Epic 120
PRODUCT SPECIFICATION SHEET

For all those epic shows and unforgettable moments - KVANT brings you the Epic!

KVANT Epic systems are our new laser projectors with super-charged power output. The two projectors in the range offer 70 and 120 Watts full-colour output with scanners capable of atmospheric, abstract and basic graphic effects. The Epic is designed for harsh outdoor environments, and its housing is built to IP65 standards - thoroughly waterproof and dustproof.

And because we understand that the internal colour alignment of RGB modules can be an issue when lasers are permanently installed far from reach, we fitted Epic models with Motorised Dichroic Filters as default, making that otherwise fiddly procedure an effortless task.

SPECIFICATIONS

Source | Type:	Semiconductor laser diode [FAC] | Full-colour laser projector
Suitability:	Outdoor laser displays [atmospheric, abstract, simple graphics]
System control:	FB4-SK [Ethernet, ArtNet, DMX, ILDA | PC, Lighting Console or Autoplay]
Compliant with:	EN 60825-1
Ingress Protection rating:	IP65 with the optional Rain Cover installed [certification in progress]
Weight [kg]:	89
Size [WxHxD, mm]:	500 x 315 x 876 [Technical Drawings are in the SUPPORT section of this page]
Guaranteed opt. output:	120 Watts
Red | Green | Blue [W]:	30 | 50 | 60 [*note]
Wavelengths [nm, ±5nm]:	637 | 525 | 455
Beam size [mm]:	10 x 12
Beam divergence [mrad]:	1 mrad [full angle, **note]
Modulation [kHz] | type:	100 | analogue
X-Y scanners:	Juno 5 | 20 Kpps @ 8°, max. scanning angle 40° on both axes
Power requirements [V] | Input:	100-240/50-60Hz | Neutrik powerCON TRUE1
Max. power consumption [VA]:	1800
Operation temperature [°C]:	10-35
Included in the set:	Plywood flight case, 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. Colour Balance display mode. Motorised Dichroic Filters for an easy colour alignment.
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	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	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.