

Clubmax 24 FB4 IP65

PRODUCT SPECIFICATION SHEET



To further improve the legendary Clubmax FB4 laser projectors' high-power range, we redesigned the housing and made it heavy-duty!

They are far more robust and **100% waterproof**, certified to **IP65** standards. They allow the productions to use them in rainy and wet environments without worry and hesitation, letting them focus on their job.

Fitted with KVANT Lasers' latest technology and smart features, they are undoubtedly the best projectors for laser professionals on the market.

Powerful. Robust. Versatile.

This model is factory fitted with Motorised Dichroic Filters for quick and easy beam alignment.

It is also available with the Saturn5 48kpps scanners.

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SPECIFICATIONS

Source IP-rating Type:	Semiconductor laser diode IP65 Full-colour RGB laser projector
Suitability:	Large-scale indoor and large outdoor laser displays [atmospheric, abstract, text, animations]
System control:	FB4-SK [Ethernet, ArtNet, DMX PC, Lighting Console or Autoplay]
Compliant with:	EN 60825-1 [tested by TÜV SÜD], FDA
Weight [kg]:	19.5
Size [WxHxD, mm]:	265 x 179 x 395
Guaranteed opt. output:	22 watts
Installed modules R G B [W]:	6 8 10 *note A
Wavelengths [nm, ±5nm]:	638 525 455
Beam size [mm]:	5 x 7
Beam divergence [mrad]:	1.1 [full angle, averaged value, *note B]
Analogue modulation [kHz]:	100
X-Y scanners:	Juno 5 30 kpps @ 8°, max. scanning angle 50° on both axes
Power requirements [V] Input:	100-240/50-60Hz Neutrik powerCON TRUE1
Max. power consumption [VA]:	1200
Operation temperature [°C]:	5-28 [-20 to +35 when installed in Monsoon protection enclosure with AC unit]
Included in the set:	Heavy-duty flight case, 1.5M AC power cable, 10M Ethernet rj45 signal cable, E-STOP Remote with 10M 3-pin XLR cable, Set of 4 safety keys, Interlock bypass dongle [supplied for the USA only], USB memory stick with the user manual, QC certificate. Pangolin QuickShow laser control and creation software is available for FREE download.
HW features:	Motorised Dichroic Filters. Inbuilt 3-way aperture masking plate. Device visual identifier. 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, 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.