Clubmax 40 FB4

PRODUCT SPECIFICATION SHEET

The latest generation Clubmax lasers are a radically simple solution for all kinds of venues and shows, from private clubs and cosy venues to large-scale outdoor shows.

Developed for challenging environments, its design is optimised for long maintenance intervals.

In addition, the automated colour balancing feature ensures accurate and consistent colours across all Clubmax projectors within the given setup.

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

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SPECIFICATIONS

Source | Type:

Semiconductor laser diode | Full-colour RGB laser projector

Suitability:

Large-scale 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 [tested by TÜV SÜD], FDA

Weight [kg]:

20

Size [WxHxD, mm]:

339 x 168 x 413

Guaranteed opt. output

36.7 watts

Installed modules R | G | B [W]:

8.5 | 11.5 | 20 *note A

Wavelengths [nm, ±5nm]:

638 | 525 | 455

Beam size [mm]:

7 x 7

Beam divergence [mrad]:

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

Analogue modulation [kHz]

100

X-Y scanners:

30 kpps @ 8°, max. scanning angle 50° on both axes [More options in the UPGRADES section of this page]

Power requirements [V] | Input:

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

Max. power consumption [VA]:

1200

Operation temperature [°C]:

5-28 [-20 to +40 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.
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.

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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