

SPECTRA-PHYSICS Chroma® Series Entertainment Laser Beam Specifications

Output Characteristics	Chroma 5 Specifications ¹					Chroma 10 Specifications ¹				
	-WR-LD	-WR	-WR-BB	-RR	-BR	-WR-LD	-WR	-WR-BB	-RR	-BR
All-lines Output Power	3.0 W	3.5 W	4.0 W	1.5 W	7.0 W	7.0 W	8.0 W	9.0 W	3.0 W	15.0 W
Red (647.1–676.4 nm)	975 mW	1.15 W	1.30 W	N/A	N/A	2.10 W	2.40 W	2.70 W	N/A	N/A
Green (514.5–520.8 nm)	675 mW	800 mW	900 mW	N/A	N/A	1.55 W	1.75 W	2.00 W	N/A	N/A
Blue (476.2–488.0 nm)	600 mW	700 mW	800 mW	N/A	N/A	1.55 W	1.75 W	2.00 W	N/A	N/A
Deep Blue (457.9 nm)	60 mW	70 mW	80 mW	N/A	N/A	175 mW	200 mW	225 mW	N/A	N/A
Beam Diameter ²	2.0 mm	2.0 mm	2.4 mm	2.0 mm	2.0 mm	2.0 mm	2.0 mm	2.4 mm	2.0 mm	2.0 mm
Beam Divergence ³	1.1 mrad	1.4 mrad	1.7 mrad	1.3 mrad	1.1 mrad	1.1 mrad	1.4 mrad	1.7 mrad	1.3 mrad	1.1 mrad
Polarization	≥100:1 vertical					≥100:1 vertical				
Weight (uncrated) Laser Head Power Supply	43.0 kg (95 lbs) 32.0 kg (70 lbs)					54.5 kg (120 lbs) 79.5 kg (175 lbs)				
Weight (crated) Laser Head Power Supply	95.5 kg (210 lbs) 36.0 kg (79 lbs)					109 kg (240 lbs) 125 kg (275 lbs)				
Input Power Voltage Current (max.)	3-phase with ground 208 ± 10% Vac, 50/60 Hz, 45 A per phase @ 208 V					3-phase with ground 400 ± 10% Vac, 50/60 Hz, 59 A per phase @ 400 V				
Water Requirements Flow Rate Pressure Temperature	6.5 lpm (1.7 gpm) 138–689 kPa (20–100 psig) 10–35°C (50–95°F)					13.2 lpm (3.5 gpm) 138–689 kPa (20–100 psig) 10–35°C (50–95°F)				

1. Due to our continuous product improvement program, specifications may change without notice.
2. Specification at 1/e² points for 647.1 nm (except -BR, which is at 514.5 nm), measured at the output surface of the output coupler. For other wavelengths, assuming no change in optical configuration, the diameter is given by $dia_1/dia_2 = \sqrt{\lambda_1/\lambda_2}$.
3. Full angle specification for 647.1 nm (except for -BR, which is at 514.5 nm).

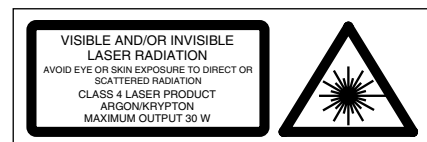


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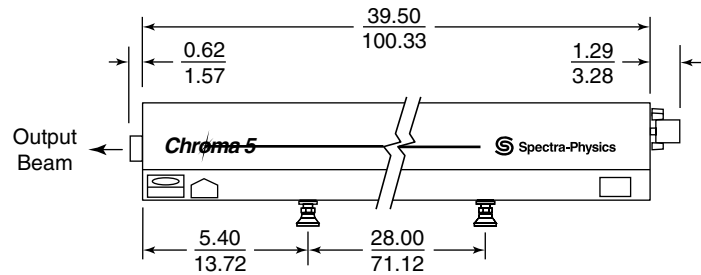
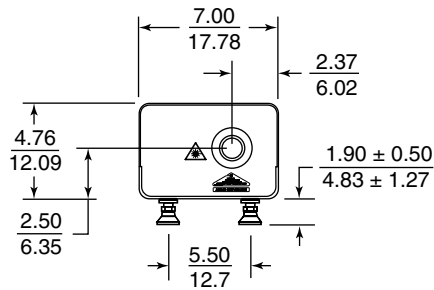
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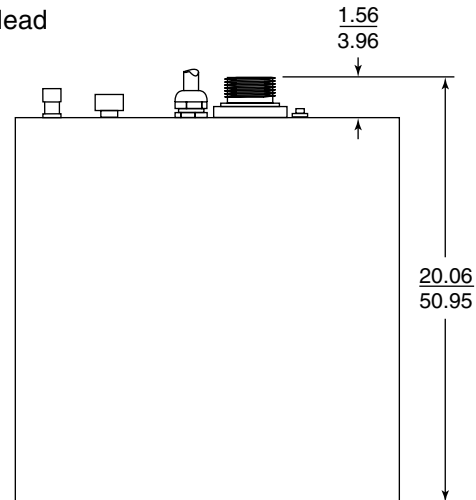
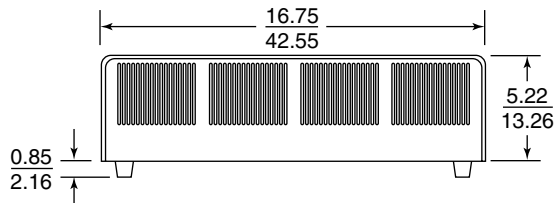
SPECTRA-PHYSICS Chroma® Entertainment Laser Cabinet Dimensions

Chroma 5

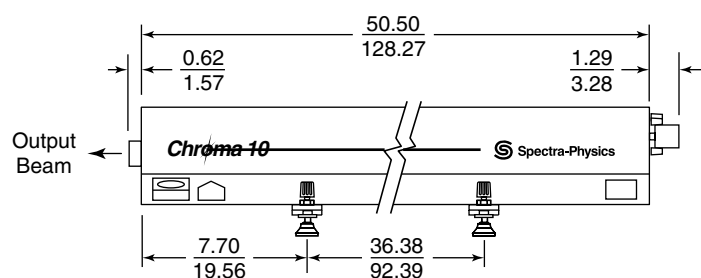
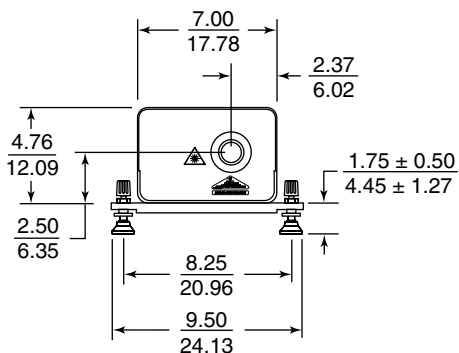


Chroma 5 Laser Head

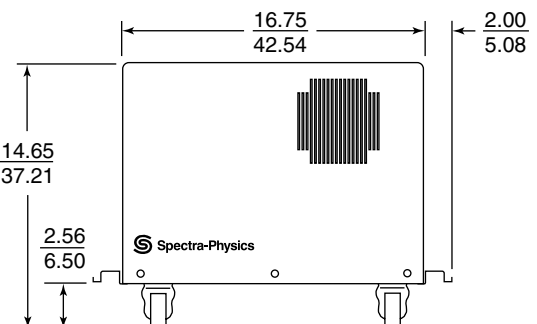
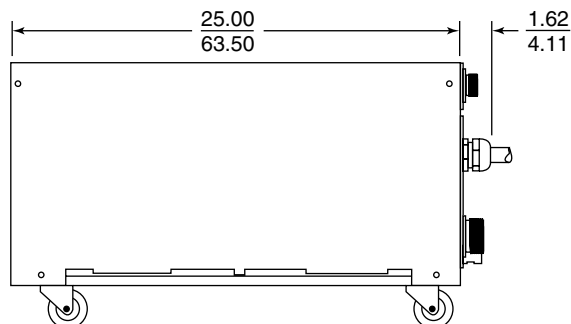
Model 2550 WR5 Power Supply



Chroma 10



Chroma 10 Laser Head



Model 2583 WR Power Supply