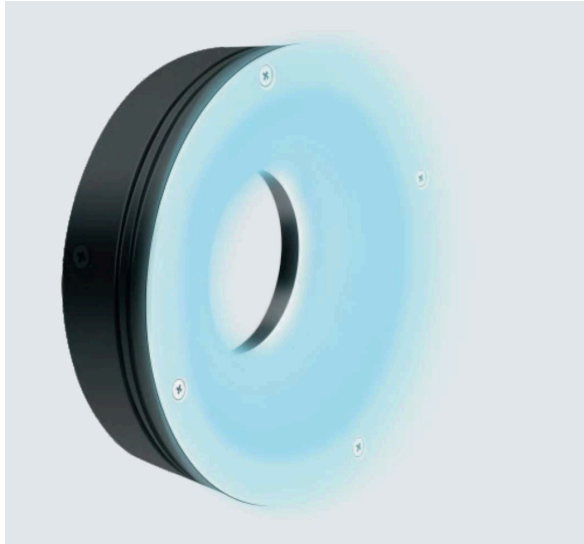


Ring light (HRL)

LS-HRL series · Ring lights · 49 models

Ring light built from high-brightness LEDs in a structurally optimised array; stable performance and easy installation. Lighting the object from different angles and with different colour combinations avoids shadows and brings out image features; it can also be used with a diffuser for more even, softer light.



Features

- Many models; illumination angle, LED rows, outer and inner diameter and mounting can be customised

Applications

- Character and appearance inspection of ICs and other semiconductor products; PCB and component inspection
- Packaging appearance and label inspection
- Broken or missing tablet inspection

Colours

R	620–630 nm
G	525 nm
B	470 nm
W	5000–8000 K

Common specifications

Recommended controllers	HAPC2424P / HAPC2460P / HMDPC2480 / HDPC2465D
Cable length (mm)	500
Mounting	M3 threaded holes (per drawing)
Operating environment	Ambient about 25 °C, operating temperature within 35 °C
Expected life	Red and white: 30000 h continuous, decays to 50% (typical one-year decay 8-15%); blue and green: 30000 h continuous, decays to 60% (typical one-year decay 10-18%)
Support	1 year of free standard technical support; can be customised to the inspected feature, working distance, illumination angle and field of view

Ordering code: H-RL-<outer dia. mm>-<emitting angle, deg between light and horizontal>-K-<colour/wavelength> (example H-RL-42-65-K-W; H = brand, RL = ring light, K = upgraded version)

Models

Model	LED rows	Inner diameter (mm)	Power, green/blue/white (W)	Power, red (W)	Outer diameter (mm, drawing)	Height (mm, drawing)
LS-HRL4265K colours: R, G, B, W	2	18	2.5	1.5	42	18
LS-HRL5260K colours: R, G, B, W	2	28	3.5	2.5	52	20
LS-HRL5390K colours: R, G, B, W	2	25	3.0	2.5	53	17
LS-HRL6030K colours: R, G, B, W	2	22	3.5	2.5	60	18
LS-HRL7430K colours: R, G, B, W	2	40	4.5	3.0	74	20
LS-HRL7460K colours: R, G, B, W	3	35	6.5	4.5	74	20
LS-HRL7390K colours: R, G, B, W	3	36	6.5	4.5	73	17.5
LS-HRL9030K colours: R, G, B, W	3	50	8.5	5.5	90	21
LS-HRL9070K colours: R, G, B, W	4	44	11.0	7.0	90	20
LS-HRL10090K colours: R, G, B, W	5	40	12.0	8.0	100	18
LS-HRL12030K colours: R, G, B, W	3	80	12.0	8.0	120	23
LS-HRL12070K colours: R, G, B, W	4	65	14.5	10.5	120	22
LS-HRL12090K colours: R, G, B, W	3	76	13.0	7.2	120	18

LS-HRL3275 colours: R, G, B, W	2	10	2.0	1.0	32	21
LS-HRL4090 colours: R, G, B, W	1	24	1.0	1.0	40	23
LS-HRL4860 colours: R, G, B, W	2	26	3.5	2.5	48	19.5
LS-HRL5030 colours: R, G, B, W	2	25	2.5	1.5	50	19.5
LS-HRL5045 colours: R, G, B, W	3	20	4.5	3.0	55	22
LS-HRL5060 colours: R, G, B, W	2	22.5	3.0	2.5	54	22.5
LS-HRL5090 colours: R, G, B, W	2	25	3.0	2.0	50	19
LS-HRL5480 colours: R, G, B, W	2	26	3.5	2.0	54	14
LS-HRL5460 colours: R, G, B, W	2	23.5	3.5	3.0	54	21
LS-HRL5590 colours: R, G, B, W	2	24	3.0	2.0	55	20
LS-HRL6000 colours: R, G, B, W	1	30	2.0	1.5	60	9
LS-HRL6060 colours: R, G, B, W	2	33.5	4.0	2.5	64	22.5
LS-HRL6090 colours: R, G, B, W	2	30	4.0	4.0	60	18
LS-HRL6675 colours: R, G, B, W	2	46	3.0	2.5	66	16
LS-HRL7030 colours: R, G, B, W	3	30	6.0	5.5	70	22
LS-HRL7090 colours: R, G, B, W	3	36	5.5	4.0	70	19.5
LS-HRL9045 colours: R, G, B, W	4	46	10.5	6.5	90	23
LS-HRL9600 colours: R, G, B, W	1	60	3.0	2.0	96	9
LS-HRL9090 colours: R, G, B, W	4	39	9.0	6.0	90	18

LS-HRL12045 colours: R, G, B, W	7	60	25.0	25.0	120	35
LS-HRL12050 colours: R, G, B, W	4	80	15.5	10.0	120	23
LS-HRL12060 colours: R, G, B, W	6	60	22.0	22.0	120	30.5
LS-HRL12080 colours: R, G, B, W	4	65	14.0	12.0	120	22
LS-HRL13320 colours: R, G, B, W	3	96	13.0	8.0	132	22
LS-HRL14045 colours: R, G, B, W	4	100	20.0	19.5	140	26
LS-HRL14600 colours: R, G, B, W	1	104	4.5	3.0	146	11
LS-HRL15000 colours: R, G, B, W	1	50	4.5	4.0	150	11
LS-HRL17200 colours: R, G, B, W	1	130	5.5	3.5	172	9
LS-HRL18030 colours: R, G, B, W	5	132	31.0	19.0	180	29
LS-HRL18060 colours: R, G, B, W	4	126	21.0	16.0	180	23
LS-HRL20820 colours: R, G, B, W	3	162	17.5	14.0	208	23
LS-HRL20860 colours: R, G, B, W	3	155	22.0	13.0	208	24
LS-HRL21300 colours: R, G, B, W	1	175	8.0	5.0	213	12
LS-HRL24020 colours: R, G, B, W	5	194	30.0	30.0	240	29
LS-HRL24030 colours: R, G, B, W	5	194	21.0	21.0	240	29
LS-HRL35030 colours: R, G, B, W	3	300	42.0	25.5	350	29

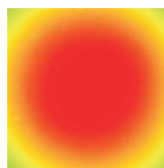
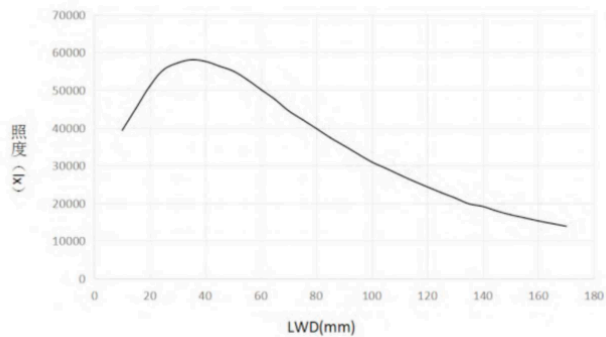
Dimensions

LS-HRL4265K 注: 可选配漫射板	LS-HRL5260K 注: 可选配漫射板	LS-HRL5390K 注: 可选配漫射板	LS-HRL6030K 注: 可选配漫射板
LS-HRL7430K 注: 可选配漫射板	LS-HRL7460K 注: 可选配漫射板	LS-HRL7390K 注: 可选配漫射板	LS-HRL9030K 注: 可选配漫射板
LS-HRL9070K 注: 可选配漫射板	LS-HRL10090K 注: 可选配漫射板	LS-HRL12030K 注: 可选配漫射板	LS-HRL12070K 注: 可选配漫射板
LS-HRL12090K 注: 可选配漫射板	LS-HRL3275 加漫射板	LS-HRL4090 加漫射板	LS-HRL4860 加漫射板
LS-HRL5030 加漫射板	LS-HRL5045 加漫射板	LS-HRL5060 加漫射板	LS-HRL5090 注: 可选配漫射板

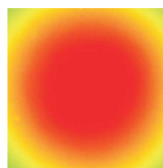
LS-HRL5480	LS-HRL5460	LS-HRL5590	LS-HRL6000
LS-HRL6060 加漫射板	LS-HRL6090	LS-HRL6675	LS-HRL7030 注：可选配漫射板/轴接环
LS-HRL7090 注：可选配漫射板	LS-HRL9045	LS-HRL9600	LS-HRL9090 注：可选配漫射板
LS-HRL12045	LS-HRL12050	LS-HRL12060	LS-HRL12080
LS-HRL13320	LS-HRL14045 注：可选配漫射板	LS-HRL14600	LS-HRL15000

LS-HRL17200	LS-HRL18030	LS-HRL18060	LS-HRL20820
LS-HRL20860	LS-HRL21300	LS-HRL24020	LS-HRL24030
LS-HRL35030			

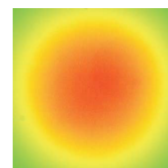
Performance



工作距离: 80mm



工作距离: 100mm



工作距离: 120mm