

Spectrum 14 OPSL

PRODUCT SPECIFICATION SHEET



DESCRIPTION

Our good old Spectrum went through vast number of changes and improvements throughout the years of its existence.

The current 2020 version of Spectrum lasers is all that success-focused laser display professional needs for large scale outdoor shows, and for whom failure is not an option.

The Spectrum range (including LD Spectrum, Spectrum RGBY and LD Spectrum RGBY product lines) represents power, precision, robustness, cutting edge technology and top of the range features, which are often unique and make the Spectrums what they are! Bright, reliable, fast-scanning and a pleasure to work with. The whole Spectrum family is based on identical and field-tested construction, making it suitable for intense touring, permanent installs, and daily hire business.

Spectrum 14 OPSL was designed specifically for laser graphics projections and it's the more powerful system out of two pure OPSL machines we do. Nothing compares to the Spectrum OPSL when it comes to fine laser graphics displays. The combination of our know-how, craftsmanship and Coherent OPSL HD technology are what make this laser series unbeatable in many ways. These systems feature a true TEM00 beam profile which offers the best possible beam characteristics for laser graphics projections. Razor sharp beams and high speed Saturn1 scanning from Pangolin delivers superb performance which we reckon will impress even the most demanding users.

Highlights of the Spectrum:

- 0.34 mrad full angle divergence for
- 60 Kpps Saturn1 scanning as standard
- Colour Balance display mode
- robust construction
- optional Motorised Dichroic Filters for quick and easy beam alignment
- integrated Pangolin FB4 control interface as standard with Pangolin QuickShow 4.0 laser control and creation software included
- direct control from most lighting consoles over the ArtNet

Every KVANT laser system is delivered with a Quality Control Certificate. The certificate includes the power output measurement of each laser wavelength within the system.

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SPECIFICATIONS

Source Type:	OPSL full-colour RGB laser projector
Suitability:	indoor/outdoor HD laser graphics
System control:	FB4-SK [Ethernet, ArtNet, DMX, ILDA PC, Lighting Console or Autoplay]
Compliant with:	EN 60825-1 [tested by TÜV SÜD], FDA
Weight [kg]:	36
Size [WxHxD, mm]:	510 x 273 x 396
Guaranteed opt. output [mW]:	14000
R G B [mW]:	5000 5000 4000 [*see note A below]
Wavelengths [nm, ±5nm]:	639 OPSL 532 OPSL 480 OPSL
Beam size [mm]:	4
Beam divergence [mrad]:	0.34 [full angle, averaged value, *see note B below]
Modulation [kHz] type:	100 analogue
X-Y scanners:	Saturn1 60 Kpps @ 7°, max. 60°
Power requirements [V] Input:	100-230/50-60Hz Neutrik powerCON TRUE1
Max. power consumption [VA]:	1540
Operation temperature [°C]:	10-40
Included in the set:	Heavy-duty flight case, 1.5M power lead, 25M Ethernet rj45 signal cable, E-STOP remote with 30M 3-pin XLR cable, set of 4 safety keys, interlock connector [for the USA only], USB memory stick with the user manual. Pangolin QuickShow laser control and creation software is available for FREE download.
HW features:	All the basic system settings and adjustments such as power output adjustment for each colour, X & Y axes invert, X & Y size and position, etc. are managed via the built-in FB4 control interface. Scanning system overload protection.
Laser safety features:	Keyed interlock, emission delay, magnetic interlock, scan-fail safety, fast electromechanical shutter [reaction time <20ms], adjustable aperture masking plate, Emergency STOP system with keyed remote and manual RESTART button.
note A	Due to Advanced Optical Correction technology used in Kvant systems, the real power output of each laser module installed within the system may slightly differ from its specification. This doesn't affect the total guaranteed power output of the system.
note B	The beam divergence total is calculated as an average arithmetic value of all individual colours. The divergence of each colour is calculated as: 1. FWHM of the beam cross-section for round beams, or 2. The arithmetic average of the beam's horizontal and vertical divergence for all rectangular beams.