

Product Catalog

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WORLD'S LEADING MUSEUM SHOWCASE LIGHTING COMPANY



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INTRODUCTION TO FIBER OPTICS

"For internal lighting of display cases, the most sustainable, maintainable, preventive conservation solution is a combination of LED light source with fiber optic light guides in the case." The RP-30 (ANSI recommended practice), which is the standard for American museums.

The Luxam lighting philosophy is to enhance the beauty and story of the object while respecting its conservation requirements, and for the lighting to have the ability to adapt to the needs of the display over time.

The Luxam Micro Fiber Optic System enables each object to benefit from an individual lighting that puts forward its details, color, textures, and its organic differences. Our concept makes it possible to rigorously control the visual ergonomics (multiple levels of lighting, reflections, and highlights) offering an optimal perception of objects and text for the observer.

Fiber optics are still the only way to avoid heat and electricity to enter the case. Our miniature optical terminals are easily hidden from visitors. The LED illuminators are installed outside of the case avoiding any problems of obsolescence due to the evolution of the LED and ensuring that every system benefits from the latest technology available.

This 'obsolescence proof' system will technically match the expected life of the display case.

Fiber Optic system is the best long-term investment for museums when looking at a 10, 20, 30-year period. The only part that would require changing are the illuminators, and each illuminator can enable up to 24 spots of lights. Many of our museum partners change out all their illuminators after 10-15 years and immediately have the best of the latest technology and color rendering, at a fraction of the cost that it would be to replace an entire system.





HOW THE LUXAM FIBER SYSTEM WORKS

The Fiber system is very simple and has 3-4 elements to consider depending on the system chosen. Each system is individually chosen and manufactured depending on the needs of the display cases and the artifacts housed within them.

The variables to consider when picking the right system for you:

1. What type of lighting would be best: Spotlights or Lightsticks

Optics will offer a highly precise and contrasted lighting especially useful to illuminate rounded and 3D objects. Lightsticks will offer an even linear lighting best suited to books and texts.

2. The Illuminator - We currently have 7 types of illuminators – traditional illuminators with onboard dimmers, DMX compatible, and two interactive illuminators.

3. The best attachment solution for each option: grid, bars, towers, or different lighstick options. (More info in the following pages)



Illuminator







What to consider when choosing a Fiber Optic System:

1. The Illuminator: Do you need a simple system with onboard dimming, one that is DMX compatible, or an interactive option when various lights can be controlled separately? We currently have 7 types of illuminators. (More info from page 18)

2. The Optic size – We have 3 sizes: Nano, Micro, and Mini. The Micro Optic size is by far the most common and practical – it can light the smallest of the object as well as full medieval gowns. All options come with an extensive range of accessories.

3. The Bundle size – There are three aspects to a bundle: size of the fiber, number of strands, and length of each strand. The size of the optics will determine the millimeter of the fiber, which will determine the max number of fibers you can have per bundle. For example, the micro-optics use 2mm fiber and you can have up to 24 strands per bundle. As each bundle is custom made there are a multitude of options. We do not recommend for strands to be more than 7 meters long



FIBER BUNDLE SPECIFICATIONS

SPECIFICATIONS

Active Diameter	1.5mm	2.0mm	3.0mm	4.0mm	5.0mm
Outside Diameter	2.0mm	2.8mm	6.0mm	7.0mm	8.0mm
Minimum 90° Turning Radius	20mm (3/4")	40mm (1/75")	50mm (2")	60mm (3")	65mm (4")
*Optimal Fibers/Connector	30	24	20	12	4

TYPICAL FIBER BUNDLES W/ ORDER CODE

Bundle 1.5 x 24 x 3	1.5mm x 24 tails x 3 meters, to common connector
Bundle 2 x 16 x 3	2.0mm x 16 tails x 3 meters, to common connector
Bundle como 1.5 x 10 x 3 + 2 x 10 x 3	Combo 20 trails, 10 x 1.5mm and 10 x 2 x 3 meters to common connector
Bundle 3 x 12 x 4	3.0mm x 12 tails x 4 meters, to common connector

Custom Fiber bundles of any length and combination of diameters available as standard order.

Maximum tail length for optimal performance is recommended to be less than 20'.





FIBER OPTIC MICROTOWERS

Self supported fiber optic Micro towers are for most vertical applications.

This flexible system uses pins that can be adjusted to provided the desired focus according to the objects. For Vitrines and Four-Sided viewing when you cannot attach the lighting to the casework sides. Mounting options include a flange mount for the base and/or ceiling.





LUXAM

FIBER MICRO OPTIC PHOTOMETRICS MICRO FIXTURE 5 DEGREES (55-207) WITH 2MM FIBER

55-207_5° Open Intensity Level (lux)

Illuminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5m
20W 300k	1328	332	148	83	53
30W 300k	1536	384	171	96	61
45W 300k	1960	490	218	123	78

55-207_55° Open Intensity Level (lux)

Illuminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5m
20W 300k	108	27	12	7	4
30W 300k	120	30	13	8	5
45W 300k	156	39	17	10	6

55-210_10° Open Intensity Level (lux)

Illuminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5m
20W 300k	1140	285	127	71	46
30W 300k	1284	321	143	80	51
45W 300k	1736	434	193	109	69

55-210_65° Open Intensity Level (lux)

llluminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5m
20W 300k	140	35	16	9	6
30W 300k	168	42	19	11	7
45W 300k	212	53	24	13	8

Distance (m)	Lighting Spot Diameter (m)
0.5	0.04
1	0.09
1.5	0.13
2	0.17
2.5	0.22

Distance (m)	Lighting Spot Diameter (m)
0.5	0.71
1	1.43
1.5	2.14
2	2.86
2.5	3.57

Distance (m)		Lighting Spot Diameter (m)
0.5	À	0.9
1	A	O.18
1.5		0.26
2		0.35
2.5		0.44

Distance (m)	Lighting Spot Diameter (m)
0.5	1.07
1	2.14
1.5	3.22
2	4.29
2.5	5.36





FIBER OPTIC LIGHTSTICKS

Fiber Optic Lightsticks are the linear expression of fiber optic lighting. They are designed to illuminate two-dimensional surfaces with an even spread of light.



SPECIFICATIONS

Custom fabrication to your exact specifications
Perfect for documents, books, and text panels
Provides a show less wash of light
Uniform base light in a 3D space for small cases
Standard focus at 60° wash
Tight focus capable at 30°

Wide focus capable for vitrines at 90°

Length measurement must include Live End Cap and End Cap

LIGHTSTICK SPECIFICATIONS AND FIXATIONS

Lightstick Diameter	20mm (standard)	16mm	10mm
Lightstick length max	Up to 2.5m	Up to 1.95m	Up to 0.5m
Tail length	Up to 5m	Up to 5m	Up to 5m
Beam Angle Options	30° / 60° / 90°	30° / 60° / 90°	60°

16mm Lightstick has 40% less light because of the turn of the fiber.

ELBOW GANTRY WITH FLANGE

90° Elbow for 16 and 20mm lightsticks gantry and thrust mounting in table cases, vitrines, and wall cases. (As shown in photos pages 12 and 13)



CLAM SHELL

Base support for 16mm black 22-105 Base support for 20mm black 22-101

C-CLAMP WITH 65-103 BASE

C-clamp with surface mount 16mm – 65-502 C-clamp with surface mount 20mm – 65-503 C-clamp with surface mount 24mm – 65-504



for 16mm - 22-104

STEMS

Stems 15, 30, 60, 75, and 90 mm

C-CLAMP SIZE

code x stem length, mm Order Code example: 65-502-15



LIGHTSTICK PHOTOMETRICS

40" LIGHSTICK - 10-200-B 35W ILLUMINATOR @ 700 MA

30° light beam



60° light beam



90° light beam





LED ILLUMINATORS

Mated to our fiber optic bundle CAX2 brings the light directly to our Microfixtures inside the casework.





15-122/ 20W

SPECIFICATIONS

Max power consumption	20W
Input Voltage	190~240V AC
Input Current	1A
CRI	3000K-97
CCT	3000K
Dimmer function	Yes
Operating temp	Natural Convection
Weigh	1.24kgs / 2.75lbs
Dimensions	152mm x 81mm x 125mm

PRODUCT CODES

ССТ 3000К 15-121-3К

10-200-BP 30/35W

SPECIFICATIONS

Max power consumption	30-35W
Input Voltage	90~240V AC 60Hz
Input Current	1A
CRI	3000K - 97, 3500K - 90+, 4000K - 90+
CCT	3000, 3500, 4000
Dimmer function	Yes
Operating temp	+5° <ta<40°c< th=""></ta<40°c<>
Weigh	1.4kgs / 3lbs
Dimensions	199.5mm x 131.7mm x 98.5mm

PRODUCT CODES

CCT 3000K	10-200-B P-3K
CCT 4000K	10-200-B P-4K
CCT 3500K	10-200-BP-3.5K



10-200-BP-DMX/30/35W

SPECIFICATIONS

Max power consumption	30-35W
Input Voltage	90~240V AC 60Hz
Input Current	1A
CRI	3000K - 97, 3500K - 90+, 4000K - 90+
ССТ	3000, 3500, 4000
Dimmer function	Yes
Operating temp	+5° <ta<40°c< th=""></ta<40°c<>
Weigh	1.44kgs / 3.2lbs
Dimensions	193.6mm x 166.7mm x 98.5mm

PRODUCT CODES

CCT 3000K	10-200-BP-DMX-3K
CCT 4000K	10-200-BP-DMX-4K
CCT 3500K	10-200-BP-DMX-3.5K

LED ILLUMINATORS (AVAILABLE IN EUROPE)





SPECIFICATIONS

Max power consumption	35W
Input voltage	110-220 V
Input current	1A
CRI	3000K-97
CCT	3000k, 4000k
Dimmer function	yes
Operating temp	+5 < Ta < +40°C
Weigh	1.25kg
Dimension	191mm x 150mm x 96mm

PRODUCT CODES

CCT 3000k	15-135-3K
CCT 4000k	15-135-4K



15-145 / 45W

SPECIFICATIONS

Max power consumption	45W
Input voltage	110-220 V
Input current	1A
CRI	3000K-97
CCT	3000k, 4000k
Dimmer function	yes
Operating temp	+5 < Ta < +40°C
Weigh	2.5kg
Dimension	191mm x 180mm x 122mm

PRODUCT	CODES
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CCT 3000k	15-145-3K
CCT 4000k	15-145-4K



LED ILLUMINATORS - INTERACTIVE

By combining the best attributes of LED's and fiber optic delivery systems, the dynamic interactive showcase is now possible. We have two options: The 80-101 is a 24 channel illuminator with 24 LED's - each with a unique fiber strand. The 80-105 5 Port has 5 ports, each can accommodate up to 10 strands of fiber.



80-105 / 5 Port Hybrid LED Illuminator

SPECIFICATIONS

5 channels/ DMX dimming capable
5 channel of control via PC console for timed transitions
Remote location keeps out heat and electric power inside the display
Stream content directly to visitor per sonal devices
Wireless transmission to mobile server to modify on the fly
Max power consumption: 35W
Input Voltage: 90-240V AC
Input Current: 1A
CCT: 3000K or 4000K
Max operating temperature: +5° to 40°C
Use: For Indoor use only, IP20

Dimensions: 440mm*155mm*65mm



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INTEGRATING IN DISPLAY CASES

After decades lighting display cases around the world, it's undeniable that integrating lighting systems within the original designs of the cases is the best way for lighting to 'disappear' while enabling objects to shine.

Integrating lighting correctly is a collaboration between the designers, fabricators, curators, and lighting provider. We are happy to provide counsel taking our experience of lighting thousands of cases worldwide from the very beginning of a project.

Our optics attach on 6mm rods and grid tops made of 6mm rods, there are also recessed options, single strand options etc

Some specifics to bear in mind:

• Grid Tops need 4 inches between the grid and the ceiling to move the fiber around. Ceiling should always be painted black.

• 6mm rods need to be at least 2 inches from the wall to give enough bend radius for the fiber to turn and affix to optics (for 2mm fiber – more for larger fibers).

• Making sure the lighting will have the angles needed – looking at depth, placement of objects.



INSTALLATION AND FOCUS

Luxam fiber optic lighting requires more diligence during installation than standard wash lighting. Each individual fixture is focused onto objects mounted within the casework. Our expert focusers have been trained in the Luxam system and are lighting experts – making sure that the final focus of the lighting is done to the highest standard.

Our teams have been called in to do one case or worked for months to do the display lighting of entire museums.

For best museum quality results, we recommend our personnel do a final focus.

We are always happy to train on site teams who will care for the maintenance of the cases.

THERE ARE THREE STAGES OF INSTALLATION:

1. BASIC FITTING - The fibers or Lightsticks are installed into the cases. No optics are fitted to the tail ends and no tails are being fixed into position.

2. FIRST FIX - The Lightsticks or fibers are placed, directed, and fixed into position to give a wash over the artifacts. They are fixed into position at regular intervals and directed towards the interior of the case. The purpose and result of this stage is to have the lights on in the case.

3. FINAL FOCUS - In this stage, which is always taking place in cooperation with the curator, the lights are directed from the interior to the artifact. Final focus requires the objects and all labels to be in their final position within the case prior to our work beginning.









FIBER OPTIC SYSTEMS CATALOGUE



LUXAM

MICRO-FIXTURES



55-101

10° micro-fixture, stirrup mount



55-201

10° micro-fixture, staple mount for Ø.4" (10mm)



55-202

5° micro-fixture, staple mount for 0.4" (10mm)



55-203 5° micro-fixture, staple mount for 0.63"



55-204 5° micro-fixture, staple mount for 0.8″ (20mm)



55-205

5° micro-fixture, stirrup mount



55-542

5° micro-fixture with front focalisation, staple mount for .63"



55-543

5° micro-fixture with front focalisation, staple mount for .8"



55-545

10° focusable micro-fixture, staple mount for 0.4" (10mm)



55-548

5° micro-fixture with front focalisation, stirrup mount



55-549

10° focusable micro-fixture, stirrup mount



55-210

10° micro-fixture, staple mount for 0.24"



55-207 5° micro-fixture, staple mount for 0.24"









55-304 10° micro-fixture, staple mount for 0.8″



55-535

5° micro-fixture with front focalisation, staple mount for .24"



55-541

 5° micro-fixture with front focalisation, staple mount for .4"

FRAMING MICRO-PROJECTORS



55-430

Framing micro-projector, staple mount for 0.4(10mm), V-shaped blades.



55-431

Framing micro-projector, staple mount for 0.63"



55-432

Framing micro-projector, staple mount for 0.8"

55-433

Framing micro-projector, stirrup mount, V-shaped blades.



55-435

Framing micro-projector, staple mount for 0.24"



MODULAR MICRO-COMPONENTS



55-100

10° micro optic head



60-400

Mini fixture body for 20°/35° lens (reference 60-320), surface mount

Mini fixture body for 20°/35° lens (reference 60-320),



55-120

5° micro optic head



55-405

0.4(10mm) micro-optic head/ 10° for micro-fixture body



55-406

Micro-optic head/5° with double focusing device



55-505

Micro-fixture body without 0.4(10mm) optic head, stirrup mount



55-510

Micro-fixture body without 0.4(10mm) optic head



60-311

25°/35° mini optic head assembly



60-312

10° mini optic head assembly



through pannel mount

60-410



60-415

Mini fixture body for 20°/35° lens (reference 60-320), staple mount on 0.24" tube

60-420

Mini fixture body for 20°/35° lens (reference 60-320), staple mount on Ø.4" tube

MICRO-FLEXIBLES



55-404

10° micro-optic head for 06mm microflexible tube



55-402

09mm micro-head without optic for 06mm micro-flexible tube



55-545

10° focusable micro-fixture, staple mount for 0.4" (10mm)

FILTER ACCESSORIES



55-433

Framing micro-projector, stirrup mount, V-shaped blades.



55-430 Framing micro-projector, staple mount for 0.4(10mm), V-shaped blades.



55-505

Micro-fixture body without 0.4(10mm) optic head, stirrup mount



55-510 Micro-fixture body without 0.4(10mm)

optic head

0.4(10mm) micro-optic head/10° for

Micro-optic head/5° with double

micro-fixture body

55-406



65-160

focusing device

Staple mount for 0,24" and 00,4" grid with 6mm rod 70mm length

55-401 - 100

06mm micro-flexible tube for 01.5 and 02 fiber, 4"(10cm) long

55-401 - 150

06mm micro-flexible tube for 01.5 and 02 fiber, 6"(15cm) long

55-401 - 200

06mm micro-flexible tube for 01.5 and 02 fiber, 8"(20cm) long

55-401

Micro-flexible tube, per meter

55-420 Cut to length

65-260 Staple mount for 0.24" grid and 0.24 rod/

60-430-X Mini holder without lens, adjustable, magnetic mounting plate

60-310 Threaded mini holder

65-101

60-330 Mini 10° adjuster for 20°/35° optic head (60-320)

65-100 Adjustable coupler for Ø3,4,5 optic cable to Ø.24" rod

Through pannel threaded tube mount for 0.24" rod

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65-102 Staple mount for Ø.4″ grid and 0.24″ rod/

65-103 Surface mounting plate for Ø.24" rod







65-310

Magnetic mounting plate for Ø,24" rod/

65-110-25 0.24" rod. 1"

65-110-50 0.24" rod. 2"

65-110-100 0.24" rod. 4"

65-110-200 0.24" rod, 8"

65-110-300 0.24" rod, 12"

65-110-1000

0.24" rod. 39.5"

65-110-2000 0.24" rod. 79"



50-050

01,22" adustable micro-sphere, 10° optic, for .86" thick panel



50-055 01,22" adustable micro-sphere, 5° optic,

for .86" thick panel



50-107

Adjustable mini-sphere, 18°/43° optic, 0.87" for 03,4,5 optic cable, fixation by clamping on back flange



50-108

Adjustable mini-sphere, 18°/43° optic, 0.87" for 03,4,5 optic cable, fixation by 2 screws



50-116

Adjustable mini-sphere without optic, for 03,4,5 optic cable, fixation by clamping on back flange



50-117

Adjustable mini-sphere without optic, for 03,4,5 optic cable, front fixation by 2 screws



57-302 Filter holder for nano-fixtures



57-303 Barn-doors/filter holder for nano-fixtures



57-304 Nano snoot for nano-fixture



55-302 Filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117



55-303 Barn-doors/filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117



55-315

Asymmetric barndoors/filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117



55-320

Micro snoot for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117



55-325

Beveled micro snoot for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117



60-110 Filter holder for mini optic



60-115 Barn-doors/filter holder for mini optic



60-120 Mini snoot for mini optic



60-125 Beveled snoot for mini-fixture/



PHOTO CREDITS

Photo 1 (Cover)

Museum: National Air and Space Museum Exhibition Designer: Haley Sharpe Design Exhibit Fabricator: Design and Production Lighting Designer: Abernathy Lighting Display Case Focusing: LUXAM Lighting, LLC

Photo 2

Museum: Australian Museum Lighting Designer: MEGS Lighting Case Fabricator: Goppion Exhibition Designer: Aaron Maestri Heritage Architect: Design 5 Photography Credit: Rosie Hastie

Photo 3

Museum: Bavarian National Museum Display case fabritcator: Glasbau REIER Display Case Focusing: LUXAM Lighting, LLC Photography Credit: Raffael Pollak

Photo 4

Museum: Goldkammer Museum Exhibit Fabricator : Barth Lighting Designer: Pfarré Lighting Design Display Case Focusing: LUXAM Lighting, LLC

Photo 5

University of Melbourne- Old Quad Exhibition: Multivocal Exhibition Lighting and Focus: Megs Lighting Photos by Christian Capurro

Photo 6

Museum: Bavarian National Museum Display case fabritcator: Glasbau REIER Display Case Focusing: LUXAM Lighting, LLC Photography Credit: Raffael Pollak

Photo 7

Museum: National Air and Space Museum Exhibition Designer: Haley Sharpe Design Exhibit Fabricator: Design and Production Lighting Designer: Abernathy Lighting Display Case Focusing: Luxam

Photo 8

Museum: Chateau de Versailles Scenography Design: Jerome Dumoux Case Fabrication: Muevo – Museum Evolution Mounting: Aïnu Lighting Focus: LUXAM Lighting, LLC Bavarian National Museum Photography Credit: Raffael Pollak

Photo 9

Museum: RMO LEIDEN

Collection of Derek Content: Rijksmuseum voor Oudheden, Leiden Designer: Anika Ohlerich Lighting Designer: Chris Pype licht Graphic Design: Esther Devries Showcases: Glascom Film: Scheltens & Abbenes Bavarian National Museum Case Fabricator: Glasbau REIER Display Case Focusing: LUXAM Lighting, LLC Photography Credit: Mike Bink

Photo 10

Museum: QASR AL WATAN Case Fabricator: Meyvaert Photo Credit: Catalin Marin

Photo 11

Museum: QASR AL WATAN Case Fabricator: Meyvaert Photo Credit: Catalin Marin

Photo 12

Museum: National Museum of African American History and Culture Exhibit Designer: Ralph Appelbaum Associates Exhibit Fabricator: Design and Production Lighting Designer: Fisher Marantz Stone Display Case Focusing: Design and Production Photography: Alan Karchmer, Alex Jamison, Eric Long courtesy of NMAAHC

Photo 13

Musée de la Chasse et de la Nature, Paris Scenography/Museography : Scénos-Associés Display Case Light Focus: LUXAM Lighting, LLC Fondation François Sommer Painting of Dioramas: François Malingrey Photographer: Béatrice Hatala

Photo 14 and 15

Display case focus installation at Versailles and National Bavarian Museum

Photo 16

Cover: Museum: National Museum of US Army Exhibit Fabricator: Design and Production Case Fabricator: Meyvaert Lighting Designer: Available Light Exhibition Track and Lighting: LSI Display Case Lighting and Focusing: LUXAM Lighting, LLC Photography Credit: ©2020 Duncan R. Millar / Design and Production Incorporated.

Photo 17

Museum: Musée de l'Armée, Paris, France Photo credit: Anton Obshta

Photo 18

Tiffany case at the LUXES exhibit at the Musée des Art Décoratifs de Paris, France Photo credit: Martina O'Shea

REFERENCES

NORTH AMERICA

Academy Museum of Motion Pictures, CA Alabama State Archives, Montgomery, AL American Museum of Natural history, NY Appomattox Court House Museum, VA Armenian Museum of America, MA Autry Museum of the West Babe Ruth Birthplace, MD Bank of Canada Museum, ON, Canada Boston Fine Art, Boston, MA Carnegie Museum of Natural History, PA Carnegie Museum of New Hampshire, NH Central Synagogue, Manhattan, NY Chicago History Museum, IL Chicago Museum of Science and Industry, Chicago, IL Cincinnati Art Museum, OH Cleveland Museum of Natural History, OH Collier County Museum, FL Cranbrook Institute, MI Crystal Bridges Museum, AR Dior Exhbit, Brooklyn Museum, NY Emory University, GA Fine Arts Museum of San Francisco, CA First Division Museum at Cantigny, Wheaton, IL Ford's Theatre, DC Frazier Historical Arms Museum, Louisville, KY Frick Collection, NY George W. Bush Presidential Library, Dallas, TX Georgia State Capitol Museum, GA GIA Institute, CA Hilllwood Estate Museum, DC Jamestown/Yorktown Foundation, VA Jim Moran foundation. FL Knoxville Museum of Art, TN LSU Museum of Art, LA Marco Island Museum, FL Mariners Museum, VA Metropolitan Museum of Art, NY Mississippi Museum of Natural History, MI Mississippi Museum of Natural history, Jackson, MS Mt. Vernon Education Center, VA Museum of American Finance, NY Museum of Fine Art p Boston, MA Nantucket Whaling Museum, Nantucket, MA National Archives. DC National Air and Space Museum, DC National Civil War Museum, PA National Infantry Museum, GA National Museum of African American History and Culture, DC National Museum of American History, DC National Museum of American Indians, NY National Museum of Natural history, DC National Museum of Natural History, DC National Museum of the American Indian, DC National Museum of United States Army, VA National Museum of Women in the Arts, Washington, DC National Music Museum, SD National Portrait Gallery, DC National Postal Museum, DC New York Historical Society, NY Newseum, DC Norton Museum of Art. FL Old Conn. Statehouse, CT Peabody Essex Museum, MA Perfume Passage Foundation, Philadelphia Museum of Art, PA Philipse Manor Hall, NY Pitts Theology Library Emory University, Atlanta, GA Polk County Museum, FL Ronald Regan Presidential Library, CA Sandoway Nature Center, Delray, FL Smithsonian Libraries, DC Sports Legends Museum – Camden Yards, Baltimore, MD The Asia Society, NY

The Catholic Museum of America, DC The Cloisters, NY The Henry Ford Museum, MI The Holy Land attraction, Orlando, FL The Flight Path Museum & Learning Center LAX, CA The Library of Congress, Washington, DC The Mob Museum The White House Porcelain Collection, DC UArizona Alfie Norville Gem & Mineral Museum, AR University Conn Ballard Museum of Puppetry, CT University of Florida Harn Museum of Asian Art, Gainesville, FL US Marine Corps Museum, VA US Mint, Philadelphia, PA US Naval Academy - John Paul Jones crypt, Annapolis, MD USC - Doheny Library Treasure Room, Los Angeles, CA US Golf Association Museum Vassar College, NY Virginia Museum of Fine Art, VA Walters Art Museum, Baltimore, MD Walt Disney/ France Pavillion Epcot, FL

SOUTH AMERICA

Acheological Museum of Piura, Peru Museu Carlos Costa Pinto, Salvador de Bahia, Brasil Museum of Sacred Art, Belem, Brasil Museo de la moda, Santiago, Chile Museo de Bellas Artes, Santiago, Chile

EUROPE

Amsterdam University Library Archeological museum of Mykenae Army Museum, Bruxelles Ashmolean Museum ,Oxford Australian Memorial Monash Villers bretonneux, France Blaschka collection, Aquarium, Liége Byzantyne Museum, Athens Carolus Borromeus, Antwerpen, Belgium Faberge and Icon exhibition,Vatican Hasselt Museum, Belgium Diamond museum, Antwerpen, Belgium Faberge Exhibition, Venaria Reale, Torino Gaasbeck castle, Belgium Historische Museum, Basel Holborn museum, Bath, UK Katoenatie museum, Antwerpen, Belgium King's Library British Museum, UK La Bibliothèque Nationale, Paris Landesmuseum Emden, Germany Le Musée d'Orsay, Paris Le Musée des Antiquités Nationales de Saint Germain en Laye Manching Kelt Museum, Germany Le Musée Fragonard de Grasse Le Palais de la Découverte, Paris Les Archives Nationales, Paris Library Braunschweg, Germany Maison Rouge, Paris MAS, Antwerpen, Belgium National Bavaria Library, Munich, Germany Middelheim Museum, Atwerppen, Belgium Mineralogy Museum, Liban Musee parfum Fragonard, France Musée Borelli, France Musée de l'Armée, Invalides, France Musée de l'esclavage, Pointe a pitre, Guadeloupe, France Musee de la Chasse, France Musée de la dentelle, Calais, France Musée de la gendarmerie, Melun, France Musée de la Toile de Jouy, France Musée du Louvre, France Musée Delvaux Brussels, Belgium Musée Historique de Strasbourg, France Musée des Beaux Arts, Bruxelles Musée L Louvain la Neuve, Belgium

Musée M leuven, Belgium Museum of London Museum of Natural History, Madrid National Archeological Museum of Athens National Archeological Museum of Thessaloniki National Bavaria Museum, Munich, Germany National Museum of Iceland National Museum of Ireland 1916 Order of St John Museum, London, UK Palais Borely, Marseille, France Palais de Tokyo , Paris, France Palais de Versailles, France Petit Palais, Paris, France Pitt Rivers Museum, Oxford Preston Porcelain Museum, UK Rijks egyptian colllection Leiden Holland RMO Leiden, National Museum of Antiques, Netherlands Royal Library Bruxelles Royal Medieval Textile Museum, Burgos, Spain Saint Peter Babbey, Gent, Belgium Toy Museum, Luxembourg Valencia History Museum, Spain

ASIA

Asian Civilization Museum, Singapore Cartier & Women, Palace Museum, HK Ceramic gallery, Reference Collection, Forbidden city, Beijing Chiang Mai National Museum, Thailand Dior Exhibit National Museum of Qatar Fireboat Museum, Hong Kong Hubei history Museum, China Hunan Museum, China Indian Heritage Museum, Singapore Inner Mongolia Museum, China Louvre Abu-Dhabi, UAE National Library, Singapore National Library, Singapore National Museum of Singapore Peranakan Museum, Singapore QASR Al Watan - Abu Dhabi, UAE Shenzen Regional Museum, China Shindagha, Dubai The Chariots. The Terra Cotta Museum, Xian, China

OCEANIA

Australia Museum ,Sydney ,Australia Australian National Maritine Museum He Tohu .Wellington, New Zealand MONA, Hobart, Tasmania National Gallery of Victoria, Melbourne, Australia State Library of Victoria, Melbourne, Australia The Schrine, Melbourne, Australia TMAG, Hobart, Tasmania Univerity of Melbourne, Old Quad, Multivocal, Australia

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