

# Clubmax 10 FB4

## PRODUCT SPECIFICATION SHEET

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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.

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### SPECIFICATIONS

|                                         |                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source   Type:</b>                   | Semiconductor laser diode   Full-colour RGB laser projector                                                                                                                                                                                                                                                                                      |
| <b>Suitability:</b>                     | Indoor and outdoor laser displays [atmospheric, abstract, text, animations]                                                                                                                                                                                                                                                                      |
| <b>System control:</b>                  | FB4-SK [Ethernet, ArtNet, DMX, ILDA   PC, Lighting Console or Autoplay]                                                                                                                                                                                                                                                                          |
| <b>Compliant with:</b>                  | EN 60825-1 [tested by TÜV SÜD], FDA                                                                                                                                                                                                                                                                                                              |
| <b>Weight [kg]:</b>                     | 13                                                                                                                                                                                                                                                                                                                                               |
| <b>Size [WxHxD, mm]:</b>                | 339 x 168 x 353                                                                                                                                                                                                                                                                                                                                  |
| <b>Guaranteed opt. output:</b>          | 10 watts                                                                                                                                                                                                                                                                                                                                         |
| <b>Installed modules R   G   B [W]:</b> | 2.7   3.5   4.5 *note A                                                                                                                                                                                                                                                                                                                          |
| <b>Wavelengths [nm, ±5nm]:</b>          | 637   525   445                                                                                                                                                                                                                                                                                                                                  |
| <b>Beam size [mm]:</b>                  | 5 x 4.5                                                                                                                                                                                                                                                                                                                                          |
| <b>Beam divergence [mrad]:</b>          | 0.9 [full angle, averaged value, *note B]                                                                                                                                                                                                                                                                                                        |
| <b>Analogue modulation [kHz]:</b>       | 100                                                                                                                                                                                                                                                                                                                                              |
| <b>X-Y scanners:</b>                    | ScannerMAX 506 Compact   40 kpps @ 8°, max. scanning angle 60° on both axes [More options in the UPGRADES section of this page]                                                                                                                                                                                                                  |
| <b>Power requirements [V]   Input:</b>  | 100-240/50-60Hz   Neutrik powerCON TRUE1                                                                                                                                                                                                                                                                                                         |
| <b>Max. power consumption [VA]:</b>     | 340                                                                                                                                                                                                                                                                                                                                              |
| <b>Operation temperature [°C]:</b>      | 5-35 [-20 to +35 when installed in Monsoon protection enclosure with AC unit]                                                                                                                                                                                                                                                                    |
| <b>Included in the set:</b>             | 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.<br>Pangolin QuickShow laser control and creation software is available for FREE download. |
| <b>HW features:</b>                     | 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.<br>Scanning system overload protection.<br>MicroWheel Grating integration slot.                                                              |
| <b>Laser safety features:</b>           | 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.                                                                                                               |
| <b>note A:</b>                          | 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.                                                                                     |
| <b>note B:</b>                          | The beam divergence total is calculated as an average arithmetic value of all individual colours. The divergence of each colour is calculated as:<br>1. FWHM of the beam cross-section for round beams, or<br>2. The arithmetic average of the beam's horizontal and vertical divergence for all rectangular beams.                              |