

SCHOTT SpectraGen™ 50 and 55 Light Sources

A family of high-quality internal halogen illuminators

The SpectraGen family of light sources from SCHOTT—including 50H, 50CH, 50CHR, 55H, 55CHR, and 55CHC—are versatile illuminators. Product benefits include:

- Robust construction featuring a 50W tungsten halogen lamp
- Fan-assisted cooling
- Ideal for decorative applications
- Remote switching options for fan and motor
- New SpectraGen 55 range offers higher light output using 16 mm or less bundle size harnesses
- Designed for dry locations
- ROHS conform. WEEE-Reg.-No. DE 14542729



SpectraGen 55CHR with remote switch input shown on the front of the unit

SpectraGen 50H and 55H models are white-light light sources. They can produce a single fixed color of light with the addition of a 45 x 45 mm fixed effect filter.

SpectraGen 50CH and 55CH models feature a motor drive. When used with an effect filter the color of light changes continuously, based on the pattern of the effect wheel. If desired, the effect wheel can be removed and a fixed effect filter may be used.

SpectraGen 50CHR and 55CHR models also feature a motor drive as well as a remote switch input that turns the lamp on and off via an isolated circuit—e.g., a push-button switch or a pressure mat. The unit's motor rotates continuously and independently of the remote control switch input.

SpectraGen 55CHC includes both a motor drive and a remote input switch that controls the motor. This feature can be used to stop an effect wheel at a specific color or light level, while maintaining color temperature.

ORDERING CODES

SpectraGen 50H & 55H

Light source for pure white light	50H	55H
European Lead, 230V, 50Hz	1067550	1089854
UK Lead, 230V, 50Hz	1067507	1089855

SpectraGen 50CH & 55CH

Light source for effect or color wheel, with motor	50CH	55CH
European Lead, 230V, 50Hz	1067551	1089856
UK Lead, 230V, 50Hz	1067508	1089857
USA Lead, 120V, 50-60Hz	1134490	

SpectraGen 50CHR & 55CHR

Light source for effect or color wheel, with motor and remote switch input for the lamp	50CHR	55CHR
European Lead, 230V, 50Hz	1067552	1089858
UK Lead, 230V, 50Hz	1067509	1089859

SpectraGen 55CHC

Light source for effect or color wheel, with motor and remote switch input for the motor	55CHC
European Lead, 230V, 50Hz	1089861
UK Lead, 230V, 50Hz	1089860

ACCESSORIES

Yellow filter	1009439
Red filter	1009436
Green filter	1014983
Orange filter	1039690
Blue filter	1009428
Remote switch	1039363

Replacement lamp for SpectraGen 50 12V 50W GE20867	563152352
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Replacement lamp for SpectraGen 55 12V 50W Philips 12999	15141428
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Effect wheels for SpectraGen 50 range only

5 segment color with blue/white twinkle effect wheel	1009350
5 segment color effect wheel	6005401
Clear effect wheel	1009352
Blue/white twinkle effect wheel	1014958
Black/white twinkle effect wheel	6004139
Multicolor twinkle effect wheel	1009353

Dichroic effect wheels for SpectraGen 55 range only

5 segment color with blue/white twinkle effect wheel	1009355
5 segment color effect wheel	1009354
Clear effect wheel	1009358
Blue/white twinkle effect wheel	1009357
Black/white twinkle effect wheel	1009356
Multicolor twinkle effect wheel	1009360
Dimming effect wheel	6016041

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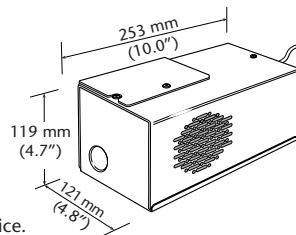
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Specifications

SpectraGen™ 50 and 55 light sources

	Units	50H	55H	50CH	50CH USA	55CH	50CHR	55CHR	55CHC
Power of lamp	W	50	55	50	50	55	50	55	55
Color temperature of lamp	K	3100							
Color rendering	Ra	100							
Lightflux through aperture 10/25 mm in recom. oper. distance (typical)	lm	140/500	270/540						
Service life of lamp (typical)	h	3000							
Lamp socket		GX 5.3	none	GX 5.3	GX 5.3	none	GX 5.3	none	none
Power supply		Internal wound transformer							
Supply voltage	V	220-240	220-240	220-240	110-120	220-240	220-240	220-240	220-240
Supply frequency	Hz	50	50	50	60	50	50	50	50
Power consumption	W	60W running (55CHR 7W lamp off, 55CHC 53W motor off)							
Fuse		2 off 20 x 5 mm T3.15 L 250V							
Thermal protection		Automatic reset							
Cooling		Axial fan 29.3db(A)							
Certification		CE (EN 60598-1)							
Operating temperature	°C (°F)	<+40 (<+104)							
Glass shield/shutter		Borosilicate glass shield							
Dimensions (W x H x D)	mm (in)	121 x 119 x 253 (4.8 x 4.7 x 10.0)							
Weight	kg (lbs)	1.25 (2.75)	1.25 (2.75)	1.3 (2.9)	1.3 (2.9)	1.3 (2.9)	1.3 (2.9)	1.3 (2.9)	1.3 (2.9)
Harness connector	mm	30 standard harness							
Environment		Dry locations only							
Filter holder size	mm (in)	45 x 45 x 4.5 (1.8 x 1.8 x .18)							
Effect wheel rotation		no	no	2.5 rpm	2.5 rpm	2.5 rpm	2.5 rpm	2.5 rpm	2.5 rpm
Effect wheel diameter	mm (in)	-	-	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Lamp remote control input socket		no	no	no	no	no	yes	yes	no
Motor remote control input socket		no	no	no	no	no	no	no	yes
<u>50CHR, 55CHR, and 55CHC versions only:</u>									
Remote plug type		¼ mono jack socket							
Remote input open		nominal 12V DC, max 17V DC circuit voltage							
Remote input short		50mA circuit current							

™SpectraGen is a trademark of SCHOTT AG.



Optional remote switch for on/off control of the light source lamp, available for SpectraGen 50CHR, 55CHR, and 55CHC.



For further information, please contact your local SCHOTT sales office.

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