

TECHNICAL SPECIFICATIONS [CM-6800 FB4]

KVANT Clubmax 6800 FB4 – full colour, semiconductor diode laser system

Total Optical Power (guaranteed): 6.8W*

Maximum Output Power: 7.4W

**Due to Advanced Optical Correction technology used in our laser systems the optical power output of each laser colour within the system may slightly differ from the specification of respective laser module(s) installed. This does not affect the guaranteed total power output.*

NOHD (Nominal Ocular Hazard Distance for guaranteed power output): 580m

Beam diameter at laser aperture: 4.5 × 4.5mm

Beam divergence (half angle):

Red: 0.4/0.3 mrad

Green: 0.4/0.2 mrad

Blue: 0.4/0.2 mrad

Modulation: 0-5V analog, up to 100kHz

Module cooling: TEC

Scanning System:

ScannerMAX 506 Compact, 40kppts@8°, max. scanning angle 60° on both axes

Saturn 1, 90kppts@7°, max. scanning angle 60° on both axes (optional)

Colour	Wavelength	Power installed
Red	637nm	>2000mW
Green	520nm	>1800mW
Blue	445nm	>3000mW
Total		>6800mW

Control signal: Ethernet, DMX/ArtNet, ILDA, SD card (via inbuilt FB4 control interface)

Power requirements: 100-230V/50 - 60Hz / Neutrik powerCON TRUE1

Consumption: 340VA/100-230V

Operation temperature: 10-40°C

Ingress protection rating: IP20

Dimensions (WxDxH): 339 × 353 × 168mm

Weight: 11.6kg

Laser safety features: Keyed interlock, emission delay, magnetic interlock, scan-fail safety, fast electromechanical shutter | reaction time <20ms, adjustable aperture masking plate. This laser system fully complies with the latest EN 60825-1:2014, FDA regulations and TUV Laser Safety.