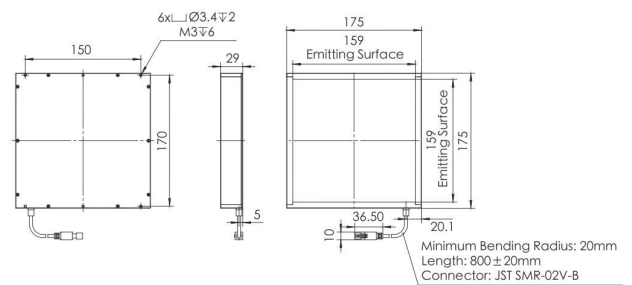


Dimensions (mm)

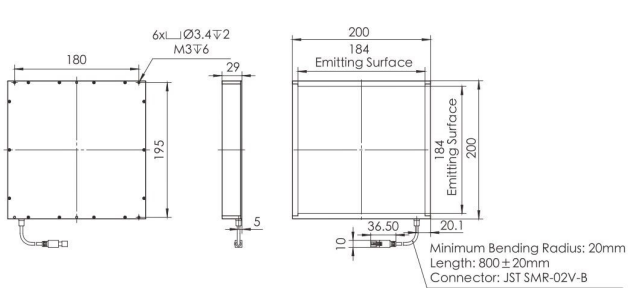
5. OPT-IFLA150150



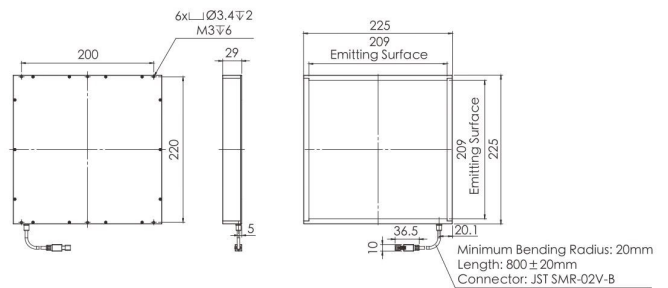
6. OPT-IFLA175175



7. OPT-IFLA200200



8. OPT-IFLA225225



9. OPT-IFLA250250

