

Atom 30

PRODUCT SPECIFICATION SHEET



The Atom series lasers always represented the bridge between lower output Clubmax systems and our flagship Spectrum projectors.

Atom units are structurally designed the same way as the new line of world-class Spectrums, using the same innovative **foam aluminium material for the chassis**, but with a few differences that allow for a more economical price tag.

The latest Atom is a fine-crafted semiconductor FAC-diode based full-colour laser display system that provides its user with powerful output, unified beams, crisp colours, and advanced control features and connections. The Atoms are offered in three versions, ranging from 20 to 42 Watts.

Our Atoms already showed their potential in power demanding applications while we manage to keep their sales price at a reasonable level.

SPECIFICATIONS

Source Type:	Semiconductor laser diode [FAC] Full-colour RGB laser projector
Suitability:	Outdoor laser displays [atmospheric, abstract, text, animations]
System control:	FB4-SK [Ethernet, ArtNet, DMX, ILDA PC, Lighting Console or Autoplay]
Compliant with:	EN 60825-1
Ingress Protection rating:	IP20, or IP54 with an optional rain cover installed [certification in progress]
Weight [kg]:	31
Size [WxHxD, mm]:	491 x 310 x 396 [Technical Drawings are in the SUPPORT section of this page]
Guaranteed opt. output:	30 Watts
R G B [W]:	7.5 10 13 [*note]
Wavelengths [nm, ±5nm]:	637 525 455
Beam size [mm]:	7 x 7
Beam divergence [mrad]:	1 mrad [full angle, **note]
Modulation [kHz] type:	100 analogue
X-Y scanners:	Juno 5 35 Kpps @ 8°, max. scanning angle 60° on both axes
Power requirements [V] Input:	100-240/50-60Hz Neutrik powerCON TRUE1
Max. power consumption [VA]:	1200
Operation temperature [°C]:	10-35, or -20 to 40 when installed in the Monsoon outdoor enclosure
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. Colour Balance display mode.
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.