An included frosted front lens adds
to the verstility of the Stagebar 54

With the addition of Amber and White to the RGB mix Martin can offer a broader, finer range of colors

Clear lens

Broader and finer range of colors

The Stagebar 54 is extremely bright - bright enough to be matched with other light sources. With five colored diodes (Red, Green, Blue, Amber and White), instead of the usual three, Martin is able to offer a broader and finer range of colors. While the amber helps extend the color range and give effective color temperature control, the white diode provides a better white light quality and the chance to create softer, subtler pastels.

Color consistency

With the Stagebar we set out to solve what has been one of the major drawbacks of LED lighting: color consistency. A central feature of the Stagebar 54 is the ability to create even and consistent colors. This is because each pixel board leaving the factory has been measured and calibrated, guaranteeing standardized brightness and color performance.

Automatic heat management for prolonged performance

Everyone knows that LEDs have a long lifespan. But the truth is, many LED products have simply not lived up to expectations. As many lighting designers are learning, the lifetime and brightness of LEDs are highly dependent on the way the heat is removed from them. Martin has applied its unique knowledge of heat management to address this issue. In order to ensure the best possible lumen performance, on-demand fans monitor and regulate cooling. The smart heat management extends the lifespan of diodes, while still maintaining acoustic levels to benefit TV or sound-sensitive applications.

The new Stagebar 54 is a compact, powerful LED luminaire with a comprehensive color range, all-in-one simplicity and a tough temperament for the touring market.

It functions as a pixel bar for displaying imagery and video or as a wash luminaire for floodlighting surfaces and stages.

Working closely with the market, Martin has addressed many of the issues in terms of the functionality and serviceability of LED lighting. We have produced one of the most innovative, functional and service-friendly LED products on the market today.

Simple set-up and installation

A prime focus in the development of the Stagebar 54 has been to circumvent some of the logistic and set-up problems associated with LED lighting. This has culminated in a simple, unique all-in-one solution.

All in one system
Each Stagebar unit has direct power and DMX inputs so there is no need for external power supplies or additional cables and DMX boxes.

Straight lines of light
Cutouts in end profiles make horizontal fixture alignment quick, easy and accurate.

Light on the truss
In addition, the Stagebar 54 is lightweight at 5.5 or 7.3 kg (12.1 or 16.1 lbs.), saving weight in transport and on the truss.

Look, no cables!
A battery-powered control menu is an incredible time saver. This feature lets you configure and address the units off-site without being powered up.

Versatile mounting system
We have also paid attention to the mechanical aspects of set-up. The standard Omega bracket or the included mounting system allows both truss and floor mounting and doubles as a carrying handle.

No cable spaghetti!
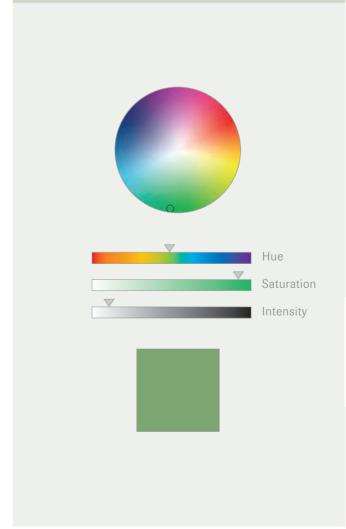Loop-through power and data links let you daisy chain fixtures, saving miles of cable spaghetti.

Multiple color control modes

To give as much flexibility as possible, Martin has provided four distinct control modes. This gives the option of simple and effective control economizing on channels, or full, comprehensive control when a designer needs it.

1 HSI (Hue, Saturation, Intensity)
HSI is relatively new in lighting control. It is highly intuitive. Set the effect you want by scrolling through hues (red, orange, yellow, green, cyan, blue, violet), altering their saturation from deep to white, and finally changing their intensity from bright to dark.

2 HSI-C (Hue, Saturation, Intensity and Color Temperature)
HSI-C adds color temperature control to the intuitive benefits of HSI.

3 RGB (Red, Green, Blue)
Using only three channels, this mode approximates a standard RGB output based on all five colors.

4 RGBAW (Red, Green, Blue, Amber, White)
Using five channels, this mode controls each color independently allowing fine-tuned color command.

Hue
Saturation
Intensity

Pixel grouping

In addition, the Stagebar offers four pixel control modes that let you control pixels individually or in groups of 2, 3 or 6. The advantage of this is that you can save on DMX channels when working with designs that require multi-pixel blocks of color.

Groups of 6
Groups of 3
Groups of 2
Individually

RJ-45 connectors

The Stagebar 54 is controlled by industry standard DMX 512-A. RJ-45 connectors and optional XLR adapters give maximum flexibility.

Auto sensing SMPS for worldwide compatibility

The Stagebar 54 is equipped with an auto sensing switch mode power supply and is therefore compatible with all worldwide voltages.

Reliability and quality

As a Martin product the Stagebar 54 has been rigorously tested and has CE, ETL & CETL official approvals so you know you're covered – anywhere in the world.

Frosted and clear lens options

The Stagebar 54 comes with an included frosted diffuser lens which increases the versatility of the product by providing additional looks and effects. The lenses can be easily swapped and are made for creating full-pixel, graphical effects and video imaging.

Service with a smile

Fast and efficient servicing saves time and money, so when it comes to service we made sure we incorporated a range of new features.

Quick access for lens and pixel changes

Changing the lenses for a different look is easily achieved via the front of the fixture. The LEDs can also be similarly accessed if they need changing.

Software updates

New software features and updates are simply added via the DMX input.

Cleaning

Simple, ergonomic construction designed for fast and easy cleaning with quick access to cooling.

Long and short

The Stagebar 54 is available in 2 lengths: 420 mm (S) and 630 mm (L)

Specifications

PHYSICAL

Length, Stagebar 54S:	420 mm (16.5 in.)
Length, Stagebar 54L:	630 mm (24.8 in.)
Width:	190 mm (7.5 in.)
Height:	105 mm (4.1 in.)
Weight, without bracket, Stagebar 54S:	5.5 kg (12.1 lbs.)
Weight, without bracket, Stagebar 54L:	7.3 kg (16.1 lbs.)

DYNAMIC EFFECTS

Color mixing:	RGBAW, RGB, HSI, HSIC, 0 - 100% independently variable

CONTROL AND PROGRAMMING

DMX channels:	3 - 30
Grouped pixel control options:	6 x 1 (individual), 3 x 2, 2 x 3 or 1 x 6 (all as one group) pixels
Setting and adressing:	Auto-addressing, manual via onboard control panel
Display:	Battery-powered backlit LCD, 2x16 character
16-bit control (internal):	RGBAW and RGB color mixing
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

PHOTOMETRIC DATA

Light source:	Luxeon K2 high power emitters
Half-peak beam angle:	29°, optional angles will be available
LED power per pixel:	2 x 1.2 W red, 2 x 2.9 W green, 2 x 2.9 W royal blue, 2 x 1.2 W amber, 1 x 2.9 W white
Total LED power per bar:	116 W
Total output:	1900 lumens
Even pitch across adjacent fixtures:	Horizontal/vertical (Stagebar 54L), horizontal (Stagebar 54S)

CONSTRUCTION

Color:	Black
Housing:	Steel and aluminum
Finish:	Electrostatic powder-coated
Protection rating:	IP 20

INSTALLATION

Mounting points:	Adjustable mounting bracket, 1/4-turn locks, four M6 threaded holes
Orientation:	Any

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Integrated, multi-voltage

ACOUSTIC

Noise level:	<40 dBA at 1 m (3.3 ft.), steady state, Ta 25° C (77° F)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-17, IEC/EN 60825-1
EU EMC:	EN 55 015, EN 55 103-1, EN 55 103-2
US safety:	ANSI/UL 1573
Canadian safety:	CAN/CSA E 60598-2-17

INCLUDED ITEMS

Diffuser front (54S models):	P/N 41704080
Diffuser front (54L models):	P/N 41704060
Adjustable floorstand/mounting bracket:	P/N 71606007
3 m power cable, 12 AWG, SJT, with PowerCon® NAC3FCA power input connector:	P/N 11541503
5-pin XLR male to RJ-45 adapter (both cable connectors Neutrik in locking housing):	P/N 11840114

ACCESSORIES

3 m power cable, 12 AWG, SJT, with PowerCon® NAC3FCA power input connector:	P/N 11541503
Neutrik® PowerCon® NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik® PowerCon® NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
5-pin XLR female to RJ-45 adapter:	P/N 11840112
RJ-45 to RJ-45 patch cable, 600 mm:	P/N 11840105

ORDERING INFORMATION

Stagebar 54S:	P/N 90352000
Stagebar 54L:	P/N 90352010