

# Clubmax 15 FB4

## PRODUCT SPECIFICATION SHEET

---



Over the years, thousands of Clubmax FB4 lasers found their customers all around the world. Clubmax FB4 systems have a great reputation and hold their price up well. What we offer today is the 3rd generation of our all-time bestseller that we crafted to perfection. Clubmax FB4 lasers are available in the range from 2 to 15W.

### SPECIFICATIONS

<b>Source   Type:</b>	Semiconductor laser diode   Full-colour RGB laser projector
<b>Suitability:</b>	Indoor/outdoor laser displays [atmospheric, abstract, text, animations]
<b>System control:</b>	FB4-SK [Ethernet, ArtNet, DMX, ILDA   PC, Lighting Console or Autoplay]
<b>Compliant with:</b>	EN 60825-1 [tested by TÜV SÜD], FDA
<b>Weight [kg]:</b>	16
<b>Size [WxHxD, mm]:</b>	339 x 168 x 389 [Technical Drawings are in SUPPORT section of this page]
<b>Guaranteed opt. output [mW]:</b>	14800
<b>R   G   B [mW]:</b>	5000   3800   6000 [*see note A below]
<b>Wavelengths [nm, ±5nm]:</b>	637   520   445
<b>Beam size [mm]:</b>	5 x 5
<b>Beam divergence [mrad]:</b>	<1 [full angle, averaged value, *see note B below]
<b>Modulation [kHz]   type:</b>	100   analogue
<b>X-Y scanners:</b>	ScannerMAX 506 Compact   40 Kpps @ 8° [more options in UPGRADES section of this page]
<b>Power requirements [V]   Input:</b>	100-230/50-60Hz   Neutrik powerCON TRUE1
<b>Max. power consumption [VA]:</b>	340
<b>Operation temperature [°C]:</b>	10-40
<b>Included in the set:</b>	Heavy-duty flight case, 1.5M power lead, 10M Ethernet rj45 signal cable, E-STOP remote with 10M 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.
<b>HW features:</b>	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. Optical bench integration slot.
<b>Laser safety features:</b>	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.
<b>note A</b>	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.
<b>note B</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.