

LAX-C100 Xenon Light Source 100W Technical Information

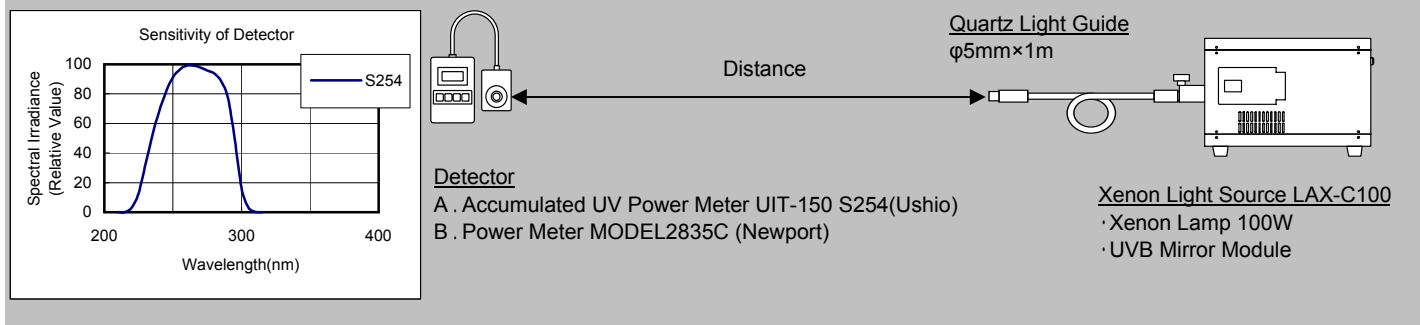


LAX-C100

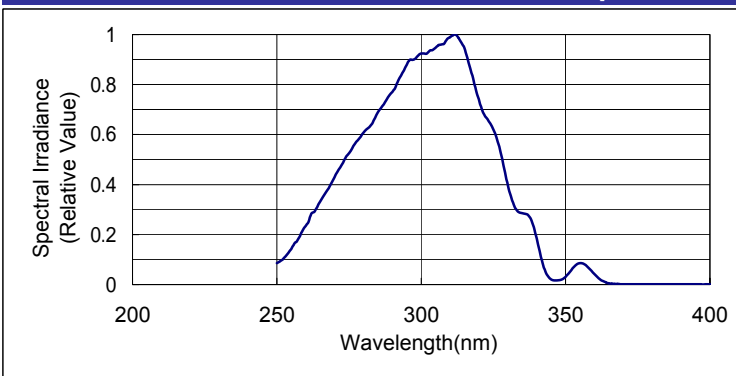
**UVB Mirror Module
(240 ~ 300nm)**

**Light Guide
(Quartz)**

Measuring Condition

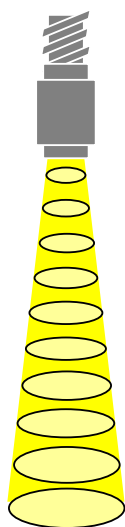


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and UVB Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



Distance	Detector Filter Illuminated area	Irradiance(mW/cm ²)		Irradiance(mW/cm ²)		
		A	B	Only UVB Mirror Module	XHQA254	XHQA290
10mm	φ11mm	223.4	---	---	---	---
20mm	φ15mm	105.80	1.83	6.57	10.02	
30mm	φ21mm	56.84	1.28	4.76	7.20	
40mm	φ27mm	34.25	0.91	3.38	5.13	
50mm	φ35mm	22.62	0.69	2.47	3.81	
60mm	φ40mm	15.93	0.53	1.90	2.93	
70mm	φ47mm	11.87	0.42	1.52	2.31	
80mm	φ52mm	9.04	0.34	1.23	1.86	
90mm	φ60mm	7.23	0.28	1.00	1.51	
100mm	φ65mm	5.94	0.23	0.84	1.26	

Reference for XHQA (Bandpass Filter)

http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

*Please regard the following data as a reference.

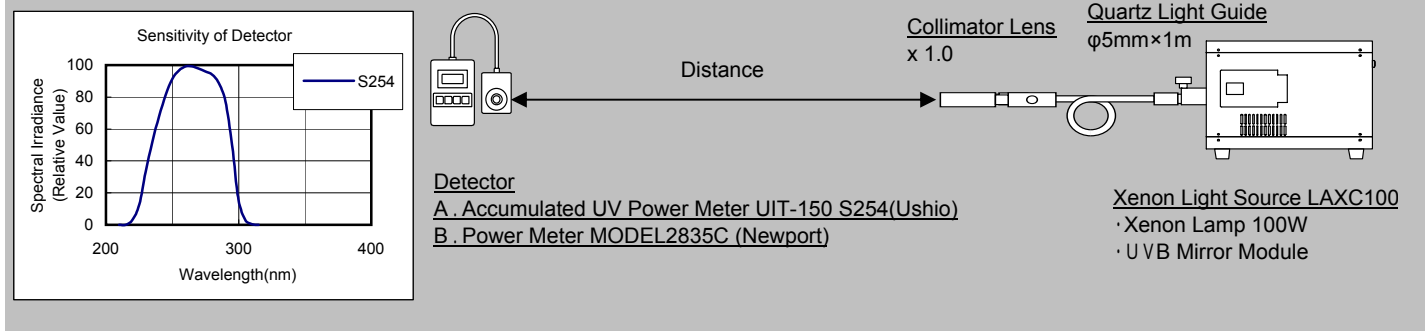
LAX-C100

**UVB Mirror Module
(240 ~ 300nm)**

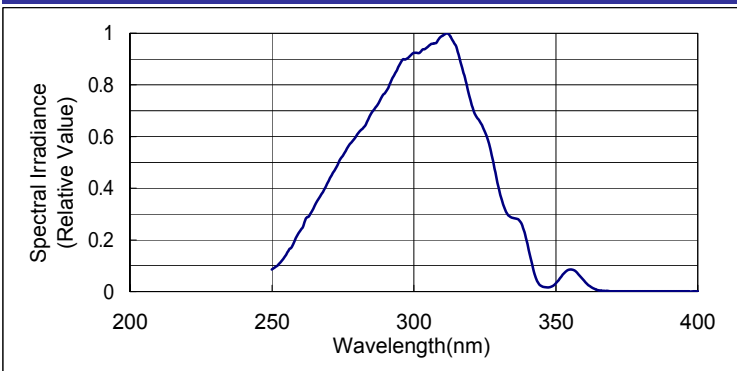
**Light Guide
(Quartz)**

**Collimator Lens
(x 1.0)**

Measuring Condition

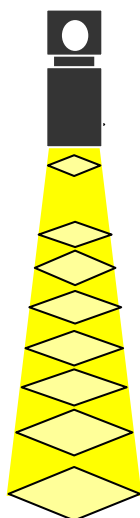


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and UVB Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



		Irradiance(mW/cm ²)		Irradiance(mW/cm ²)		
		A		B		
Detector		A		B		
Distance	Filter Illuminated area	Only UVB Mirror Module	XHQA254	XHQA290	XHQA310	
		80mm	20 x 20mm	11.83	0.51	1.75
100mm	23 x 23mm	8.03	0.36	1.21	1.84	
200mm	45 x 45mm	2.29	0.11	0.37	0.56	
300mm	65 x 65mm	1.07	0.05	0.18	0.26	
400mm	85 x 85mm	0.62	0.03	0.11	0.16	
500mm	106 x 106mm	0.4	0.02	0.07	0.10	
600mm	127 x 127mm	0.28	0.01	0.05	0.07	
1000mm	208 x 208mm	0.1	0.01	0.02	0.03	

Reference for XHQA (Bandpass Filter)

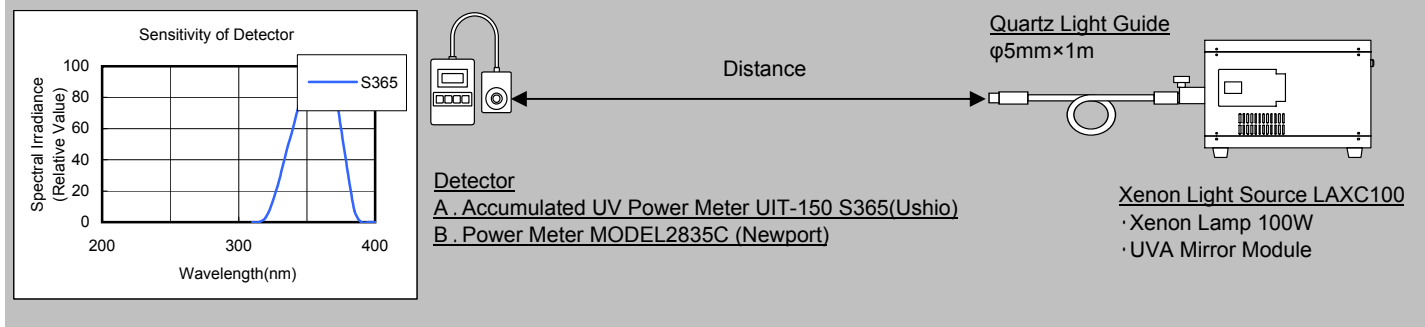
http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

LAX-C100

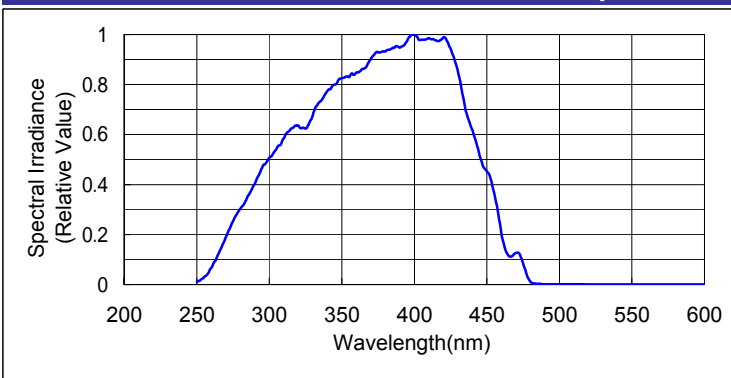
**UVA Mirror Module
(300 ~ 400nm)**

**Light Guide
(Quartz)**

Measuring Condition

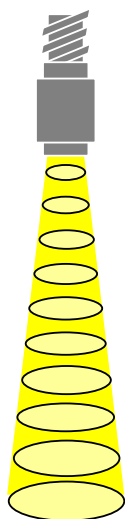


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and UVA Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



		Irradiance(mW/cm ²)		Irradiance(mW/cm ²)		
Detector		A		B		
Distance	Filter Illuminated area	Only UVA Mirror Module	XHQA254	XHQA290	XHQA310	
		10mm	φ11mm	516.00	-	-
20mm	φ15mm	264.80	8.07	15.68	22.04	
30mm	φ21mm	132.50	5.73	11.59	16.33	
40mm	φ27mm	78.01	4.07	8.59	12.13	
50mm	φ35mm	50.82	2.96	6.44	9.26	
60mm	φ40mm	36.78	2.28	5.00	7.32	
70mm	φ47mm	27.80	1.76	4.02	5.78	
80mm	φ52mm	21.16	1.43	3.20	4.66	
90mm	φ60mm	16.78	1.17	2.64	3.85	
100mm	φ65mm	13.57	0.97	2.20	3.22	

Reference for XHQA (Bandpass Filter)

http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

LAX-C100

**UVA Mirror Module
(300 ~ 400nm)**

**Light Guide
(Quartz)**

**Collimator Lens
(x 1.0)**

Measuring Condition

Detector
 A . Accumulated UV Power Meter UIT-150 S365(Ushio)
 B . Power Meter MODEL2835C (Newport)

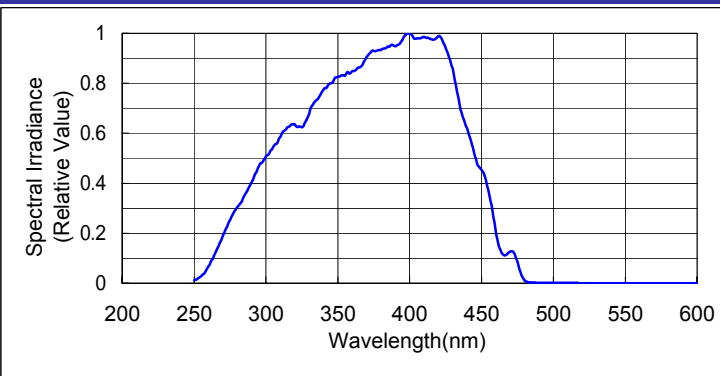
Collimator Lens
x 1.0

Quartz Light Guide
φ5mm×1m

Xenon Light Source LAX-C100
 · Xenon Lamp 100W
 · UVA Mirror Module

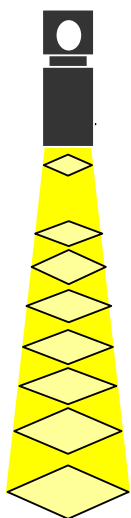
Distance

Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and UVA Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



		Irradiance(mW/cm ²)		Irradiance(mW/cm ²)		
Detector		A		B		
Distance	Filter Illuminated area	Only UVA Mirror Module				
		XHQA300	XHQA350	XHQA390		
80mm	20 x 20mm	24.71	2.13	3.90	5.45	
100mm	23 x 23mm	16.15	1.47	2.74	3.78	
200mm	45 x 45mm	4.56	0.45	0.83	1.14	
300mm	65 x 65mm	2.17	0.21	0.40	0.54	
400mm	85 x 85mm	1.22	0.13	0.23	0.31	
500mm	106 x 106mm	0.80	0.08	0.15	0.21	
600mm	127 x 127mm	0.55	0.06	0.11	0.14	
1000mm	208 x 208mm	0.03	0.02	0.04	0.05	

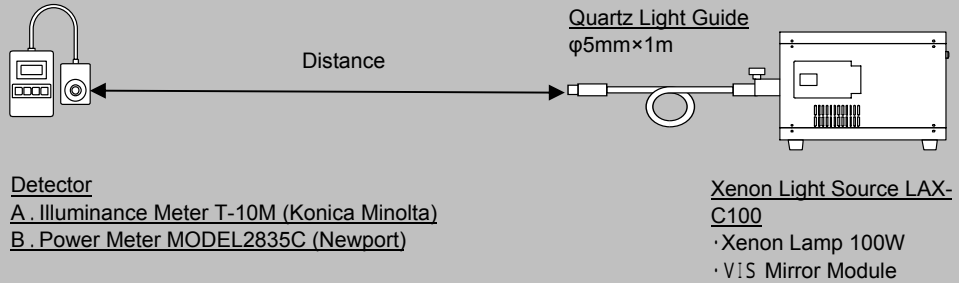
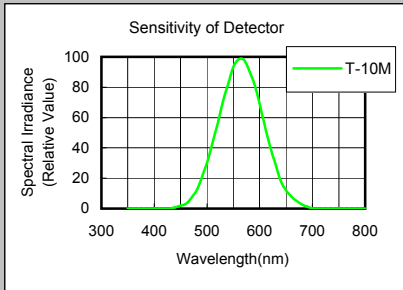
Reference for XHQA (Bandpass Filter)

http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

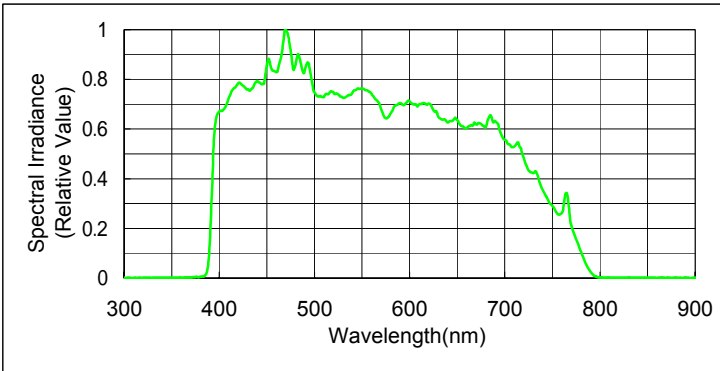
LAX-C100

VIS Mirror Module (400 ~ 700nm) Light Guide (Quartz)

Measuring Condition

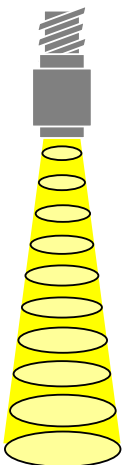


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and VIS Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



		Illuminance(Ix)		Irradiance(mW/cm ²)		
Detector		A		B		
Distance	Filter Illuminated area	Only VIS Mirror Module				
		XBPA400	XBPA550	XBPA700		
10mm	φ11mm	3,547,700	---	---	---	
20mm	φ15mm	2,611,200	17.57	22.72	17.41	
30mm	φ21mm	1,899,700	13.61	17.40	13.59	
40mm	φ27mm	1,376,100	10.14	13.14	10.34	
50mm	φ35mm	1,000,200	7.73	10.15	7.95	
60mm	φ40mm	789,100	5.95	7.99	6.28	
70mm	φ47mm	607,800	4.75	6.32	5.03	
80mm	φ52mm	485,300	3.83	5.11	4.09	
90mm	φ60mm	400,400	3.14	4.20	3.36	
100mm	φ65mm	331,600	2.59	3.51	2.80	

Reference for XBPA (Bandpass Filter)

http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

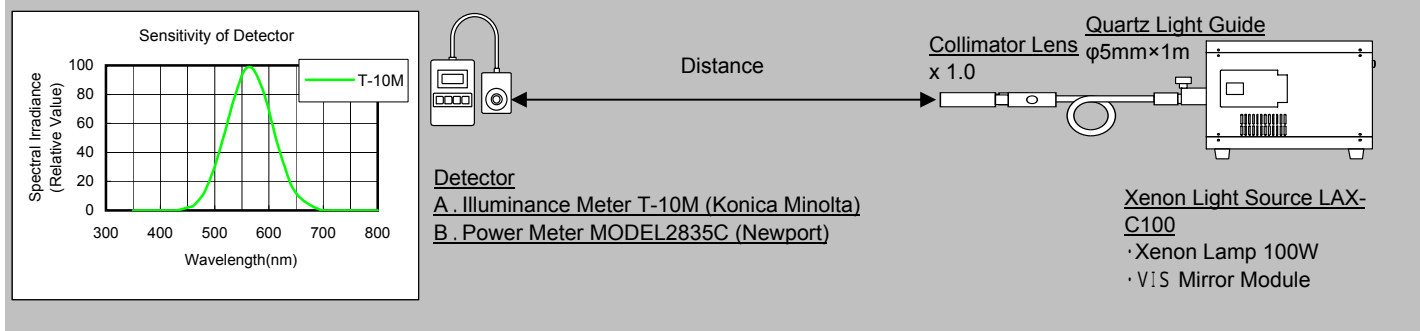
LAX-C100

**VIS Mirror Module
(400 ~ 700nm)**

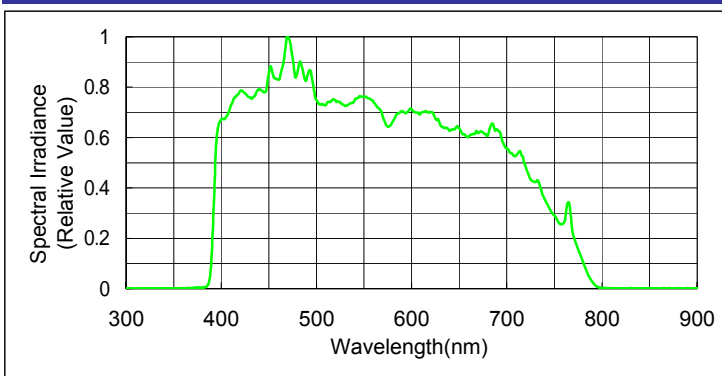
**Light Guide
(Quartz)**

**Collimator Lens
(x 1.0)**

Measuring Condition

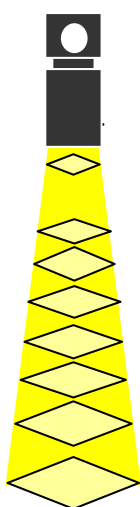


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and VIS Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



Distance	Illuminated area	Illuminance(Ix)		Irradiance(mW/cm ²)		
		Detector		Filter		
		A	B	Only VIS Mirror Module	XBPA400	XBPA550
80mm	20 x 20mm	503,800	4.25	5.26	4.20	
100mm	23.5 x 23.5mm	335,600	2.94	3.84	2.87	
200mm	45 x 45mm	98,200	0.88	1.13	0.86	
300mm	65 x 65mm	45,600	0.41	0.52	0.40	
400mm	85.5 x 85.5mm	26,300	0.23	0.30	0.24	
500mm	106.5 x 106.5mm	17,130	0.15	0.20	0.15	
600mm	127 x 127mm	12,110	0.11	0.14	0.11	
1000mm	208 x 208mm	4,540	0.04	0.05	0.04	

Reference for XBPA (Bandpass Filter)

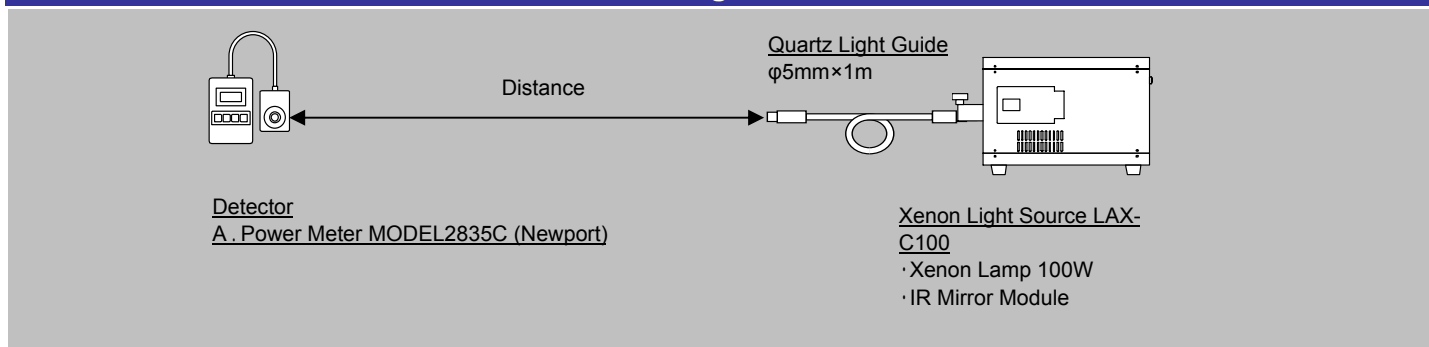
http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

LAX-C100

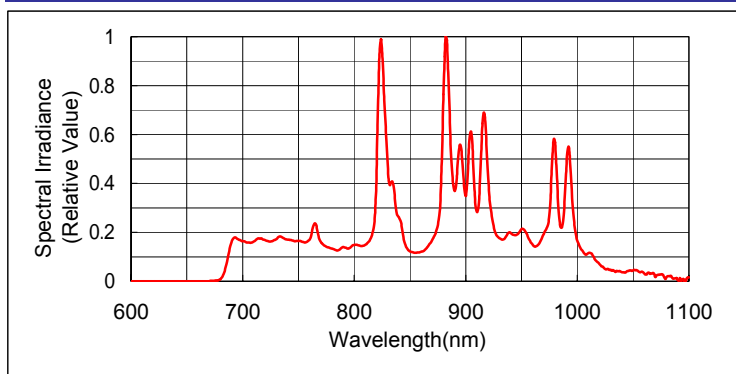
**IR Mirror Module
(700 ~ 1000nm)**

**Light Guide
(Quartz)**

Measuring Condition

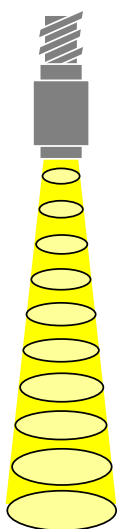


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and IR Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance



		Irradiance(mW/cm ²)	
Detector		A	
Distance	Filter Illuminated area	XBPA710	XBPA900
		10mm	φ11mm
20mm	φ15mm	23.43	88.97
30mm	φ21mm	18.29	70.09
40mm	φ27mm	13.90	52.35
50mm	φ35mm	10.72	39.63
60mm	φ40mm	8.42	30.95
70mm	φ47mm	6.74	24.44
80mm	φ52mm	5.41	19.88
90mm	φ60mm	4.48	16.40
100mm	φ65mm	3.75	13.60

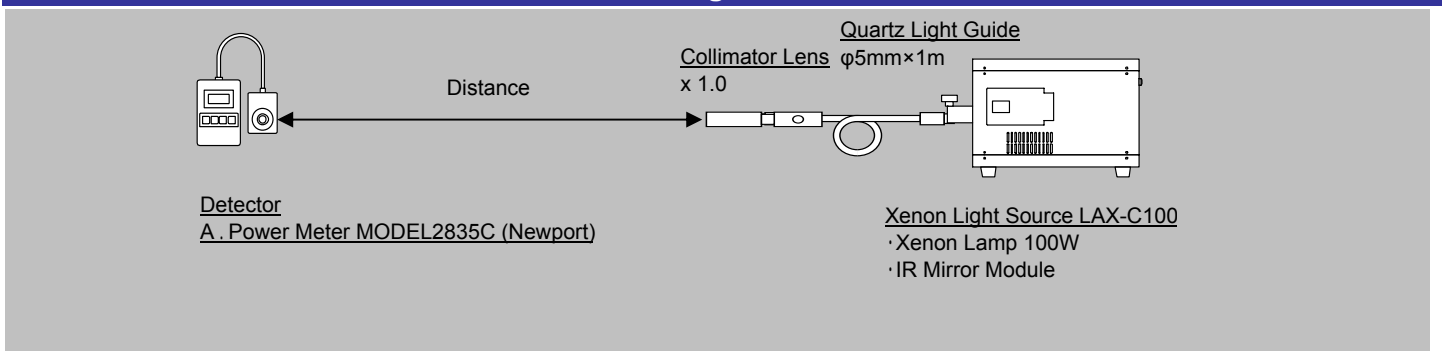
Reference for XBPA (Bandpass Filter)

http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

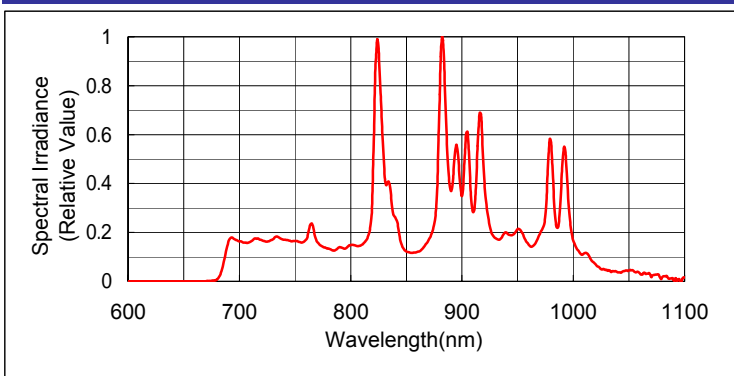
LAX-C100

IR Mirror Module (700 ~ 1000nm)	Light Guide (Quartz)	Collimator Lens (x 1.0)
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Measuring Condition

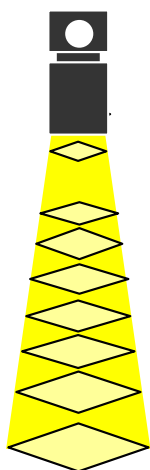


Spectral Distribution



This graph shows the spectral distribution of LAX-C100 with UV Lamp and IR Mirror Module, measured by Fiber Spectrometer.

Illuminated Area & Center Intensity at Different Distance

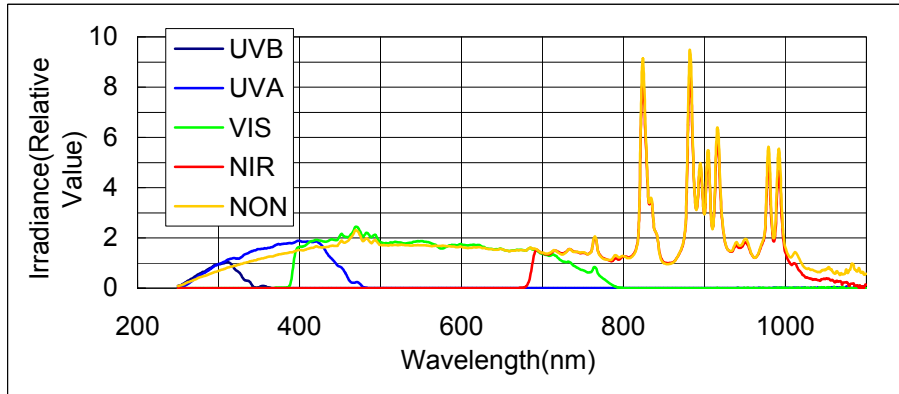


		Irradiance(mW/cm ²)	
Detector		A	
Distance	Filter Illuminated area	XBPA710	XBPA900
		80mm	20 x 20mm
100mm	23.5 x 23.5mm	3.95	15.87
200mm	45 x 45mm	1.17	4.67
300mm	65 x 65mm	0.60	2.19
400mm	85.5 x 85.5mm	0.32	1.27
500mm	106.5 x 106.5mm	0.20	0.79
600mm	127 x 127mm	0.15	0.58
1000mm	208 x 208mm	0.05	0.21

Reference for XBPA (Bandpass Filter)

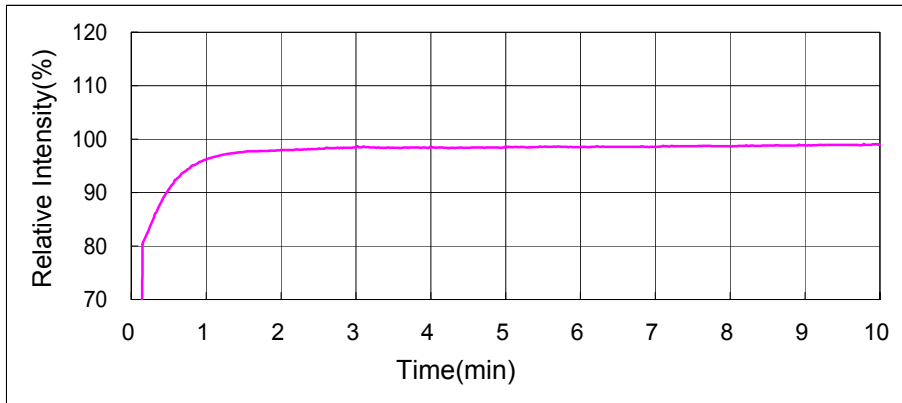
http://www.asahi-spectra.com/opticalfilters/bandpass_filter.html

Comparison of Spectrum

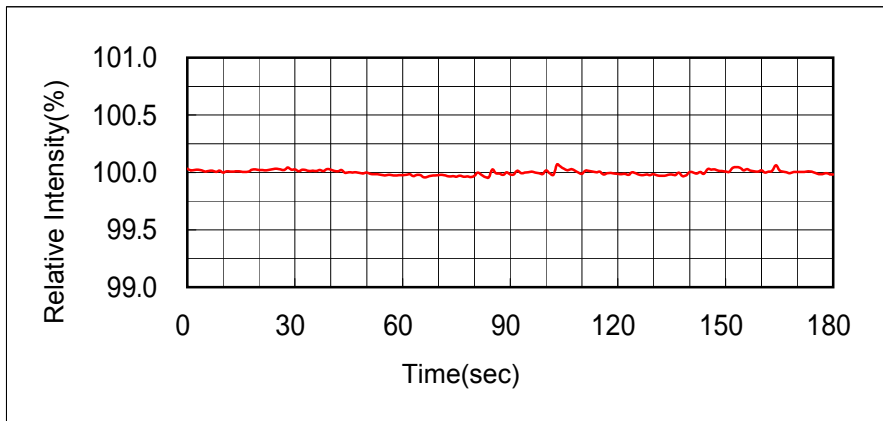


Note:
Irradiated Area: 400 x 400mm

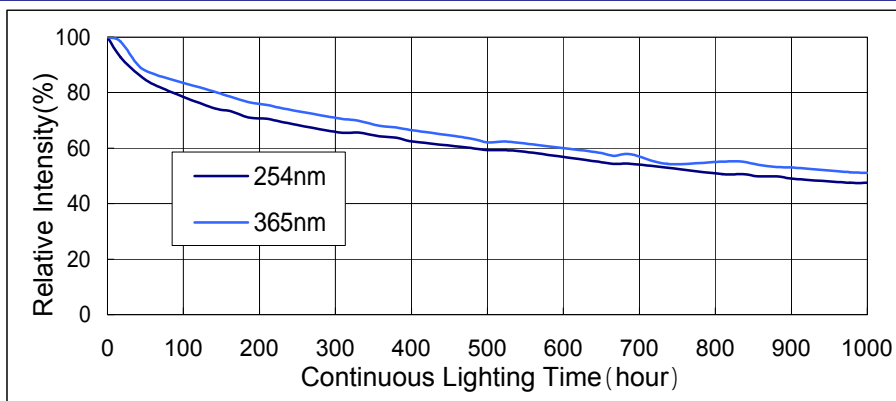
Lamp Start-Up Characteristics



Lamp Fluctuation



Lamp Life



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