

Profile and Wash





MAC 700 on tour with **Partners in Light Tours** The MAC 700 Series heralds a new Paul McCartney era of compact-sized, moving head Madonna luminaires from Martin. Powerful, Depeche Mode feature-rich and designed for effortless James Blunt service and customization, the MAC BB King 700 Wash and Profile complement Lee Ann Womack each other in creating the perfect Rosanne Cash balance of solidly washed colors, Lyle Lovett stunning spotlight patterns and Beastie Boys animation effects. The Pretenders A warm welcome Joe Cocker Used on some of the world's biggest Nine Inch Nails and most challenging tours, the MAC Radiohead 700 has received glowing reviews David Gray and gained a chorus of devoted Tracy Chapman Tim McGraw and Faith Hill Jethro Tull The Wiggles John Butler Trio Theatre One Flew Over the Cuckoo's Nest, West End Lennon, Broadway A Dancer's Life, Broadway David Copperfield Starlight Express Chitty Chitty Bang Bang, UK Embers, West End Aladdin, West End **Television** Top Of The Pops Australian Idol Late night with Conan O'Brien VH-1 Honors 2006 Dubai TV Sports Channel Wheel of Fortune The Karen Taylor Show Who Wants to be a Millionaire? **Events** Xbox 360 Corporate Show Scandinavian Music Convention NAIAS - Detroit Auto Show Coachella Valley Music Festival IAAF World Track and Field Championships Autosport Awards

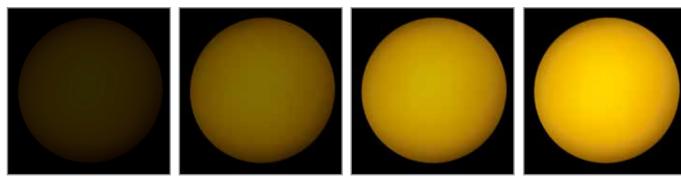
It's what it's all about.

After all is said and done, a beautifully clean even beam from center to edge is the foundation upon which everything else lies.

We believe we have achieved just this in the MAC 700 Series, creating the ideal balance between optical performance and output, giving an incredibly powerful beam of smooth uniform light.

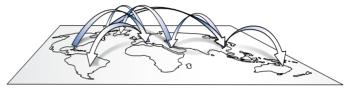
A 700 watt, double-ended, short arc lamp works in harmony with a tremendously efficient reflector and optical system to punch out more light than you are used to seeing in fixtures this compact. The 700 Series' brightness is truly astounding matching and surpassing the output of higher wattage lamp sources.

MAC 700 Series



Dimming and Strobing

An accurate full range dimmer/shutter system allows for both smooth and fast intensity changes, whether it is a long fade, or a snap to blackout. As a shutter, accelerated strobe effects are possible up to 10 Hz.



Border Proof

An auto-sensing power supply covers worldwide voltages and frequencies allowing the fixtures to operate anywhere in the world.



Quiet Operation

The MAC 700 Series combines a clever heat management design with head and base temperature sensors to ensure that fan speeds are kept to a minimum bringing noise levels right down to suit theatre and TV studio applications.

Flicker-Free Light

work. It also allows the fixtures to run in a reduced power ensuring lamp preservation.

The PFC electronic ballast provides the fixtures with a mode; extending lamp life and further reducing their low flicker-free image making them ideal for television and film noise output. Hot lamp re-strikes are also possible, further



MAC 700 Series



Tour Proof

The Martin flight case, designed for the MAC family, is recognized in the industry as one of the best purpose-built cases for the transportation of lighting fixtures. Made of durable ply, it is covered in a tough water-repellent coating for added protection.



Rapid & Precise

540° pan and 246° tilt are achieved through Martin's outstanding pan and tilt motors, drivers and software, which give rapid movement with noticeably less noise than other fixtures on the market.

An intelligent positioning correction system automatically returns the Profile or Wash to their original position should they accidentally be knocked out of place, while a multi position, tilt-lock mechanism is also featured to permit easy maintenance and handling.

Easy Maintenance

An exceptionally functional modular design allows you fast and easy, tool-free access to critical components, reducing maintenance periods and saving time and money. A focus on product efficiency also means the MAC 700 Series has strong standardized modules and parts, simplifying logistics and lowering stock investment.



Seamless CMY Color Mixing

A CMY color-mixing system mixes colors instantly and As well as the CMY color mixing system the MAC 700s accurately. The system employs six, coated dichroic flags feature a separate color wheel with eight slots plus open. providing a full spectrum of fantastic rich colors. Mechanically Color selections may be changed quickly and easily, offering short distances make for extremely fast color bumps while a seemingly limitless array of color combinations. In the 700 the award-winning optical design of the MAC family ensures Series the color slots can also be used for color correction smooth, even light and color distribution.

Eight Position Color Wheel

filters to further harmonize fixtures.



The MAC 700 Series is DMX512-controllable, equipped with both 3-pin and 5-pin XLR in/out sockets, and is totally compatible with coming standards such as Remote Device Management.

Animate your show

what would happen if they took the animation system from a traditional theatrical luminaire and placed it in the MAC 2000 Performance, they had no idea of the revolution it would From this kernel of innovation grew unleash on the lighting industry.

When Martin decided in 2002 to see The new animation feature - originally intended to benefit mainly theatrical productions - quickly flourished in every application of light, and the industry never looked back.

> an industry standard that Martin has perfected, and today you can find a world of animated possibilities in even

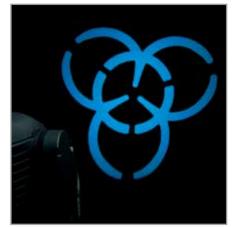
one of our most compact yet powerful fixtures - the MAC 700 Profile.

Flowing water, clouded skies and flickering flames add depth and dimension like no gobo can. Fully DMX controlled, the system comes complete with one animation wheel, with further wheels available to expand your library. Each wheel is quickly changed via a magnetic coupling without the use of tools.









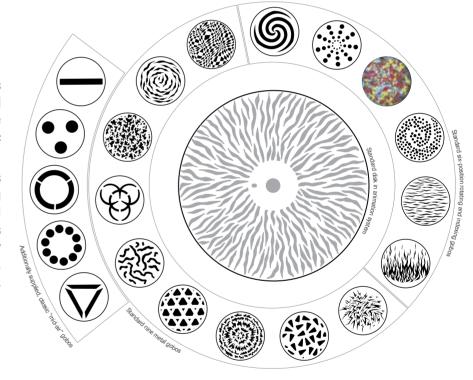
Motorized Zoom and Focus

A variable motorized zoom allows full control over the beam angle of the MAC 700 Profile. Without restrictions or lens changes the fixture zooms continuously from 14 to 30 degrees. A variable focus system allows you to adjust the sharpness of your projection at any beam angle, whether you need a razor sharp image or a de-focused background effect.

Gobos

Glass, textured glass or metal gobos fit within a six-position rotating and indexing gobo wheel (plus open). Nine metal gobos make up a second static gobo wheel (plus open).

The combination of two gobo wheels easily allows for advanced morphing effects adding a huge range of graphical possibilities. The gobo system permits 16-bit control for extreme accuracy with all gobos easily interchangeable, removing any obstacle to your creativity.



Prism and Iris

A bi-directional, 3-facet prism rotates at variable speeds, adding unique effects to gobo projection. The prism can also be replaced giving lighting professionals further options for customization.

A motorized iris allows you to resize the beam quickly and accurately for fast effects with smaller beam sizes.



MAC 700 Profile

Specifications

PHYSICAL

Length: 450 mm (17.7 in.) Width: 365 mm (14.4 in.)

Height (head straight up): 636 mm (25.0 in.)

Weight: 34.5 kg (76.1 lbs.)

LAMP

Type: 700 W short arc discharge Approved lamp: OSRAM HTI 700/D4/75

Hot restrike: Yes

Socket: Double-ended SFc 10-4 with key

Ballast: Electronic

DYNAMIC EFFECTS

Color mixing: CMY, independently variable 0 - 100%, 8- or 16-bit control Color wheel: 8 replaceable dichroic filters (6 colors and 2 CTC) plus open, 8- or 16-bit control

Rotating gobo wheel: 6 positions plus open,

indexed and variable speed continuous gobo rotation, 16-bit control

Static gobo wheel: 9 positions plus open, 8-bit control

Gobo animation wheel effects: Vertical, horizontal or angled animation effects

Gobo animation wheel rotation: Indexed and variable speed

continuous rotation, 8- or 16-bit control

Prism: Replaceable, high speed rotating 3-facet prism, 8-bit control

Iris: 8- or 16-bit control

Dimmer: 0 - 100%, 8- or 16-bit control

Shutter: Strobe effect variable 2 - 10 Hz, 8-bit control

Focus: 2 m (6.6 ft.) to infinity, 8- or 16-bit control

Zoom: 2.1:1 (14° - 30°), 8- or 16-bit control

Pan: 540°, 8- and 16-bit control

Tilt: 246°, 8- and 16-bit control Position correction system: Yes

GOBOS

Outside diameter: 27.9 mm (1.1 in.) +0/- 0.3 mm (0.01 in.)

Maximum image diameter: 23 mm (0.9 in.)

Maximum thickness: 1.1 mm (0.04 in.) in static slots, 4 mm (0.2 in.) in rotating slots

Recommended glass: High-temperature Borofloat or better

with dichroic or enhanced aluminum coating

Recommended metal: 0.5 mm (0.02 in.) aluminum

GOBO ANIMATION WHEEL

Outside diameter: 116 mm (4.6 in.) +0/- 0.25 mm (0.01 in.)

Image outer diameter: 112 mm (4.4 in.)

Image inner diameter: 32 mm (1.3 in.)

Construction: 0.5 mm (0.02 in.) aluminum, magnetic mounting

CONTROL AND PROGRAMMING

DMX channels: 23 (16-bit basic mode) or 31 (16-bit extended mode)

Setting and addressing: Control panel with LED display, MP-2 uploader $\,$

Movement control options: Tracking and/or vector

Receiver: Opto-isolated RS-485

Protocol: USITT DMX 512 (1990)

Firmware update: Serial upload (MUF)

OPTICS

Reflector: Glass cold light

One-tenth peak output (max.): 14700 lumens at 30°

One-tenth peak angle: 14° - 30° (focused on open gobo)

Focal length: 46 mm (1.8 in.) - 100 mm (3.9 in.)

CONSTRUCTION

Color: Black

Housing: UV-resistant fiber-reinforced composite

Chassis: Steel & aluminum, shock resistant design

Handling: Ergonomic carrying handles

Protection factor: IP 20



INSTALLATION

Mounting points: 2 pairs of 1/4-turn locks

Minimum distance to illuminated surfaces: 1.2 m (3.9 ft.)

Minimum distance to combustible materials: 0.5 m (1.6 ft.)

Orientation: Any

FLECTRICAL

Operating range: 100-120/208-240 V nominal, 50/60 Hz

Power supply: Auto-ranging electronic switch-mode

Main fuse (100-120 V power): 15 AT (slow blow)

Main fuse (208-240 V power): 6.3 AT (slow blow)

THERMAL

Maximum ambient temperature (Ta): 40° C (104° F)

Maximum surface temperature, steady state, Ta=40° C (104°F): 160° C (320° F)

Cooling: Filtered forced air (temperature regulated, low noise)

Total heat dissipation (calculated, 110 V, 60 Hz / 230 V, 50 Hz):

3340 BTU/hr / 3190 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: ANSI/UL 1573

Canadian safety: CSA C22.2 No. 166

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Osram HTI 700/D4/75 lamp: P/N 97010212

6 dichroic color filters (installed) 9500 K CTC filter (installed)

1500 K CTC liller (Iristalled)

UV transmitter filter (installed) 6.3 AT main fuse

6.3 AT main fuse P/N 05020020 15 AT main fuse P/N 05020027 Two Omega clamp attachment brackets with 1/4 turn fasteners P/N 91602001

User manual

ACCESSORIES

Spiral breakup animation wheelP/N 62325049Linear breakup gobo animation wheelP/N 62325050Coarse tangential gobo animation wheelP/N 62325051

Cloud breakup gobo animation wheel P/N 62325094
Elliptical breakup gobo animation wheel P/N 62325095

 Half-coupler clamp
 P/N 91602005

 G-clamp
 P/N 91602003

DABS 1 PC/fixture interface device P/N 91611144
MP-2 Uploader P/N 90758420
Safety wire, universal, 50 kg safe work load P/N 91604003

ORDERING INFORMATION

MAC 700 Profile in cardboard packing case P/N 90207000
MAC 700 Profile in flight case P/N 90207001

P/N 97010212 P/N 05020020 P/N 05020027 P/N 91602001 P/N 35000185 P/N 62325049 P/N 62325050 P/N 62325051 P/N 62325051 P/N 62325094 P/N 62325095 P/N 91602005 P/N 91602003 P/N 91602003 P/N 91604003 P/N 90207000 P/N 90207001

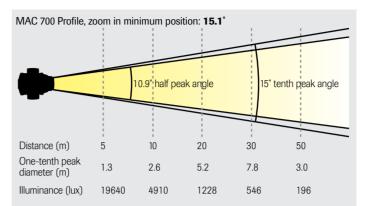
MAC 700 Profile

MAC 700 Profile Photometric Data

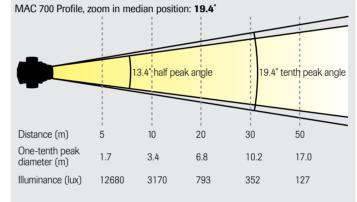
Test lamp: Osram HTI/700 W/D4

Test conditions: 230 V/50 Hz, no effects applied

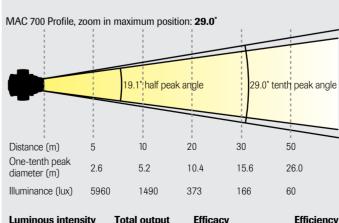
Rated color temperature: 7500 K Rated output: 54000 lumens



Luminous intensity	Total output	Efficacy	Efficiency
491 000 candela	14300 lumens	15.3 lumens per watt	26.5%
Half-peak (beam) diamet			



	Luminous intensity	Total output	Efficacy	Efficiency
	317 000 candela	14600 lumens	15.7 lumens per watt	27.1%
Half-peak (beam) diameter: 0.24 x distance				
Tenth-peak (field) diameter: 0.34 x distance				



Luminous intensity	rotai output	Efficacy	Efficiency	
149 000 candela	14700 lumens	15.7 lumens per watt	27.3%	
Half-peak (beam) diameter: 0.34 x distance				p
Tenth-peak (field) diameter: 0.52 x distance				f,

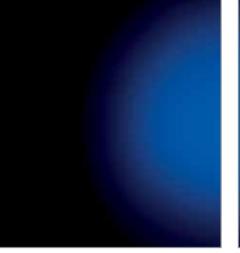


The lightest touch

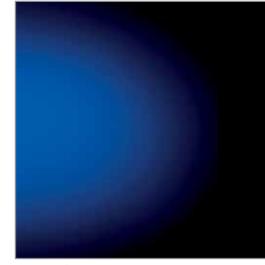


MAC 700 Wash









Projection from 3 meters with beam shaper system.

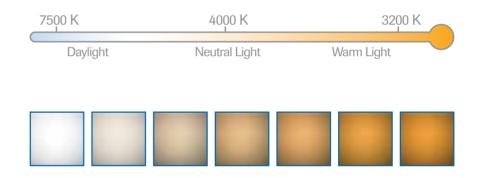
Indexing & Rotating Beam Shaper

The beam shaping system dynamically changes the round light beam into a rotating, elliptical form for accurate beam placement on façades, stages and objects.

The beam can be indexed through 360 degrees for total precision while the continuous rotation also creates an arresting mid-air effect.

Variable Color Temperature

Provides flexibility in color temperature and gives warmer and more saturated shades of colors. This is also a major benefit when calibrating fixtures with a disparity in lamp age and therefore actual color output. It is additionally useful in matching color temperatures when working alongside tungsten fixtures or in theatre and television applications. The range with a HTI lamp is 7500 to 3200K.



Motorized Zoom

A variable motorized zoom allows for full control over the beam angle of the MAC 700 Wash. Without restrictions or lens changes, the fixture zooms continuously from a slender 12.5 to a broad 66 degrees (tenth peak angles). Much effort has been put into ensuring that the beam maintains a smooth and even form at every step along the zoom range.







MAC 700 Wash

Specifications



PHYSICAL

Length: 450 mm (17.7 in.) Width: 365 mm (14.4 in.)

Height (head straight up): 656 mm (25.8 in.)

Weight: 32 kg (70.5 lbs.)

LAMP

Type: 700 W short arc discharge Approved lamp: OSRAM HTI 700/D4/75

Hot restrike: Yes

Socket: Double-ended SFc 10-4 with key

Ballast: Electronic

DYNAMIC EFFECTS

Color mixing: CMY, independently variable 0 - 100%, 8- or 16-bit control Color wheel: Color wheel: 8 replaceable filters (6 colors, 9500 K CTC and UV transmitter) plus open, 8- or 16-bit control

Color temperature control: 7500 - 3200 K variable 0 - 100%, 8- or 16-bit control Beam shaper: Indexable and variable speed continuous rotation

Dimmer: 0 - 100%, 8- or 16-bit control

Shutter: Strobe effect variable 2 - 10 Hz, 8-bit control

Zoom: 5:1 (12.5°-66°), 8- or 16-bit control

Pan: 540°, 8- and 16-bit control

Tilt: 246°, 8- and 16-bit control

Position correction system: Yes

CONTROL AND PROGRAMMING

DMX channels: 16 (16-bit basic mode) or 23 (16-bit extended mode) Setting and addressing: Control panel with LED display, MP-2 uploader

Movement control options: Tracking and/or vector

Receiver: Opto-isolated RS-485

Protocol: USITT DMX 512 (1990) Firmware update: Serial upload (MUF)

OPTICS

Reflector: Glass cold light

One-tenth peak output (max.): 17000 lumens at 50°

One-tenth peak angle: 12.5° - 66°

CONSTRUCTION

Color: Black

Housing: UV-resistant fiber-reinforced composite

Chassis: Steel & aluminum, shock resistant design

Handling: Ergonomic carrying handles

Protection factor: IP 20

INSTALLATION

Mounting points: 2 pairs of 1/4-turn locks

Minimum distance to illuminated surfaces: 1.2 m (3.9 ft.)

Minimum distance to combustible materials: 0.5 m (1.6 ft.)

Orientation: Any

ELECTRICAL

Operating range: 100-120/208-240 V nominal, 50/60 Hz Power supply: Auto-ranging electronic switch-mode Main fuse (100-120 V power): 15 AT (slow blow)

Main fuse (208-240 V power): 6.3 AT (slow blow)

THERMAL

Maximum ambient temperature (Ta): 40° C (104° F)

Maximum surface temperature, steady state, Ta=40 $^{\circ}$ C (104 $^{\circ}$ F): 160 $^{\circ}$ C (320 $^{\circ}$ F)

Cooling: Filtered forced air (temperature regulated, low noise)

Total heat dissipation (calculated, 110 V, 60 Hz / 230 V, 50 Hz):

3340 BTU/hr / 3190 BTU/hr

APPROVALS

EU safety: EN 60598-1, EN 60598-2-17 EU EMC: EN 55 015, EN 55 103, EN 61 000-3

US safety: ANSI/UL 1573

Canadian safety: CSA C22.2 No. 166

INCLUDED ITEMS

Osram HTI 700/D4/75 lamp: P/N 97010212 6 dichroic color filters (installed)

9500 K CTC filter (installed)

UV transmitter filter (installed)

6.3 AT main fuse P/N 05020020 15 AT main fuse P/N 05020027

Two Omega clamp attachment brackets with 1/4 turn fasteners P/N 91602001
User manual P/N 35000185

ACCESSORIES

Half-coupler clamp P/N 91602005
G-clamp P/N 91602003
DABS 1 PC/fixture interface device P/N 91611144

MP-2 Uploader P/N 90758420 Safety wire, universal, 50 kg safe work load P/N 91604003

ORDERING INFORMATION

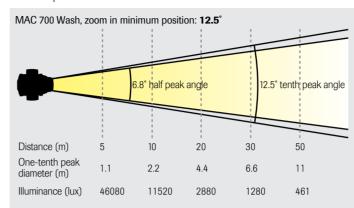
MAC 700 Wash in cardboard packing case P/N 90207400
MAC 700 Wash in flight case P/N 90207401

MAC 700 Wash

Photometric Data, Zoom

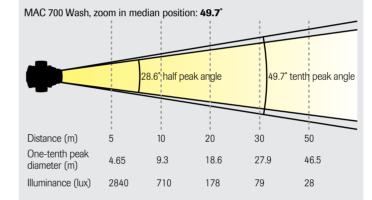
Test lamp: **Osram HTI/700 W/D4**Test conditions: 230 V/50 Hz, no effects applied

Rated color temperature: 7500 K Rated output: 54000 lumens



Luminous intensity	Total output	Efficacy	Efficiency
1 152 000 candela	18600 lumens	19.8 lumens per watt	34.5%
	0.40 ".		

Half-peak (beam) diameter: 0.12 x distance Tenth-peak (field) diameter: 0.22 x distance

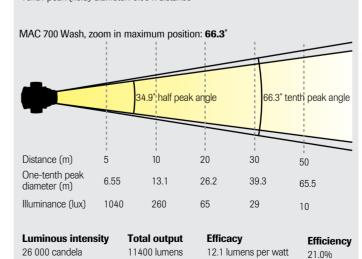


Luminous intensity	Total output	Efficacy	Efficience
71 000 candela	18700 lumens	19.9 lumens per watt	34.6%

Half-peak (beam) diameter: 0.51 x distance Tenth-peak (field) diameter: 0.93 x distance

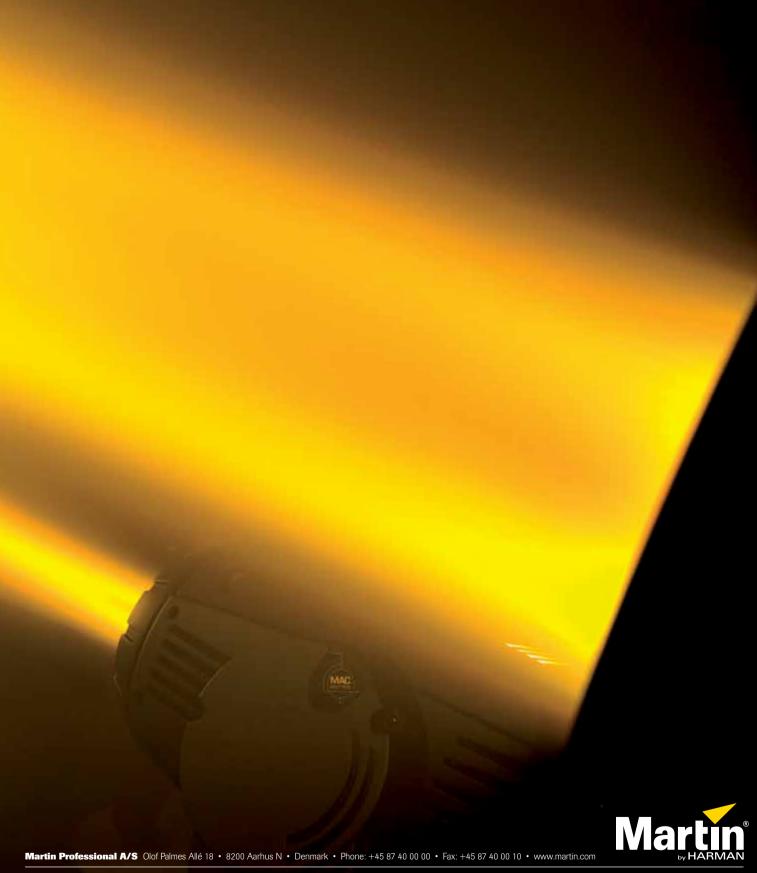
Half-peak (beam) diameter: 0.63 x distance

Tenth-peak (field) diameter: 1.31 x distance



Photometric data is available from www.martin.com/service





About Martin by Harman

As a world leader in the creation of dynamic lighting solutions for the entertainment, architectural, and com-As a world leader in the creation of dynamic ingiting solutions for the entertainment, architectural, and com-mercial sectors, Martin lighting and video systems are renowned the world over. Martin affects a range of advanced lighting controllers and media servers, as well as a complete line of smoke machines as a complement to intelligent lighting. Martin operates the industry's most complete and capable distributor network with local partners in nearly 100 countries. Founded in 1987 and based in Aarhus, Denmark, Martin is the lighting division of global infotainment and audio company HARMAN International Industries.

HARMAN (www.HARMAN.com) designs, manufactures and markets a wide range of audio and infotainment solutions for the automotive, consumer and professional markets – supported by 15 leading brands, including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon® and Mark Levinson®. The Company is admired by audiophiles across multiple generations and supports leading professional entertainers and the venues where they perform. More than 25 million automobiles on the road today are equipped with HARMAN audio and infotainment systems. HARMAN's highly competent workforce is employed across the Americas, Europe and Asia.

For more information please visit











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