LUXAM
Lighting For Museums

FIBER OPTIC SYSTEMS

Product Catalog

WORLD'S LEADING

MUSEUM SHOWCASE LIGHTING COMPANY

PHOTO 1

TABLE OF CONTENTS

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.

PHOTO 2

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PHOTO 3

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.

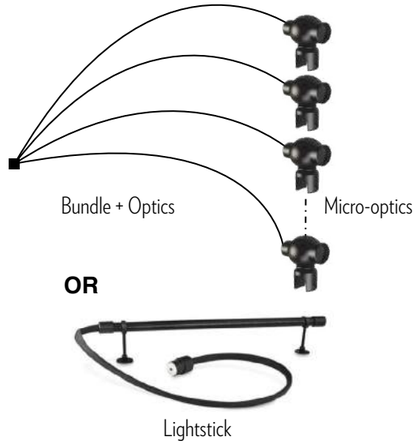
The variables to consider when picking the right system for you:

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.

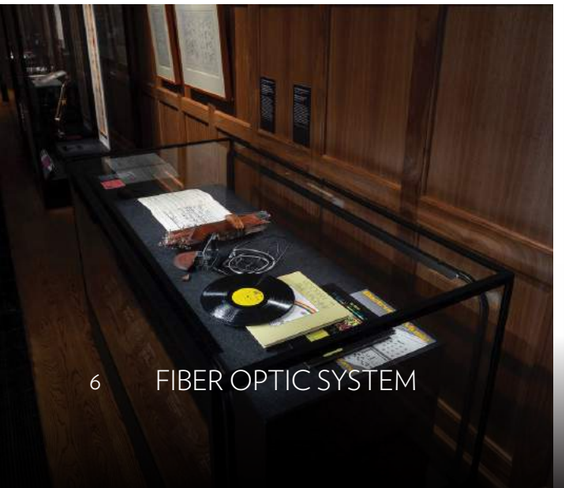
2. The Illuminator - We currently have 7 types of illuminators – traditional illuminators with onboard dimmers, DMX compatible, and two interactive illuminators.

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

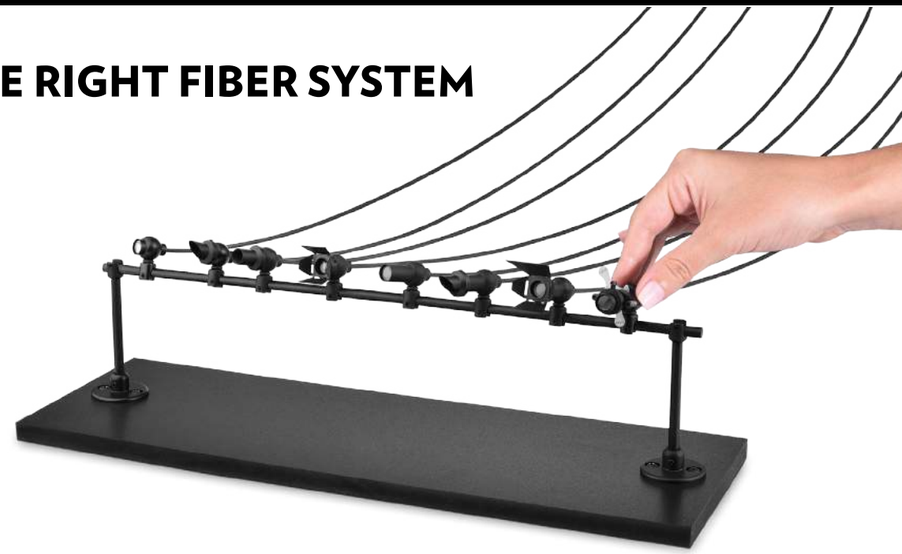
Illuminator



Lightstick



CHOOSING THE RIGHT FIBER SYSTEM



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'.

PHOTO 5

PHOTO 6

FIBER OPTIC MICROTOWERS

Self supported fiber optic MicroTowers 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.

** Note INSERTS between pins are an option to beadded and hide the fiber further.

FEATURES

- Pan & Tilt capable
- Variable spacing bet ween fixtures provides great flexability for focusing
- Standard Color: Anodinzed Matte Black - exterior extrusion can be painted
- Custom lengths to 2.5 m
- Unique triangular mount to fit tight corners
- 55-2 10 MICRO 10° : 10° to 60°
- 55-207 MICRO 5° : 5° to 50°

Adjustable Pins

Flange: 78.18mm wide

Unique triangular mount fits seamlessly into corners

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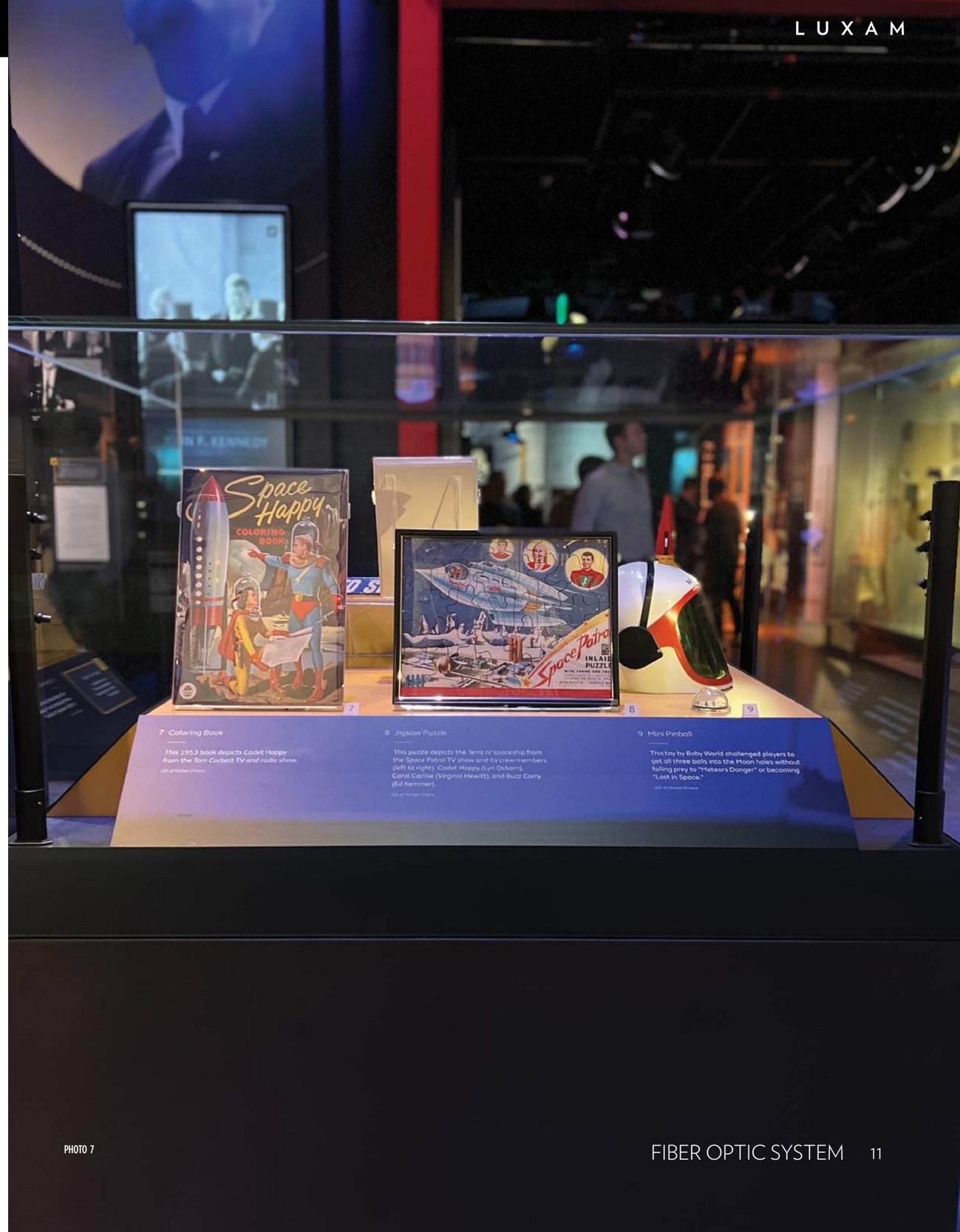


PHOTO 7

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

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

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

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

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

Distance (m)	Lighting Spot Diameter (m)
0.5	0.9
1	0.18
1.5	0.26
2	0.35
2.5	0.44

55-210_65° Open Intensity Level (lux)

Illuminator/ 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	1.07
1	2.14
1.5	3.22
2	4.29
2.5	5.36

PHOTO 8

PHOTO 9

PHOTO 10

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

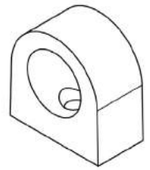
LIGHTSTICK SPECIFICATIONS AND FIXATIONS

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 16mm and 20mm for gantry and thrust mounting in table cases, vitrines, and wall cases.
To specify stick lenght for elbows - provide drawing.

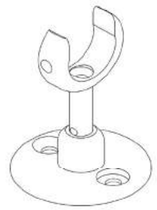


CLAM SHELL

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

VERTICAL FLANGE

- for 16mm – 22-104



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

STEMS

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

C-CLAMP SIZE

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

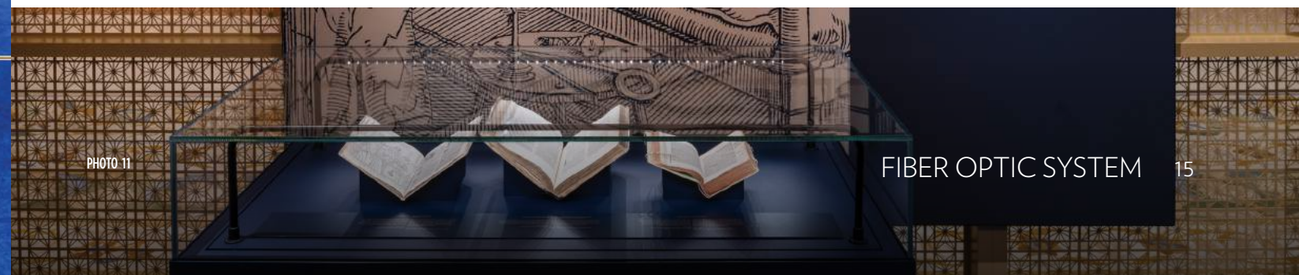
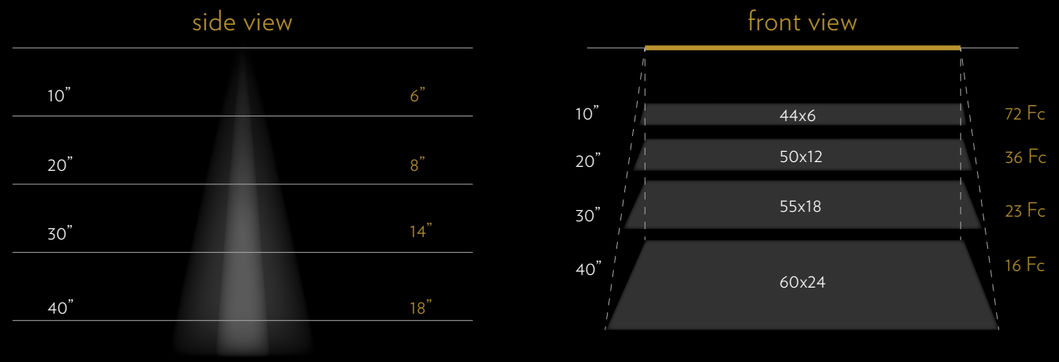


PHOTO 11

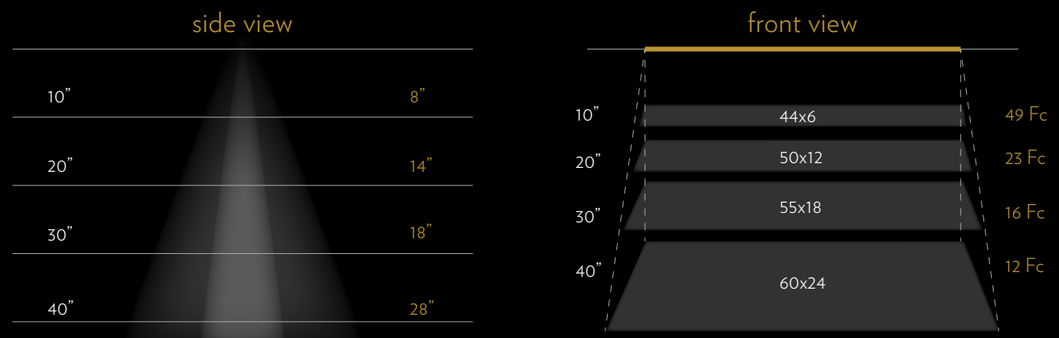
LIGHTSTICK PHOTOMETRICS

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

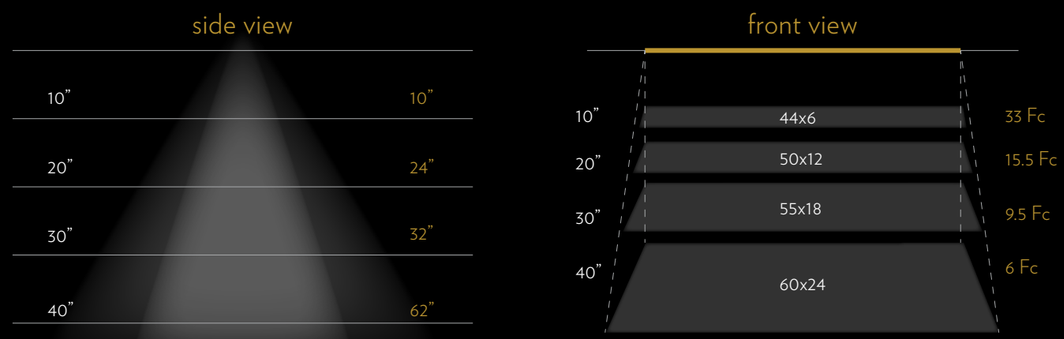
30° light beam



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
Material	Alum. Alloy / PC

PRODUCT CODES

CCT 3000K	15-121-3K

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
Weigh	1.4kgs / 3lbs
Dimensions	199.5mm x 131.7mm x 98.5mm
Material	Alum. Alloy / PC

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+
CCT	3000, 3500, 4000
Dimmer function	Yes
Operating temp	+5°<ta<40°C
Weigh	1.44kgs / 3.2lbs
Dimensions	193.6mm x 166.7mm x 98.5mm
Material	Alum. Alloy / PC

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)

15-135 / 35W

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
Material	Alum. Alloy / PC

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
Material	Alum. Alloy / PC

PRODUCT CODES

CCT 3000K	15-145-3K
CCT 4000K	15-145-4K

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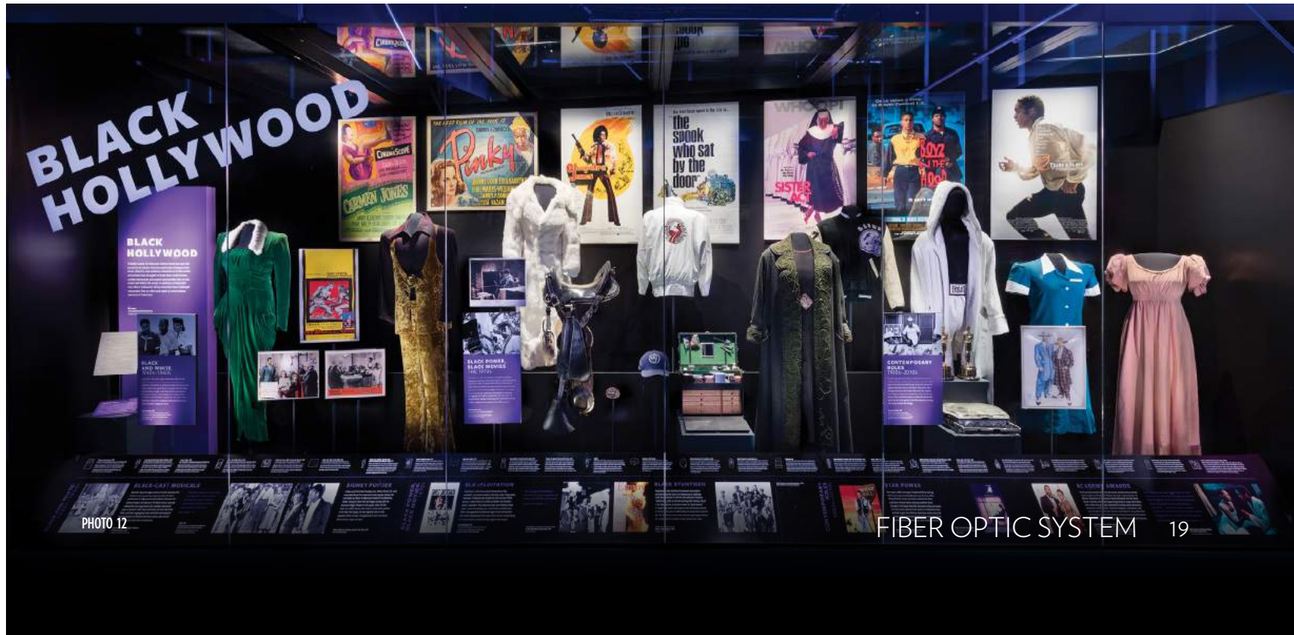
LED ILLUMINATORS - INTERACTIVE

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.

15-122/ 20W

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



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.

PHOTO 13

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:

- 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.
- 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.
- 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.

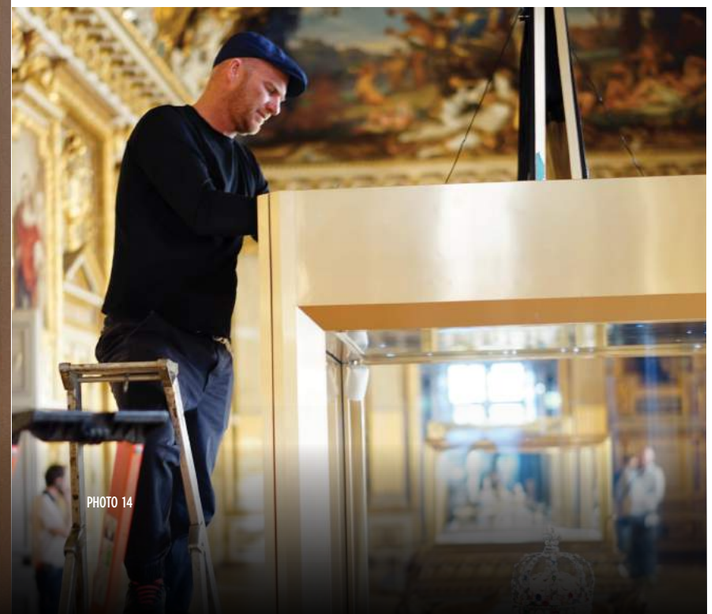


PHOTO 14

PHOTO 15

PHOTO 16

PHOTO 17

PHOTO 18

LUXAM

PART NUMBERS AND CODES

FIBER OPTIC SYSTEMS CATALOGUE

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"

55-301
10° micro-fixture, staple mount for 0.63"

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

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

60-400
Mini fixture body for 20°/35° lens (reference 60-320), surface mount

60-410
Mini fixture body for 20°/35° lens (reference 60-320), through pannel mount

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 micro-flexible 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)

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

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

55-405

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

55-406

Micro-optic head/5° with double focusing device

65-160

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

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

65-101

Through pannel threaded tube mount for 0.24" rod

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 Maritime 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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