Martin® RGB Laser 1.6 Specifications

Physical

Size (L x W x H)..290 x 204 x 178 mm (11.5 x 8.1 x 7.0 in.)
Height with bracket attached .... 260 mm (10.3 in.)
Length with bracket attached .... 326 mm (12.9 in.)
Weight .... 11.2 kg (24.7 lb.)

Laser

Class...4
Type.. Diode laser, cw-emission
Pλ 440 nm-660 nm ....max. 2000 mW cw
White light output.. 1.3 W
Maximum output... 1.6 W
Beam divergence... 0.8 mrad

Wavelengths

Blue .... 442 nm +/-3 nm
Green.. 532.5 nm +/-0.5 nm
Red .... 655 nm +/-5 nm

Controller

Internal flash memory.. 128 MB
Resolution x and y 12-bit
Resolution RGB intensity 8-bit

Projector

Projection angle horizontal .... 60°
Projection angle vertical .... 60°
SASRT (step response time)...0.3 ms

Control options

USITT (1990) DMX-512
ILDA
Programming, real-time editing and uploads with included PC show software package
Standalone autostart mode

Electrical

AC power...100-240 VAC nominal, 50/60 Hz
Main fuse ....2.5 A slow blow, 5 x 20 mm glass type, P/N 05020010

Maximum power and current

100V, 60Hz...1.8 A, 180 W
110V, 60Hz...1.7 A, 180 W
115V, 60Hz...1.7 A, 180 W

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120V, 60Hz..........................................................................................................1.7 A, 180 W
220V, 50Hz..........................................................................................................0.7 A, 180 W
230V, 50Hz..........................................................................................................0.7 A, 180 W
240V, 50Hz..........................................................................................................0.7 A, 180 W
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Measurements taken at nominal voltage and frequency. Allow for +/-10% variation.

Connections

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AC power inlet .................................................................................3-prong IEC male socket
Analog (ILDA) in/out........................................................................................ 25-pin Sub-D
DMX in/out....................................................................................... 5-pin locking XLR
Programming and uploads ........................................................................................ USB 2.0
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Approvals


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EU Safety ....................................................................................... EN 60950, EN 60825-1
EU EMC .........................................EN 55022, EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US Safety .........................................................................IEC 60825-1 / FDA Laser Notice 50
US Federal standard .................................................................21 CFR 1040.10 and 1040.11
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Construction

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Housing ...........................................................................................................Aluminum
Ingress Protection rating ................................................................................... IP 20
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Installation

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Orientation.......................................................................................................Any
Minimum distance to persons and objects in beam zone ....................................... 2 m (79 in.)
Minimum height above publicly accessible floor .................................................. 3 m (10 ft.)
Minimum distance to illuminated surfaces ......................................................... 2 m (79 in.)
Minimum distance to combustible materials ........................................................ 1 m (40 in.)
Minimum clearance around device ...............................................................30 cm (12 in.)
Relative humidity limits...................................................................0 – 90% non-condensing
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Thermal

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Maximum ambient temperature (T_a) ................................................................40° C (104° F)
Minimum ambient temperature (T_a) ............................................................5° C (41° F) non-condensing
Recommended storage temperature ........................................................20-25° C (68-77° F)
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Included items

CD with Martin[®] RGB Laser Show software, default cue library and fixture firmware (backup copy)
Two security keys for key switch
Interlock connector (AMP)
Adjustable U-bracket
USB Cable
3 meter (9.8 ft) IEC power cable with Schuko (Euro) connector

1.8 meter (6 ft) IEC power cable with US connector
1.8 meter (6 ft) IEC power cable without connector
User manual

Accessories
Emergency switch

Ordering Information
Martin® RGB Laser 1.6 (in cardboard box).. P/N 90432000
Martin® RGB Laser 1.6 (in flight case)... P/N 90432001

Specifications subject to change without notice

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