

Berry Lite Cluster

PRODUCT SPECIFICATION SHEET



A pack made of six Berry Lite units offers **210.000 points-per-second** drawing capability at 8 degrees projection angle.

And being virtually a single unit makes the handling extremely easy and practical because **you don't have to worry about the misalignment between the projectors** once they are set up and moved afterwards.

Just imagine what you could do with 210.000 points per second; how complex the content could be with absolutely no flicker when projected.

The Berry Lite Cluster offers endless creative possibilities and easy control when designing challenging laser effects. Because it is intended to be operated mainly via Artnet or DMX, we see it ultimately as the **product of choice for lighting designers**.

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SPECIFICATIONS

Source | Type:

Semiconductor laser diode | Full-colour RGB laser projector with LED Blinder

Suitability:

Indoor and 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]:

23

Size [WxHxD, mm]:

approx. 520 x 350x 359

Guaranteed opt. output

33 watts [per 6-unit cluster]

Installed modules R | G | B [W]:

1.4 | 2 | 3 [each sub-unit | *note A]

Wavelengths [nm, ±5nm]:

638 | 525 | 445

Beam size [mm]:

5 x 7

Beam divergence [mrad]:

1.3 [full angle, averaged value, *note B]

Analogue modulation [kHz]

100

X-Y scanners:

ScannerMAX 506 Compact | 210 kpps @ 8°, max. 50° [per 6-unit cluster]

Power requirements [V] | Input:

100-240/50-60Hz | Neutrik powerCON TRUE1

Max. power consumption [VA]:

200 [each sub-unit]

Operation temperature [°C]:

5-35

Included in the set:

Heavy-duty flight case, 1.5M AC power cable, 5x 0.5M AC jumper cable, 10M Ethernet rj45 signal cable, 5x 0.5M Ethernet rj45 signal cable, E-STOP Remote with 10M 3-pin XLR cable, 5x 0.5M 3-pin XLR cable, Set of 4 safety keys,

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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:

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.

3W white LED blinder.

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.

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