

Martin RGB Laser 1.6 CLASS 4 Specifications

PHYSICAL

Length: 290 mm (11.4 in.)
Width: 204 mm (8.0 in.)
Height: 178 mm (7.0 in.)
Length including mounting yoke:
326 mm (12.8 in.)
Height including mounting yoke:
260 mm (10.2 in.)
Weight: 11.2 kg (24.7 lbs.)

CONTROL AND PROGRAMMING

Control options: DMX, ILDA, PC software (supplied), standalone autostart mode
Resolution x and y: 12-bit
Resolution RGB intensity: 8-bit
DMX channels: 4, 8, 12 or 16
Demo sequence: Storage for 256 cues, can be edited/overwritten
Stand-alone memory: 128 MB, 432 linkable/loopable cues
DMX address setting: Onboard control panel with backlit LCD display
Stand-alone programming: PC software
Protocol: USITT DMX512-A

LASER

Class: 4
Type: Diode laser, cw emission
P-lambda 440 nm - 660 nm: Max. 2000 mW cw
White light output: 1.3 W
Maximum output: 1.6 W
Beam divergence: 0.8 mrad
Red wavelength: 650 nm +/- 5 nm
Green wavelength: 532.5 nm +/- 0.5 nm
Blue wavelength: 446 nm +/- 3 nm

PROJECTOR

Horizontal projection angle: 80°
Vertical projection angle: 80°
SASRT (step response time): 0.3 ms

CONSTRUCTION

Housing: Aluminum
Finish: Black
Protection rating: IP 52

INSTALLATION

Orientation: Any
Minimum distance to persons and objects in beam zone: 2 m (6.6 ft.)
Minimum height above publicly accessible floor: 3 m (9.8 ft.)
Minimum distance to combustible materials: 1 m (3.3 ft.)
Minimum distance to illuminated surfaces: 2 m (6.6 ft.)
Minimum clearance around device: 30 cm (11.8 in.)
Relative humidity limits: 0% - 90% non-condensing

CONNECTIONS

AC power input: 3-pin IEC male socket, cable supplied
Analog (ILDA) in/out: 25-pin sub-D
DMX data in/out: 5-pin locking XLR
Programming and uploads: USB 2.0 (6-pin XLR chassis connector)

ELECTRICAL

AC power: 100-240 V nominal, 50/60 Hz
Power supply unit: Auto-ranging electronic switch-mode
Main fuse: 2.5 AT (slow blow)

THERMAL

Maximum ambient temperature (Ta max.): 40° C (104° F)
Minimum ambient temperature (Ta min.): 5° C (41° F) non-condensing

Recommended storage temperature: 20° C (68° F) to 25° C (77° F)

Cooling: Forced air (temperature-regulated, low noise)

ACOUSTIC

Sound pressure level: <42 dBA at 1 m (3.3 ft.), steady state, Ta 25° C (77° F)

APPROVALS

US safety: IEC 60825-1 / FDA Laser Notice 50
US Federal Standard: 21 CFR 1040.10 and 1040.11 (c)
Canadian safety: CSA C22.2 No. 60950-1
EU safety: EN 60825-1, EN 60950
EU EMC: EN 55022, EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3

INCLUDED ITEMS

CD with Martin RGB Laser Show software, cue library and firmware
Two security keys: P/N 50521000
Interlock connector (AMP): P/N 05347230
Adjustable mounting yoke: P/N 56600069
5 m (16.4 ft.) USB 2.0 to 6-pin XLR adapter cable
3 m (9.8 ft.) power cable, IEC, Schuko plug: P/N 11501020
1.8 m (5.9 ft.) power cable, IEC, US plug: P/N 11501502
1.8 m (5.9 ft.) power cable, IEC, without plug: P/N 11501010
User manual: P/N 35000189

ORDERING INFORMATION

Martin RGB Laser 1.6 in cardboard box: P/N 90432000
Martin RGB Laser 1.6 in single flightcase: P/N 90432001

Specifications are subject to change without notice

Images contained in this brochure have been converted to CMYK and are not necessarily representative of actual colors.

©2007 Martin Professional A/S




Martin

Martin Professional A/S
Olof Palmes Allé 18
8200 Aarhus N, Denmark
Phone: +45 87 40 00 00
Fax: +45 87 40 00 10
www.martin.com

RGB Laser 1.6 CLASS 4

Martin



SPEED
POWER
ACCURACY
PERFORMANCE

...the four cornerstones of the Martin RGB Laser 1.6 – now even brighter!

Martin has applied innovation and a spectrum of colors to build a compact and lightweight laser unit that is now much brighter with an impressive spread angle of 80 x 80 degrees.

With improved performance from the new scanner, simple plug-and-play operations, hundreds of pre-installed effects and a forced-air cooling system that eliminates the need for expensive and bulky water cooling, the RGBL 1.6 is all about performance made easy.

Slightly larger than an average DVD player, yet able to take the knocks and blows of touring without misaligning, the RGBL 1.6 is designed for the road.

UNCONDITIONAL COLORS

The RGLB 1.6 is capable of extremely deep saturated colors - especially an intense blue (446 nm), which allows the creation of true and pure white like no other laser in its class. Wavelengths are now calibrated closer to Absolute White.

Graphic master

Smooth advanced graphics are achieved using the latest technology with tremendously fast and accurate galvos, which can pass through an amazing 40,000 positions a second. These graphical possibilities are enhanced through the narrowness of the actual beam (<3.5 mm), which gives more flexibility when choosing imagery or in long distance projections.

Quieter and more versatile

The RGLB 1.6 makes less noise when in use, with the temperature-regulated fans producing a maximum of only 42 dBA. This makes the RGLB 1.6 perfect for logo projection in quiet environments.

Use outdoors

The improved IP 52 rating means the unit is not limited to indoor use only. The RGLB 1.6 is dust protected, meaning that harmful deposits cannot build up inside the unit. When used outside, the laser is protected from direct sprays of water.

Rechargeable creativity

Downloading and upgrading images and graphics to the internal flash card is simple to achieve through the USB 2.0 PC interface. The USB connection can also be used for real-time programming, editing and viewing.

Right here, right now

Real-time effect programming, editing and viewing is possible through the included software, and you can customize your own demo sequence with up to 256 cues. This makes the RGLB 1.6 extremely easy to use and is beneficial for speedy setups and shows on the fly.

Easy rider

The unit can be controlled with any standard DMX controller using very reliable 5-pin XLR connectors. The demo of the laser can also be done from the display, without any need for a PC or any other controller. The fixture also uses the signal-input: SubD25:ILDA, which is a worldwide standard.

Long service intervals

Dust-proof sealed optics means that pollutants - such as fog or haze residue - cannot get inside the fixture. This keeps performance at a maximum and service to a minimum.

Made for traveling

Life on the road couldn't be easier with a lightweight yet extremely compact design that won't crowd your truss. Unlike other lasers on the market, the RGLB 1.6 will not misalign with every bump or shake.

Great returns on your investment

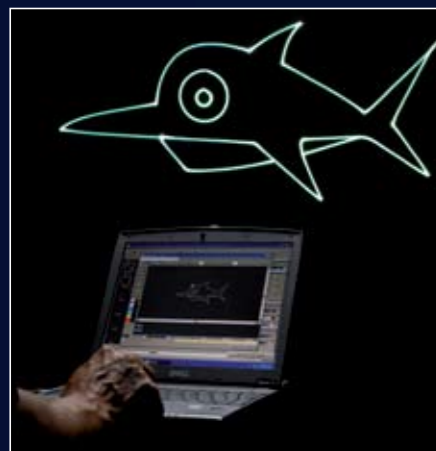
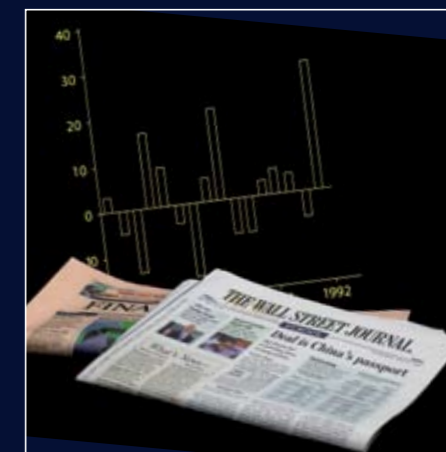
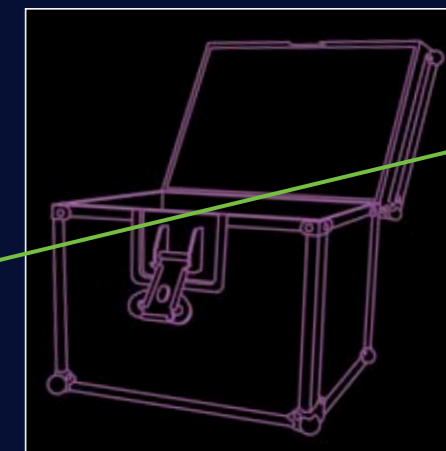
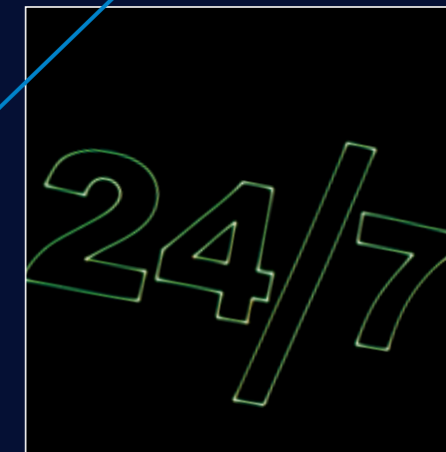
The RGLB 1.6 has a prolonged lifespan that stretches far beyond the competition. With over 10,000 hrs of operation - nearly double that of any other fixture on the market - the RGLB 1.6 offers a truly healthy return on investment.

Safety

Fail-safe systems prevent emission of a single point beam, eliminating potential hazards. As a Class 4 laser, the RGLB 1.6 may only be operated by a trained professional (Laser Safety Officer).

Quality and warranty

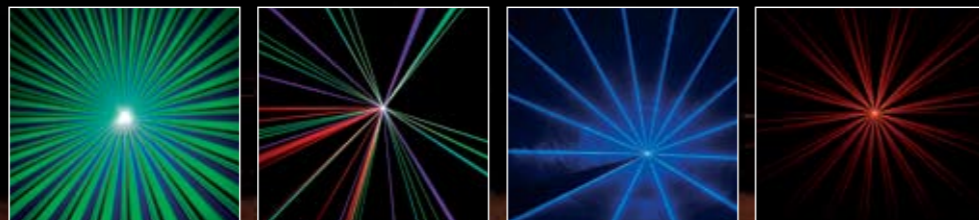
Martin Professional is the leading manufacturer of intelligent lighting and effects. Our service organization spans the globe and offers 24 hour support. The Martin Warranty for the RGLB 1.6 covers the laser diode for a two year period or 3000 hours use, whatever comes first.



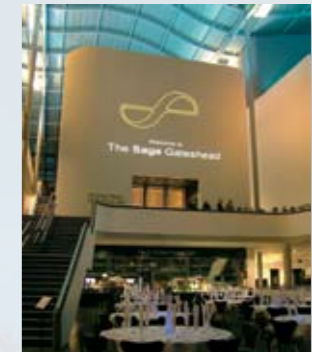
ANIMATED MOMENTS



The RGB Laser 1.6 has performed on outdoor structures, buildings, at events, promotions and permanent installations. Read and see these and many other case stories on www.martin.com



"Comfortably Numb, Canada's Pink Floyd Show" is considered the finest tribute act in North America - perhaps the best in the world - performing faithful renditions of Pink Floyd classics to nostalgic fans. This authentic re-creation of the Pink Floyd experience has been made even more convincing thanks to the addition of Martin's RGB Laser 1.6.



Vortex Lighting of the UK rose to the challenge of producing something a bit more dynamic to add to the lighting of the Royal Television Society Awards (North Eastern Region) at The Sage Gateshead in January 2007. The technical people in attendance at the event were surprised that the new Martin 1.6 RGB Laser had the power to project such a bright and almost flicker-free image from such a small unit.



In July 2006, Vienna welcomed one of the world's leading trance DJs, DJ Tiësto, to the Heineken Green Room. Debuting at the event was Martin Professional's new laser, the RGB Laser 1.6. Tiësto, voted DJ Magazine's "Best DJ in the World" from 2002-2004 whose best gig is surely the Opening Ceremony of the Summer Olympic Games in Athens, performed in Vienna before 10,000 international guests.