BeamBrush 10

PRODUCT SPECIFICATION SHEET

The BeamBrush projector is a professional full-colour RGB laser display system that, apart from all conventional laser effects, **can also change the size of the projected beam in real-time**. This unique feature makes it capable of projecting laser graphics, animations and abstracts at a whole new level.
Furthermore, this enables replicating **the effects of moving heads and wash lights** - making the BeamBrush laser projector suitable and effective for a much larger variety of lighting applications and with an unlimited number of gobos, as those can be programmed in the software.
Finally, the ability to change the size of the projected beam (which also changes the beam's intensity) offers a sophisticated tool for much more efficient measures when it comes to laser safety for audience scanning shows.

The BeamBrush is available in 7-Watt, 10-Watt, and 40-Watt versions. In addition, it comes with all the advanced features of our other KVANT projectors and is compatible with all the standard accessories.

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SPECIFICATIONS

Source | Type:	Semiconductor laser diode | Full-colour RGB laser projector
Suitability:	Laser graphics displays | Indoor aerial beam shows | Audience scanning shows [the variable beam size may help to fulfil safety criteria]
System control:	Pangolin FB4 - Ethernet, ArtNet, DMX, ILDA | PC, Lighting Console, Autoplay
Compliant with:	EN 60825-1, FDA, TUV Laser Safety
Ingress Protection Rating:	IP20
Weight [kg]:	13
Size [WxHxD, mm]:	339 x 168 x 382 [Technical Drawings are in SUPPORT section of this page]
Guaranteed opt. output:	9.15 Watts
R | G | B [W]:	2.2 | 3.5 | 4.5 *note
Wavelengths [nm, ±5nm]:	637 | 525 | 445
Beam size [mm]:	5 x 5
Beam divergence [mrad]:	<0.8 mrad **note | applies when BeamBrush is not active
Modulation [kHz] | type:	100 | analogue
X-Y scanners:	ScannerMAX 506 Compact, 40 Kpps@8°, max. scanning angle 60° on both axes [more options in UPGRADES section of this page]
Power requirements [V] | Input:	100-230 | 50-60Hz | Neutrik powerCON TRUE1
Max. power consumption [VA]:	340
Operation temperature [°C]:	10-40
Included in the set:	Flight-case, Mains power cable, 20M Ethernet and 25M Emergency STOP cables, E-STOP Remote, Set of four Safety keys, Remote Interlock Bypass [for USA only], USB with User Manual, QC Certificate. Pangolin The QuickShow laser control and creation software is available FREE for 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.
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.