

MAC III Performance™



Martin®

Framing unlimited!



The MAC III Performance™ is a flexible, high-output profile moving head with a new interleaved framing system with full cross-over of each blade and industry-first continuous rotation for new and unlimited projection, framing and effects possibilities.

Capable of creating a greater variety of shapes than competitive products, it is available as a stand-alone fixture or as a cost-effective module that installs in minutes on any existing MAC III Profile™.

Framing unlimited

The MAC III Performance's unique continuous rotation framing system is an industry first.

Four individually controllable shutter blades can be micro-adjusted in an infinite variety of positions for a greater refinement of beam shape, and continuous rotation allows the image to revolve successively at any angle.

Each shutter blade can move across the entire beam to a complete blackout so not only are more shapes possible but any shape can be positioned in any part of the field of light. This flexibility in shapes comes via an interleaved system which also ensures optimal focus of all blades.

The flexible shutter system allows gobos to be seamlessly crossfaded in and out.

Primarily used to frame set elements and performers, continuous rotation framing allows the MAC III Performance to also be used as a unique and capable effect light.

Animation and framing in one fixture

The MAC III Performance includes Martin's pioneer gobo animation system which allows for the projection of effect simulations such as rising flames, drifting clouds, driving rain, turbulent water and much more.

No competitor offers a framing and animation system in one moving head. The result is all new projection and mid air effects possibilities for greater artistic freedom.

Feature packed and quiet

In addition to the module features, the 1500 watt MAC III Performance houses all of the advanced features you've come to expect from the MAC III Profile: efficient optics, CMY color mixing, variable CTO, dimming, zoom, modular design, electronic ballast and more. It is also the quietest fixture in its class.

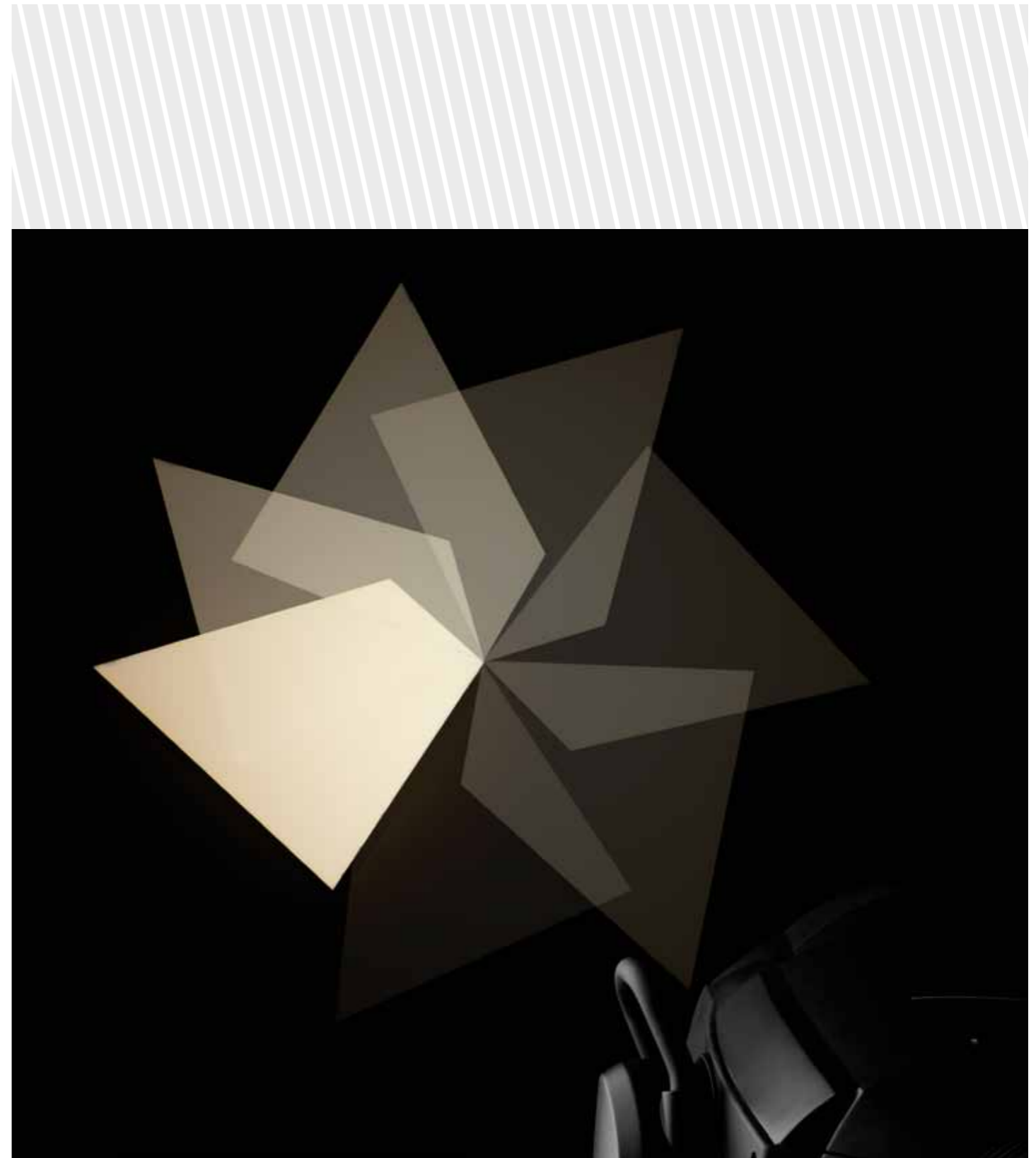
The MAC III Performance is fully RDM compatible and in order to make the fixture even more user-friendly, on-board software creates a service and event log for download.

Profile to Performance...and back again

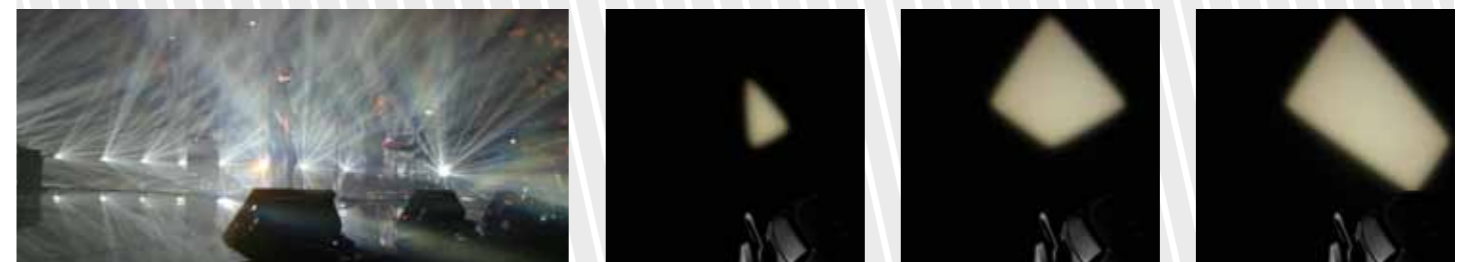
The MAC III Performance module easily converts any MAC III Profile into a MAC III Performance in less than five minutes, bringing added flexibility and value to existing MAC III Profile fixtures for very little cost.

Easily convertible from profile to performance and back again, users can enjoy all the benefits of both without having to invest in two separate luminaires.

The easy-to-swap module consists of a framing system with continuous rotation, shutter, iris, rotating gobo wheel (5 gobos), animation wheel and color wheel. It can be easily uninstalled and the fixture returned to a standard MAC III Profile at any time.



A continuous rotation framing system provides unlimited projection, framing and effects possibilities.



Specifications

Physical

Length (Head):	712 mm (28.0 in.)
Width:	536 mm (21.1 in.)
Height:	936 mm (36.9 in.)
Weight:	54.9 kg (121.0 lbs.)

Lamp

Type:	1500 W short-arc discharge
Fitted as standard:	Osram HTI 1500W/60/P50
Color temperature:	6000 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Semi-hot (restrike in under 90 seconds)
Socket:	PGJ50
Ballast:	Electronic

Dynamic Effects

Color mixing:	CMY, independently variable 0 - 100%
Color temperature control:	CTO, variable 0 - 100%
Color wheel:	7 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Rotating gobo wheel:	Rotating gobo wheel with 5 interchangeable rotating gobos + open, gobo indexing, continuous rotation and shake
Rotating framing module:	Continuously rotating framing module, can frame and morph between squares, parallelograms and triangles or give complete blackout with one frame
Gobo animation:	Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Frost:	Fixed and interchangeable
Iris:	0 - 100%, pulse effects
Mechanical dimmer:	0 - 100%, choice of four dimming curves
Mechanical shutter:	Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus:	2 m (6.6 ft.) to infinity
Zoom:	11.5° - 55°
Zoom-focus linking system:	3-zone
Pan:	540°
Tilt:	268°
Position correction system:	Absolute position monitoring

Control and Programming

DMX channels:	33/40
Setting and addressing:	Control panel with backlit graphic display and jog wheel or via DMX
16-bit control:	Dimmer, gobo indexing (gobo wheel 1), frame rotation, focus, zoom, pan and tilt
Protocol:	USITT DMX512-A, RDM
Receiver:	Opto-isolated RS-485
Firmware update:	USB memory device or USB/DMX hardware interface over DMX link

Construction

Color(s):	Black
Housing:	Magnesium alloy, UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP20

Gobos

Size:	E
Approved material:	Borosilicate 3.3 or better with dichroic or heavy matted aluminum coating (metal gobos not approved)
Outside diameter:	375 mm (1.5 in.) +/- 0.2 mm (0.01 in.)
Maximum image diameter:	30 mm (1.2 in.) +/- 0.4 mm (0.02 in.)
Maximum thickness:	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)

Gobo Animation Wheel

Outside diameter:	133.9 mm (5.3 in.) +/- 0.1 mm (0.004 in.)
Image outer diameter:	130 mm (5.1 in.)
Image inner diameter:	32 mm (1.3 in.)
Thickness:	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)
Construction:	Borofloat or better with dichroic or enhanced aluminum coating

Installation

Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to illuminated surfaces:	2.5 m (8.2 ft.)
Minimum distance to combustible materials:	0.2 m (0.7 ft.)

Connections

AC power input:	Neutrik PowerCon connector with 3 m (9.8 ft.) cable tail
DMX and RDM data in/out:	5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready):	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB memory devices:	USB host socket
Future USB options:	USB device socket

Electrical

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuses:	16 AT (x 2)
Thermal Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temp. (Ta max.):	40° C (104° F)
Maximum surface temp. steady state, Ta=40° C (104° F):	170° C (338° F)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz):	6160 BTU/hr

Approvals

EU safety:	EN 60598-1, EN 60598-2-17
EU EMC:	EN 55 015, EN 55 103-1, EN 61 547
US safety (pending):	ANSI/UL 1573
Canadian safety (pending):	CSA C22.2 No. 166

Included Items

Osram HTI 1500W/60/P50 lamp (installed):	P/N 97010326
Tribal waves gobo animation wheel (installed):	P/N 62325143
Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001
User manual:	P/N 35000214
3 m (9.8 ft.) power cable, 12 AWG, SJT, with PowerCon NAC3FCA power input connector:	P/N 11541503

Accessories

Philips MSR Gold 1500 Fastfit lamp:	P/N 97010340
Four-facet prism in holder:	P/N 62329120
Omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602008
Half-coupler clamp:	P/N 91602005
G-clamp (suspension with yoke vertically downwards only):	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only):	P/N 91602007
Swing-wing mounting plate with half-couplers:	P/N 91602010
Super Truss 20.5" mounting plate with half-couplers:	P/N 91602014

Ordering Information

MAC III Performance in cardboard box:	P/N 90206200
MAC III Performance in single flightcase:	P/N 90206210

Martin Professional A/S

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Founded in 1986 and headquartered in Aarhus, Denmark, Martin Professional is a world leader in the creation of dynamic lighting solutions for the entertainment, architectural, and commercial sectors. Martin lighting solutions are industry standard on top tours and events, grace prestigious theatres, energize nightclubs, and decorate major television studios around the globe. The company operates the industry's most complete and capable distributor network with local partners in nearly 100 countries. For more information please visit www.martin.com

