

TECHNICAL SPECIFICATIONS

Full Color Laser Projector PHAENON AT RRYGB 20W

Exclusively Based on Coherent® Genesis TAIPAN
Laser Sources



Front View

Laser					
Class		4			
Type		CW, analog modulated			
Beam diameter (1/e ²)		1.4mm			
Beam divergence (1/e ²) Full angle		< 1.5mrad			
Laser Source	Wave Length	Power spec.	Power max.	Power D65 white	Remark
2 x Red	639nm	Each with 2W	4 – 5W	4W	
Yellow	577nm	3W	3 – 4W	1.3W	Blue is limiting factor
Green	530nm	5W	5 – 7W	2.5W	Acceptable green surplus
Blue	460nm	2W	2 – 3.5W	2W	
Total output power		14W	19.5W	8.5W Calculated as RGB system	
Brightness		2100 lm			
Characteristic		Poorly balanced system lacking blue. Non-polarized			

Projector	
Scanner	CTI 6210 / 6800H with Turboscan driver
Aperture	3mm
Projection angle horizontal	80° maximum / 50° typical
Projection angle vertical	80° maximum / 50° typical
Response time (2° opt. step)	0.2ms
Laser emission window	B+W antireflective coated
Built-in Options	
Grating module	Two Effect wheels: 1. With grid grating 1 (Grid WT), ultra fine line grating (Machado), special grid (Stargate) 2. With grid grating 2 (Grid XT), line grating, Lumia
“compact Mark 2”	Laser show controller

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Rear View



Safety Features

Key switch, Interlock loop. Emission LED
Scan fail safety
Multiple control loops with shutdown at malfunction
External mechanical beam stop

Connections

AC power input	Air tight chassis connector PowerCon® 3-pole
Projector signal, analog	ILDA In, ILDA Out, D-sub 25
Remote control	7pin XLR (RS232, external key switch, Interlock)
DMX In/Out (optional)	5pin XLR Jack
LAN (optional)	8pin RJ45 Jack

Electrical

AC power input	100-120VAC / 200-240VAC / 50-60Hz auto ranging, switch mode
Input power	950W maximum

Thermal

Max. ambient temperature	50°C
Min. ambient temperature	-5°C
Protective housing	IP 54
Cooling	Forced air, low noise regulated fans

Physical

Size (L x W x H)	700 x 400 x 200mm
Height with yoke	approx. 330mm
Width with yoke	approx. 480mm
Weight	approx. 33kg (without yoke, without options)
Material	Aluminum anodized, black
Construction	Dust proof housing

Conformity

CE, CDRH compliant / variance

Technical specifications subject to change without prior notice!