

MUSEUM LIGHTING

Fiber Optic & LED solutions

UPDATED MARCH 2024

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INTRODUCTION

For over 25 years, Luxam has specialised in museum display case lighting. Our fiber optic and LED solutions have lit tens of thousands of priceless artifacts within cases across the globe, collaborating with many of the world's most renowned museums.

From the National Air and Space Museum to the Grand Egyptian Museum, our lighting philosophy has stayed the same; case lighting is there to help each unique artifact tell its story, while preserving it for history, and enabling museums to maintain its light for decades to come. Luxam is now coming out of cases and into spaces, our product offering organically growing with the demand and needs of our clients and partners.

"Studies suggest that among museum staff, artifact preservation is the most important issue; while artifact appearance (especially clear form and accurate color) is the most important issue to visitors. Effective museum lighting can balance both concerns. [...] Successful museum lighting should be an integral part of both the architecture and the exhibit design." RP-30 "Recommended Practice for Museum Lighting" ANSI/IES

Which is why Luxam works with museums, designers, and fabricators, from the earliest stages of design, in order to ensure the best results.



FROM CASES TO SPACES

After over 20 years as museum display case lighting specialist, Luxam is coming out of cases and into spaces.

Once our MicroLED line launched, our clients using our spotlights for low ceiling applications, and exhibit/ architectural lighting where a larger track and fixture could not necessarily be attached or was not needed. From new spaces to historical houses - the MicroLED line is the ideal solution for easy to use and quick to adjust high quality lighting.

We've therefore organically developed part of the MicroLED family with this evolution in mind, from recessed tracks, a larger 6W Spotlight, white and silver colors available, and now 6W Quadri Framing Shutter Spotlight.

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We are always listening to our clients, designers and partners to create better tools and solutions.



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MicroLED System

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MICROLED SYSTEM

The Luxam MicroLED system enables to easily set up a high quality, functional lighting, within museums and galleries. Each powerful fixture has individual adjustable beam spreads and brightness levels, making it effortless to craft a perfectly tailored light.

Within the MicroLED Family we have two systems - the MicroTrack which includes spotlights, lightbars and wall washer which go on tracks; and the MicroMono - standalone versions of the spotlights, stems and ledsticks.



MICROTRACK TRACKS

Tracks are available in 1M, 2M, and can be custom cut. Available colors are Black, White and Silver.





L-MTEC-01







L-MTFCJ-01



L-MTCTK-01



L-MTOEC-01

L-MTOSJ-01

L-MTOCJ-01 L-MTOCP-01-B



L-MTFL-01



L-MTCTK-01



L-MTFL



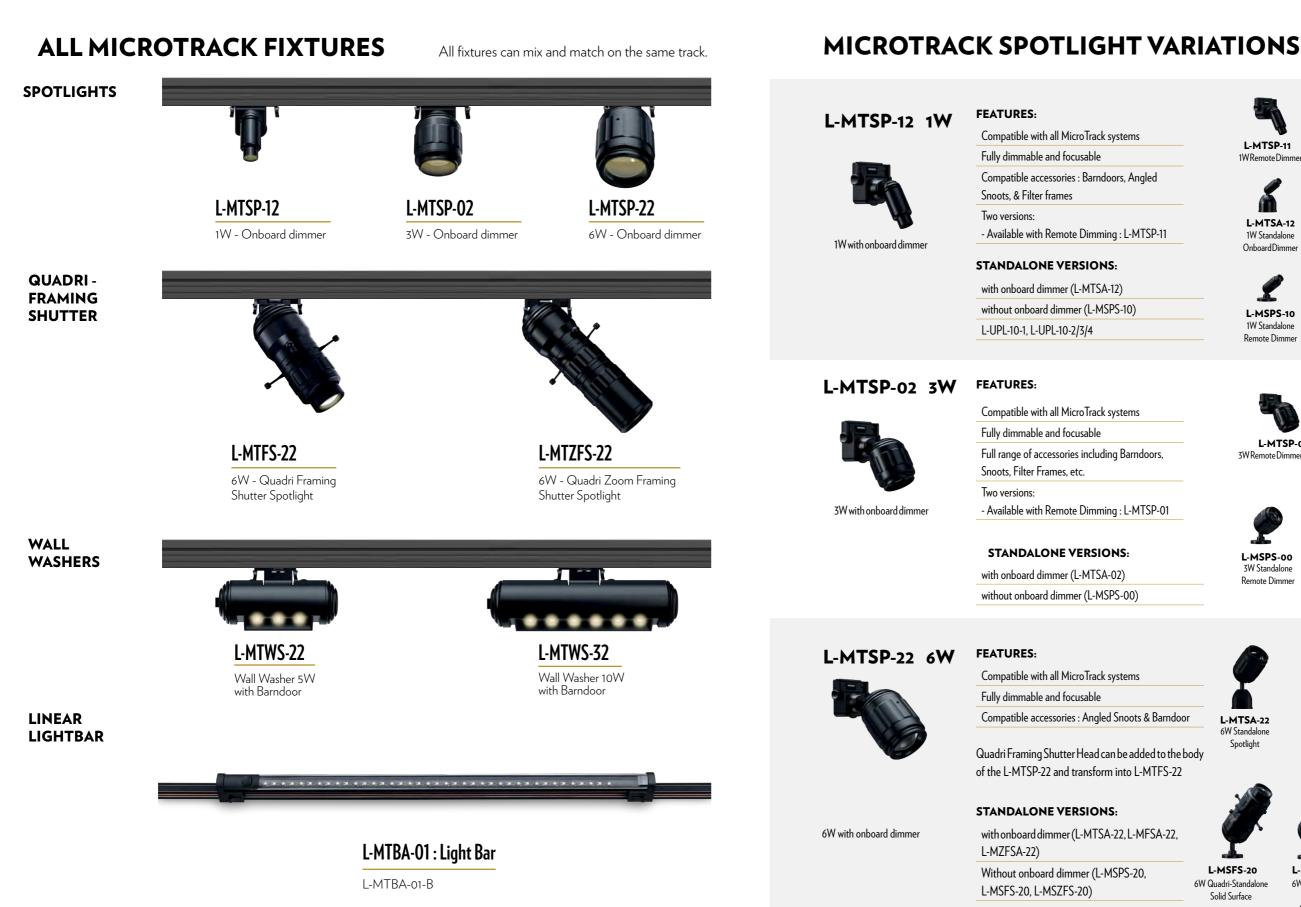






L-MTCTK-01







L-MTSP-11 1WRemote Dimme



L-MTSA-12 1W Standalone OnboardDimmer



1W Standalone Remote Dimmer





L-MSPS-00 3W Standalone Remote Dimmer



L-UPL-10-1/2/3/4 StemLights



L-MTSA-02 3W Standalone Onboard Dimmer



L-MTSA-22 6W Standalone Spotlight



L-MSFS-20 6W Quadri-Standalone Solid Surface



6W Standalone Solid Surface



L-MSZFS-20 6W Quadri-Zoom Standalone Solid Surface



6WQuadri-Standalone



L-MZFSA-22 6W Quadri-Zoom StandaloneDimmer



L-MTFS-22 6W Quadri Framing Shutter

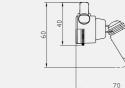


L-MTZFS-22 6W Quadri-Zoom Framing Shutter

MICROTRACK SPOTLIGHT FIXTURES









vonage/wallage	12 VDC/1.2VV
Input current	100m A
Beam angles	Zoomable 9° to 60°
Luminous flux	98 lm @RA97 / 56 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	On board Dimmer: PWM, range 0-100%
CRI	97 typ
Weight	39g
Main materials	Aluminum

Color finished	Black, White and Silver
Working temperature	10°C to 25°C
Storage temperature	Recommended 22°C
Lifespan	50000 hours
Certificates	UL, CE
Warranty	5 years
Protection	IP30
Without Onboard dimmer:	L-MTSP-11

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L-MTSP-02 3W

Voltage/wattage	12 VDC / 3.8W
Input current	340m A
Beam angles	Zoomable 8° to 56°
Luminous flux	270 lm @RA97 / 130 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	Onboard Dimmer PWM 0-100%
CRI	97 typ
Weight	84g
Main materials	Aluminum

Color finished	Black, White and Silver
Working temperature	10°C to 25°C
Storage temperature	Recommended 22°C
Lifespan	50000 hours
Certificates	UL, CE
Warranty	5 years
Protection	IP30
Without Onboard dimmer:	L-MTSP-01

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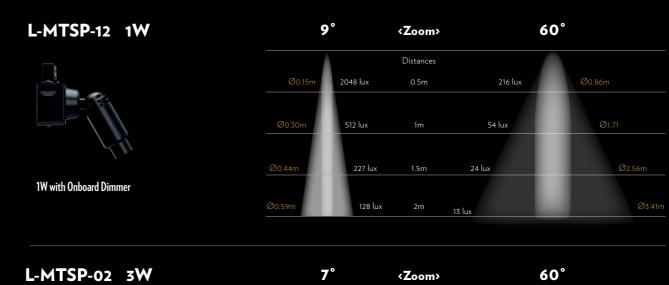
L-MTSP-22 6W

Voltage/wattage	11V-24VDC / 7.8W
Input current	650mA - 330m A
Beam angles	Zoomable 8° to 55°
Luminous flux	813 lm @RA97 / 255 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	Onboard Dimmer PWM 0-100%
CRI	97 typ
Weight	158g
Main materials	Aluminum

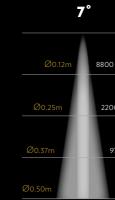
Color finished	Black, White and Silver
Working temperature	10° to 25°C
Storage temperature	Recommended 22°C
Lifespan	50000 hours
Certificates	CE
Warranty	5 years
Protection	IP30

CE

SPOTLIGHT PHOTOMETRICS

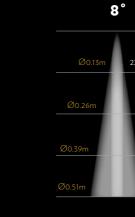








6W with Onboard Dimmer



	Distances		
00 lux	0.5m	844 lux	Ø0.61m
00 lux	1m	211 lux	Ø1.22m
977 lux	1.5m	93 lux	Ø1.83m
550 lux	2m	52 lux	Ø2.44m

	<zoom></zoom>		55°
	Distances		
57 lux	0.5m	1655 lux	Ø0.6m
90 lux	1m	414 lux	Ø1.2
2528 lux	1.5m	184 lux	Ø1.8m
1422 lux	2m	103 lux	Ø2.4m



L-MTAS-20

L-MTBD-20

L-MTFH-20





L-MTZO-22-B

L-MTQAD

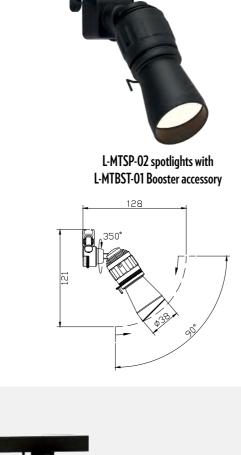




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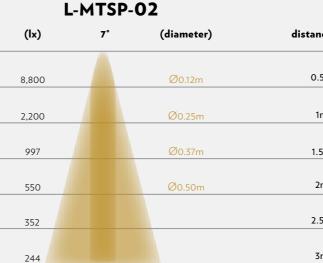
MICROTRACK ACCESSORY BOOSTER

L-MTBST-01 FOR THE 3W SPOTLIGHT

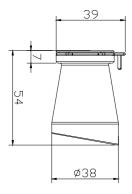












PHOTOMETRICS COMPARISON



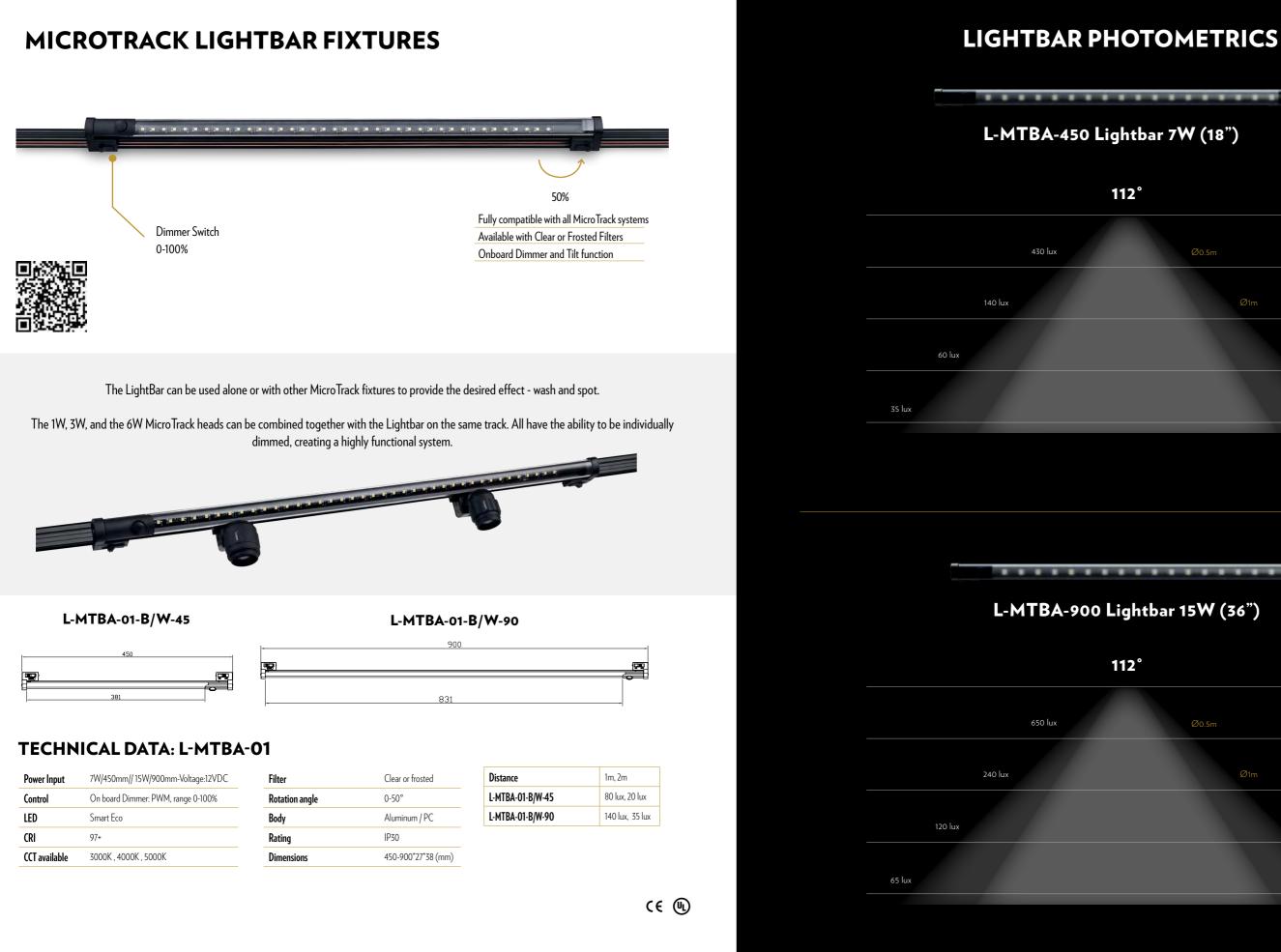
L-MTSP-02 + L-MTBST-01

tance (m)	(lx)	5°	(diameter)
0.5m	24,600		Ø0.07m
	24,000		
1m	6,150		Ø0.15m
1.5m	2,700		Ø0.22m
2m	1,500		Ø0.29m
2.5m	985		Ø0.37m
3m	680		Ø0.44m

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Ø0.5m	
Ø1m	
Ø1.5m	
	Ø2m

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Ø0.5m	
Ø1m	
Ø1.5m	
Ø2m	

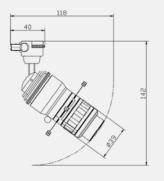
QUADRI FRAMING SHUTTER SPOTLIGHT

CE



L-MTFS-22

6W - Quadri Framing Shutter Spotlight



TECHNICAL DATA: L-MTFS-22

Voltage/wattage	11v -24VDC
Beam angle	55°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	Onboard Dimmer PWM 0-100%
CRI	97 typ
ССТ	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum

L-MTZFS-22 6W



L-MTZFS-22 6W - Quadri Zoom Framing Shutter Spotlight

CE

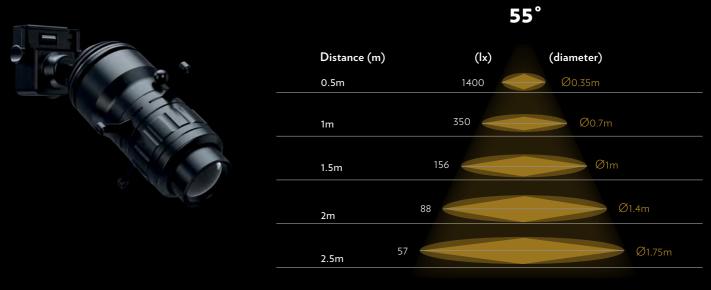
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TECHNICAL DATA: L-MTZFS-22

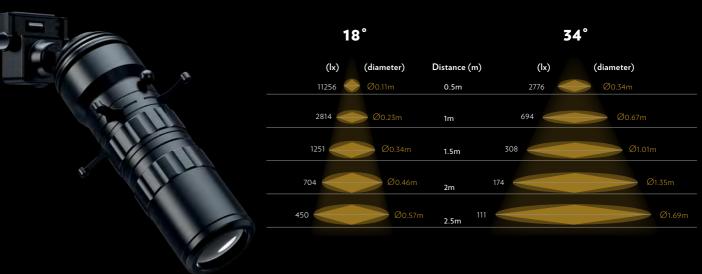
Voltage/wattage	11v -24VDC / 6W
Beam angle	15°-36°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	On board Dimmer: PWM, range 0-100%
CRI	97 typ
CCT	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum

QUADRI FRAMING SHUTTER PHOTOMETRICS

L-MTFS-22 6W

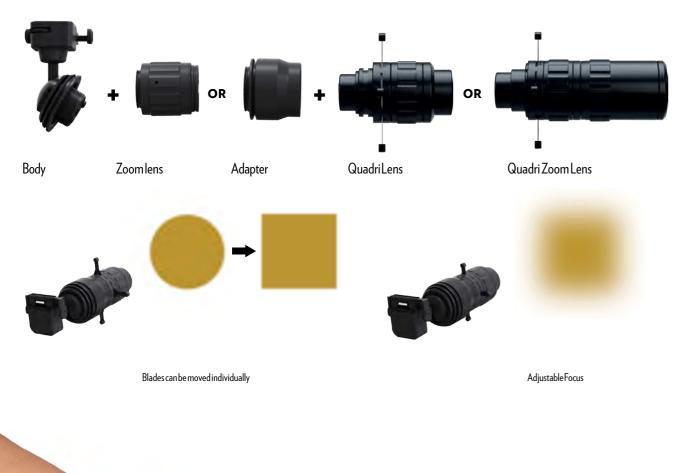


L-MTZFS-22 6W



The Quadri L-MTFS-22 and L-MTZFS-22 are Framing Shutter spotlights and work with all our MicroLED tracks.

The L-MTSP-22 6W Spotlight can transform into the L-MTFS-22 Quadri spotlight - with one body you can have either a spotlight or a framing shutter spotlight.





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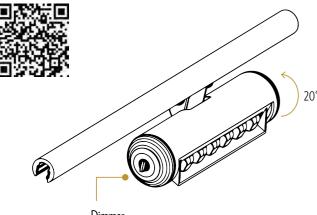
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The Power of Music

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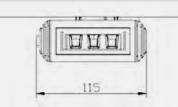
MICROTRACK WALL WASHERS



Dimmer

L-MTWS-22 5W





TECHNICAL DATA: L-MTWS-22

Power	5W
Beam angle	Washer effect
Voltage	12V DC
Input Current	410mA
Class	III
_	
Dimmer	On board Dimmer: PWM, range 0-100%
Dimmer CRI	Un board Dimmer: PWM, range 0-100% 97 typ
CRI	97 typ
CRI CCT available	97 typ 3000K , 4000K , 5000K

FEATURES:

These fixtures are designed to evenly highlight a wall from top to bottom, also used inside the showcases they light the back panels.

Fully compatible with all MicroTrack systems

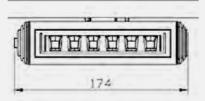
Available in Black or White

Onboard dimmer Barndoors available for both:



L-MTWS-32 10W

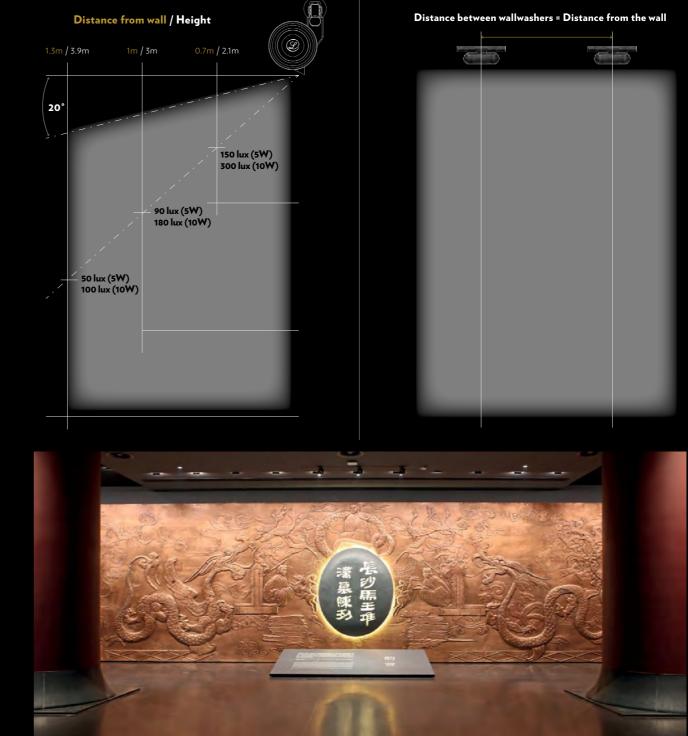




TECHNICAL DATA: L-MTWS-32

Power	10.5W
Beam angle	Washer effect
Voltage	12V DC
Input Current	860mA
Class	III
Dimmer	Onboard Dimmer PWM 0-100%
CRI	97 typ
CCT available	3000K, 4000K, 5000K
Indoor use	IP30
Material	Alum. Alloy / PC





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PHOTOMETRICS

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MICROMONO STANDALONE FIXTURES

The standalone heads are ideal when there is no possibility to use a track or when only individual lights are required.



1W - with

Onboard dimmer





L-MSPS-00

3W - Standalone

Solid Surface

L-MTSA-22 6W Standalone Spotlight

L-MFSA-22 6W Quadri-StandaloneDimmer



L-MZFSA-22 6W Quadri Zoom StandaloneDimmer



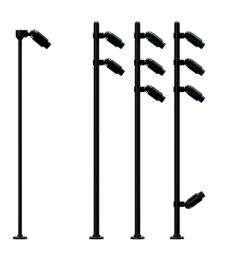
L-MSPS-10 1W - Standalone Solid Surface



L-MSPS-20 6W Standalone Solid Surface



L-MSZFS-20 6W Quadri Zoom Standalone Solid Surface



L-UPL-10-1 StemLight

L-UPL-10-2/3/4 StemLight



L-MBA-01 TALEA Ledstick Round or Square Corners



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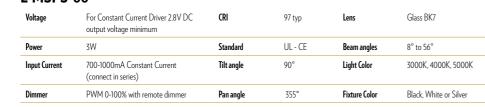
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MICROMONO STANDALONE FIXTURES

L-MSPS-10

Voltage	For Constant Current Driver 2.75 VDC	CRI	97	Lens	Glass BK7
Power	1W	Standard	UL - CE	Beam angles	9° to 70°
Input Current	300-350mA Constant Current (connect in series)	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	PWM0-100% with remote dimmer	Pan angle	355°	Fixture Color	Black, White or Silver

L-MSPS-00







L-MTSA-12

Voltage 12 VDC CRI 97 typ Le		
	Lens	Glass BK7
Power 1.2W Standard UL - CE Between	Beam angles	9° to 70°
Input Current 100mA Tilt angle 90° Li	Light Color	3000K, 4000K, 5000K
Dimmer On board Dimmer: PWM, range 0-100% Pan angle 355° Fit	Fixture Color	Black, White or Silver

L-MTSA-02

Voltage	12 VDC	CRI
Power	3.8W	Standard
Input Current	340mA	Tilt angle
Dimmer	On board Dimmer: PWM, range 0-100%	Pan angle



L-MSPS-20

For Constant Current Driver 36.2V DC output voltage minimum	CRI	97 typ	Lens	Glass
6W	Standard	UL - CE	Beam angles	8° to 55°
165mA	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmable with PMW driver	Pan angle	355°	Fixture Color	Black, White or Silver
	6W 165mA	output voltage minimum Standard 6W Standard 165mA Tilt angle	output voltage minimum Standard UL - CE 165mA Tilt angle 90°	output voltage minimum Standard UL - CE Beam angles 6W Standard UL - CE Beam angles 165mA Tilt angle 90° Light Color





L-MTSA-22

Voltage	11V - 24VDC	CRI
Power	7.2W	Standard
Input Current	650mA - 330m A	Tilt angle
Dimmer	On board Dimmer: PWM, range 0-100%	Pan angle



L-MSFS-22

Voltage	For Constant Current Driver	CRI	97 typ	Lens	Glass BK7
Power	6W	Standard	UL - CE	Beam angles	55°
Input Current	170mA Constant Current (connect in series)	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	Dimmable with PMW driver	Pan angle	355°	Fixture Color	Black, White and Silver



L-MSZFS-20

Voltage	For Constant Current Driver 36V DC output voltage minimum	CRI	97 typ	Lens	CV
Power	6W	Standard	UL - CE	Beam angles	15°-36°
Input Current	170mA Constant Current (connect in series)	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	Dimmable with PMW driver	Pan angle	355°	Fixture Color	Black, White or Silver





Voltage	11V - 24VDC	CRI
Power	6W	Standard
Input Current	650mA - 330m A	Tilt angle
Dimmer	On board Dimmer: PWM, range 0-100%	Pan angle



L-MZFSA-22

Voltage	11v -24VDC	CRI	97 typ	Lens	CV
Power	6W	Standard	UL - CE	Beam angles	15°-36°
Input Current	650mA - 330mA	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	On board Dimmer: PWM, range 0-100%	Pan angle	355°	Fixture Color	Black, White and Silver



97 typ	Lens	Glass BK7
UL - CE	Beam angles	8° to 56°
90°	Light Color	3000K, 4000K, 5000K
355°	Fixture Color	Black, White or Silver



97 typ	Lens	Glass BK7
UL - CE	Beam angles	8° to 55°
90°	Light Color	3000K, 4000K, 5000K
355°	Fixture Color	Black, White and Silver

97 typ	Lens	Glass BK7
UL - CE	Beam angles	55°
90°	Light Color	3000K, 4000K, 5000K
355°/90°	Fixture Color	Black, White and Silver





MICROMONO STANDALONE STEM FIXTURES

L-UPL-10-1 STEM1



Stem 1 comes with a 6mm rod with adjustable heights

L-UPL-10-2/3/4



Stem 2/3/4 heads comes with a 10mm rod with ajustable height.

FEATURES:

STEM 1 has a single stationary 1W spot light Full range of accessories - Barndoors, Snoots, Filter frame, etc. Stem 1 comes with a 6mm rod with ad justable heights Focusable from 10° to 60° Standard height: 30cm



TECHNICAL DATA : L-UPL-10-1

Voltage/Wattage	For Constant Current Driver 2.8 VDC output voltage minimum
Input Current	300-350mA Constant Current (connect in series)
Beam angles	9° to 70°
Dimmable options	Dimmable with PMW driver
CRI	97 typ
CCT	3000K, 4000K, 5000K
Main materials	Aluminum Alloy / PC
Color Definition	Black, White and Silver
Certificates	UL - CE
Warranty	5 years
Protection	IP30

FEATURES:

Choose between 2, 3, or 4 1W heads - standard or custom heights available Full range of accessories - Barndoors, Snoots, Filter frame, etc. Fixed on a 10mm bar Focusable from 9° to 60°



Standard height: 40cm - Long option: up to 90cm stem

TECHNICAL DATA : L-UPL-10-2/3/4

Voltage/Wattage	For Constant Current Driver 5.6/8.4/11.2 VDC output voltage minimum
Input Current	600-700mA/900-1050mA/1200-1400mA Constant Current
Beam angles	9° to 70°
Dimmable options	Dimmable with PMW driver
CRI	97 typ
CCT	3000K, 4000K, 5000K
Main materials	Aluminum Alloy / PC
Color Definition	Black, White, Silver, Gold
Certificates	UL - CE
Warranty	5 years
Protection	IP30



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TALEA LEDSTICK

L-MBA-01: TALEA LEDSTICK with ADJUSTABLE BARN DOOR

Unique adjustable barndoor feature. Barndoor can be removed and can be adjusted in order to control the beam spread 30-120° degrees.

FEATURES:

450

Available in 1M, 1.5M and 2M in length
12V input with 15, 23 and 30W output
CCT available in 3000K, 4000K, or 5000K
Standard color is Black Anodized
Adjustable 30-120* degree clean cut Beamspread
Adjustable height 5cm - 2m
Clean cut Beamspread
Adjustable height 5cm - 2m

TECHNICAL DATA : L-MBA-01

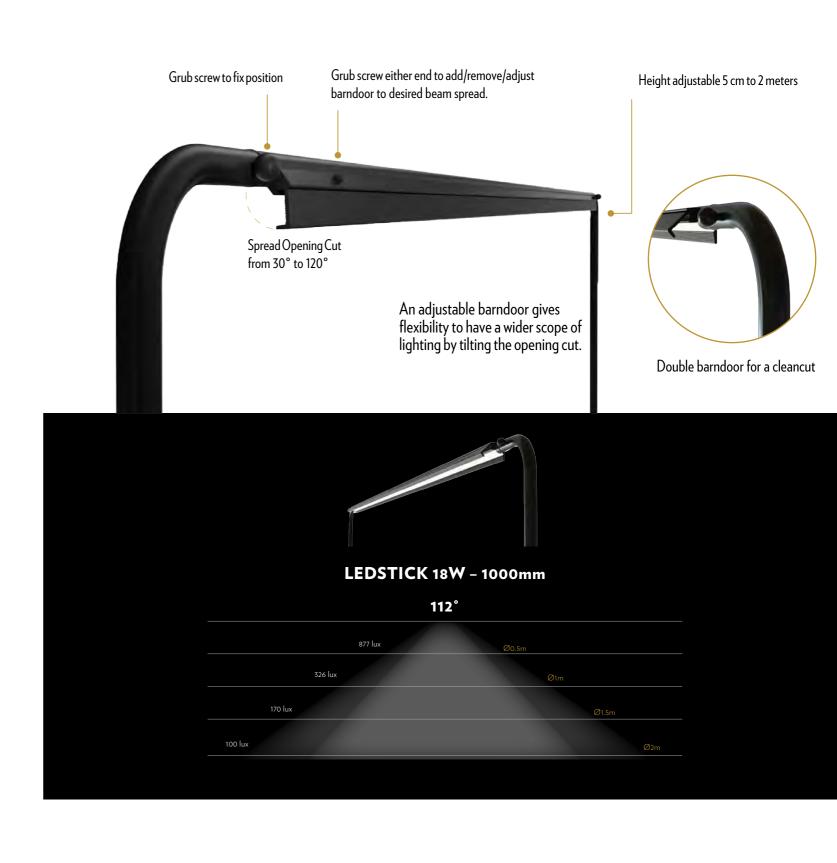
Voltage/Wattage	12 VDC
Input Current	1000mA/meter
Beam Angles	90°
Pan	355°
Dimmable Options	Dimmable with PMW driver
CRI	97+
CCT	3000K, 4000K, 5000K
Main Materials	Aluminum
Color Definition	Black, White, Silver, Gold
Certificates	UL - CE
Warranty	5 years
Protection	IP30



Two options: Round or Square corners

L-MBA-01-SQ

L-MBA-01-R







MICROLED SYSTEM **ORDER CODES**

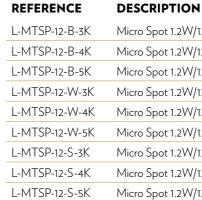


MICROSPOT 1W

MICROSPOT 1W

1 C

REFERENCE



REFERENCE DESCRIPTION L-MTSP-11-B-3K Micro Spot 1.2V L-MTSP-11-B-4K Micro Spot 1.2

REFERENCE

L-MSPS-10-B-3K Micro Spot Star L-MSPS-10-B-4K Micro Spot Star L-MSPS-10-B-5K Micro Spot Star L-MSPS-10-W-3K Micro Spot Star L-MSPS-10-W-4K Micro Spot Star L-MSPS-10-W-5K Micro Spot Star L-MSPS-10-S-3K Micro Spot Star L-MSPS-10-S-4K Micro Spot Star L-MSPS-10-S-5K Micro Spot Star

REFERENCE

L-MTSA-12-B-3K	Micro Spot Star
L-MTSA-12-B-4K	Micro Spot Star
L-MTSA-12-B-5K	Micro Spot Star
L-MTSA-12-W-3K	Micro Spot Star
L-MTSA-12-W-4K	Micro Spot Star
L-MTSA-12-W-5K	Micro Spot Star
L-MTSA-12-S-3K	Micro Spot Star
L-MTSA-12-S-4K	Micro Spot Star
L-MTSA-12-S-5K	Micro Spot Star

NO DIMMER

MICROSPOT 1W

MICROSPOT **STANDALONE 1W**

MICROSPOT **STANDALONE 1W** DIMMER





Z

N/12VDC, dimmer, 3000K, Black
N/12VDC, dimmer, 4000K, Black
N/12VDC, dimmer, 5000K, Black
N/12VDC, dimmer, 3000K, White
N/12VDC, dimmer, 4000K, White
N/12VDC, dimmer, 5000K, White
N/12VDC, dimmer, 3000K, Silver
N/12VDC, dimmer, 4000K, Silver
N/12VDC, dimmer, 5000K, Silver

V/12VDC, no dimmer 3000K, Black	
N/12VDC, no dimmer 4000K, Black	

DESCRIPTION

ndalone 1.2W/12VDC, 3000K, Black
ndalone 1.2W/12VDC, 4000K, Black
ndalone 1.2W/12VDC, 5000K, Black
ndalone 1.2W/12VDC, 3000K, White
ndalone 1.2W/12VDC, 4000K, White
ndalone 1.2W/12VDC, 5000K, White
ndalone 1.2W/12VDC, 3000K, Silver
ndalone 1.2W/12VDC, 4000K, Silver
ndalone 1.2W/12VDC, 5000K, Silver

DESCRIPTION

ndalone 1.2W/12VDC, dimmer, 3000K, Black
ndalone 1.2W/12VDC, dimmer, 4000K, Black
ndalone 1.2W/12VDC, dimmer, 5000K, Black
ndalone 1.2W/12VDC, dimmer, 3000K, White
ndalone 1.2W/12VDC, dimmer, 4000K, White
ndalone 1.2W/12VDC, dimmer, 5000K, White
ndalone 1.2W/12VDC, dimmer, 3000K, Silver
ndalone 1.2W/12VDC, dimmer, 4000K, Silver
ndalone 1.2W/12VDC, dimmer, 5000K, Silver

MICROSPOT 1W ACCESSORIES

BARNDOOR

	REFERENCE	DESCRIPTION
	L-MTBD-10-B	Barndoor for 1.2W Micro Spot, Black
	L-MTBD-10-W	Barndoor for 1.2W Micro Spot, White
	L-MTBD-10-S	Barndoor for 1.2W Micro Spot, Silver



DESCRIPTION
Angled snoot for 1.2W Micro Spot, Black
Angled snoot for 1.2W Micro Spot, White
Angled snoot for 1.2W Micro Spot, Silver



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R	REFERENCE	DESCRIPTION
Ŀ	-MTFH-10-B	Filter holder for 1.2W Micro Spot, Black
L	-MTFH-10-W	Filter holder for 1.2W Micro Spot, White
L	-MTFH-10-S	Filter holder for 1.2W Micro Spot, Silver



REFERENCE	DESCRIPTION
L-MTBR-10-B	Beam Reducer for 1.2W, Black
L-MTBR-10-W	Beam Reducer for 1.2W, White
L-MTBR-10-S	Beam Reducer for 1.2W, Silver

MICROSPOT 3W

MICROSPOT 3W

MICROSPOT 3W

STANDALONE 3W

NO DIMMER

REFERENCE



REFERENCE DESCRIPTION

MICROSPOT

REFERENCE DESCRIPTION

L-MSPS-00-B-3K	Micro Spot Stand
L-MSPS-00-B-4K	Micro Spot Stand
L-MSPS-00-B-5K	Micro Spot Stand
L-MSPS-00-W-3K	Micro Spot Stand
L-MSPS-00-W-4K	Micro Spot Stand
L-MSPS-00-W-5K	Micro Spot Stand
L-MSPS-00-S-3K	Micro Spot Stand
L-MSPS-00-S-4K	Micro Spot Stand
L-MSPS-00-S-5K	Micro Spot Stand

REFERENCE DESCRIPTION

L-MTSA-02-B-3K	Micro Spot Sta
L-MTSA-02-B-4K	Micro Spot Sta
L-MTSA-02-B-5K	Micro Spot Sta
L-MTSA-02-W-3K	Micro Spot Star
L-MTSA-02-W-4K	Micro Spot Star
L-MTSA-02-W-5K	Micro Spot Star
L-MTSA-02-S-3K	Micro Spot Star
L-MTSA-02-S-4K	Micro Spot Star
L-MTSA-02-S-5K	Micro Spot Sta

MICROSPOT **STANDALONE 3W**



DESCRIPTION

V/12VDC, dimmer, 3000K, Black
N/12VDC, dimmer, 4000K, Black
N/12VDC, dimmer, 5000K, Black
N/12VDC, dimmer, 3000K, White
N/12VDC, dimmer, 4000K, White
N/12VDC, dimmer, 5000K, White
N/12VDC, dimmer, 3000K, Silver
N/12VDC, dimmer, 4000K, Silver
N/12VDC, dimmer, 5000K, Silver

L-MTSP-01-B-ND-3K Micro Spot 3.8W/12VDC no dimmer 3000K, Black

dalone 3.8W/12VDC, 3000K, Black
idalone 3.8W/12VDC, 4000K, Black
idalone 3.8W/12VDC, 5000K, Black
dalone 3.8W/12VDC, 3000K, White
dalone 3.8W/12VDC, 4000K, White
dalone 3.8W/12VDC, 5000K, White
idalone 3.8W/12VDC, 3000K, Silver
idalone 3.8W/12VDC, 4000K, Silver
idalone 3.8W/12VDC, 5000K, Silver

ndalone 3.8W/12VDC, dimmer, 3000K, Black
ndalone 3.8W/12VDC, dimmer, 4000K, Black
ndalone 3.8W/12VDC, dimmer, 5000K, Black
ndalone 3.8W/12VDC, dimmer, 3000K, White
ndalone 3.8W/12VDC, dimmer, 4000K, White
ndalone 3.8W/12VDC, dimmer, 5000K, White
ndalone 3.8W/12VDC, dimmer, 3000K, Silver
ndalone 3.8W/12VDC, dimmer, 4000K, Silver
ndalone 3.8W/12VDC, dimmer, 5000K, Silver

MICROSPOT 3W ACCESSORIES

BARNDOOR	REFERENCE	DESCRIPTION
	L-MTBD-01-B	Barndoor for 3.8W Micro Spot, Black
	L-MTBD-01-W	Barndoor for 3.8W Micro Spot, White
	L-MTBD-01-S	Barndoor for 3.8W Micro Spot, Silver
SNOOT	REFERENCE	DESCRIPTION
	L-MTSN-01-B	Snoot for 3.8W Micro Spot, Black
	L-MTSN-01-W	Snoot for 3.8W Micro Spot, White
	L-MTSN-01-S	Snoot for 3.8W Micro Spot, Silver
ANGLED SNOOT	REFERENCE	DESCRIPTION
	L-MTAS-01-B	Angled Snoot for 3.8W Micro Spot, Black
	L-MTAS-01-W	Angled Snoot for 3.8W Micro Spot, White
	L-MTAS-01-S	Angled Snoot for 3.8W Micro Spot, Silver
CONE SNOOT	REFERENCE	DESCRIPTION
	L-MTSC-01-B	Cone Snoot for 3.8W Micro Spot, Black
	L-MTSC-01-W	Cone Snoot for 3.8W Micro Spot, White
	L-MTSC-01-S	Cone Snoot for 3.8W Micro Spot, Silver
		DECONDENCI
FILTER HOLDER	REFERENCE	DESCRIPTION
F	L-MTFH-01-B	Filter Holder for 3.8W Micro Spot, Black
\mathbf{O}	L-MTFH-01-W	Filter Holder for 3.8W Micro Spot, White
•	L-MTFH-01-S	Filter Holder for 3.8W Micro Spot, Silver
ARCHITECTURE	REFERENCE	DESCRIPTION
LENS	L-MTAR-01-B	Architecture Lense for 3.8W Micro Spot, Black
1	L-MTAR-01-W	Architecture Lense for 3.8W Micro Spot, White
\bigcirc	L-MTAR-01-S	Architecture Lense for 3.8W Micro Spot, Silver
~		
BOOSTER	REFERENCE	DESCRIPTION
(for the second	L-MTBST-01-B	Booster for 3.8W Micro Spot, Black



MICROSPOT 6W

MICROSPOT 6W

MICROSPOT

MICROSPOT

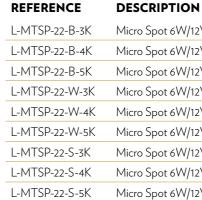
SURFACE 6W

QUADRI 6W

STANDALONE SOLID

STANDALONE **6W DIMMER**

REFERENCE



REFERENCE DESCRIPTION

L-MTSA-22-B-3K	Micro Spot Star
L-MTSA-22-B-4K	Micro Spot Star
L-MTSA-22-B-5K	Micro Spot Star
L-MTSA-22-W-3K	Micro Spot Star
L-MTSA-22-W-4K	Micro Spot Star
L-MTSA-22-W-5K	Micro Spot Star
L-MTSA-22-S-3K	Micro Spot Star
L-MTSA-22-S-4K	Micro Spot Star
L-MTSA-22-S-5K	Micro Spot Star

REFERENCE DESCRIPTION

L-MSPS-20-B	Standalone solid Black
L-MSPS-20-W	Standalone solid White
L-MSPS-20-S	Standalone solid Silver

REFERENCE DESCRIPTION L-MTFS-22-B Quadri Framing Shutter, 6W/12-24 VDC, dimmer, 3000K/4000K, Black

	White
REFERENCE	DESCRIPTIO
L-MFSA-22-B	Quadri Standalo 3000K/4000K B

L-MTFS-22-W

L-MFSA-22-W

QUADRI 6W STANDALONE



/12VDC, dimmer, 3000K, Black
/12VDC, dimmer, 4000K, Black
/12VDC, dimmer, 5000K, Black
/12VDC, dimmer, 3000K, White
/12VDC, dimmer, 4000K, White
/12VDC, dimmer, 5000K, White
/12VDC, dimmer, 3000K, Silver
/12VDC, dimmer, 4000K, Silver
/12VDC, dimmer, 5000K, Silver

dalone 6W/12VDC, dimmer, 3000K, Black
dalone 6W/12VDC, dimmer, 4000K, Black
dalone 6W/12VDC, dimmer, 5000K, Black
dalone 6W/12VDC, dimmer, 3000K, White
dalone 6W/12VDC, dimmer, 4000K, White
dalone 6W/12VDC, dimmer, 5000K, White
dalone 6W/12VDC, dimmer, 3000K, Silver
dalone 6W/12VDC, dimmer, 4000K, Silver
dalone 6W/12VDC, dimmer, 5000K, Silver

surface 6W/12-24VDC, no dimmer, 3000K/4000K

surface 6W/12-24VDC, no dimmer, 3000K/4000K

surface 6W/12-24VDC, no dimmer, 3000K/4000K

Quadri Framing Shutter, 6W/12-24 VDC, dimmer, 3000K/4000K,

N

one with integrated dimmer 6W/12-24 VDC, dimmer, Black

Quadri Standalone with integrated dimmer 6W/12-24 VDC, dimmer, 3000K/4000K White

QUADRI STANDALONE SOLID SURFACE



QUADRI ZOOM FRAMING SHUTTER



QUADRI ZOOM STANDALONE DIMMER



QUADRI ZOOM STANDALONE SOLID SURFACE



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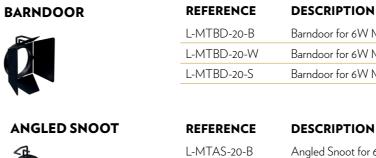
REFERENCE	DESCRIPTION
L-MSFS-20-B	Quadri Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K Black
L-MSFS-20-W	Quadri Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K White

REFERENCE DESCRIPTION L-MTZFS-22-B Quadri Zoom Framing Shutter 6W/12-24 VDC, 3000K/4000K Black L-MTZFS-22-W Quadri Zoom Framing Shutter 6W/12-24 VDC, 3000K/4000K White

REFERENCE DESCRIPTION L-MZFSA-22-B Quadri Zoom Standalone with integrated dimmer 6W/12-24 VDC, 3000K/4000K Black L-MZFSA-22-W Quadri Zoom Standalone with integrated dimmer 6W/12-24 VDC, 3000K/4000K White

REFERENCE	DESCRIPTION
L-MSZFS-20-B	Quadri Zoom 16-35 Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K Black
L-MSZFS-20-W	Quadri Zoom 16-35 Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K White

MICROSPOT 6W ACCESSORIES



L-MTAS-20-W

L-MTAS-20-S

REFERENCE DESCRIPTION L-MTLED-22-B



LED ENGINE 6W

ZOOM LENS 6W

REFERENCE L-MTZO-22-B

FRAMING SHUTTER LENS **PLUS ADAPTER**

REFERENCE L-MTQAD









DESCRIPTION

Zoom Lens 6W, Black

V Micro Spot, Black
V Micro Spot, White
V Micro Spot, Silver

Angled Snoot for 6W Micro Spot, Black
Angled Snoot for 6W Micro Spot, White
Angled Snoot for 6W Micro Spot, Silver

LED Engine 6W, 3000K/4000K, Black

DESCRIPTION

Framing shutter lens + Adapter

LIGHTBAR AND WALLWASHER

REFERENCE

L-MTWS-22-B-3K

MICROSPOT WALLWASHER 5W	

MICROSPOT WALLWASHER 10W



REFERENCE	DESCRIPTION
L-MTWS-32-B-3K	Wall washer for Micro Track, 10W - 3000K, Black
L-MTWS-32-B-4K	Wall washer for Micro Track, 10W - 4000K, Black
L-MTWS-32-W-3K	Wall washer for Micro Track, 10W - 3000K, White
L-MTWS-32-W-4K	Wall washer for Micro Track, 10W - 4000K, White

Wall washer for Micro Track, 5W - 3000K, Black

DESCRIPTION

L-MTWS-22-B-4K Wall washer for Micro Track, 5W - 4000K, Black L-MTWS-22-W-3K Wall washer for Micro Track, 5W - 3000K, White L-MTWS-22-W-4K Wall washer for Micro Track, 5W - 4000K, White





REFERENCE	DESCRIPTION
L-MTWSB-22	Barndoor for L-MTWS-22, Black
L-MTWSB-32	Barndoor for L-MTWS-32, Black
L-MTWSW-22	Barndoor for L-MTWS-22, White
L-MTWSW-32	Barndoor for L-MTWS-32, White



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REFERENCE DESCRIPTION

L-MTBA-01-B-450-3K	Micro Track LED Bar, 3000K, 450mm (18″), Black
L-MTBA-01-B-450-4K	Micro Track LED Bar, 4000K, 450mm (18″), Black
L-MTBA-01-W-450-3K	Micro Track LED Bar, 3000K, 450mm (18″), White
L-MTBA-01-W-450-4K	Micro Track LED Bar, 4000K, 450mm (18"), White
L-MTBA-01-B-900-3K	Micro Track LED Bar, 3000K, 900mm (36″), Black
L-MTBA-01-B-900-4K	Micro Track LED Bar, 4000K, 900mm (36″), Black
L-MTBA-01-W-900-3K	Micro Track LED Bar, 3000K, 900mm (36"), White
L-MTBA-01-W-900-4K	Micro Track LED Bar, 4000K, 900mm (36"), White

STEMLIGHT

REFERENCE

L-UPL-10-1-B	StemLight 1 hea
L-UPL-10-1-W	StemLight 1 hea
L-UPL-10-1-S	StemLight 1 hea
L-UPL-10-2-B	StemLight 2 hea
L-UPL-10-2-W	StemLight 2 hea
L-UPL-10-2-S	StemLight 2 hea
L-UPL-10-2-G	StemLight 2 hea
L-UPL-10-3-B	StemLight 3 hea
L-UPL-10-3-W	StemLight 3 hea
L-UPL-10-3-S	StemLight 3 hea
L-UPL-10-3-G	StemLight 3 hea
L-UPL-10-4-B	StemLight 4 hea 3000K/4000K/
L-UPL-10-4-W	StemLight 4 hea 3000K/4000K/
L-UPL-10-4-S	StemLight 4 hea 3000K/4000K/
L-UPL-10-4-G	StemLight 4 hea 3000K/4000K/

TALEA LEDBAR 10MM



REFERENCE DESCRIPTION

L-MBA-01-R-B-100	TALEA LEDB
L-MBA-01-R-B-150	TALEA LEDB
L-MBA-01-R-B-200	TALEA LEDB
L-MBA-01-SQ-B-100	TALEA LEDB
L-MBA-01-SQ-B-150	TALEA LEDB
L-MBA-01-SQ-B-200	TALEA LEDB

For more lengths and colors, please contact us.

DESCRIPTION

ead on 6mm stem - Black - 3000K/4000K/5000K
ead on 6mm stem - White - 3000K/4000K/5000K
ead on 6mm stem - Silver - 3000K/4000K/5000K
eads on 10mm stem - Black - 3000K/4000K/5000K
eads on 10mm stem - White - 3000K/4000K/5000K
eads on 10mm stem - Silver - 3000K/4000K/5000K
eads on 10mm stem - Gold - 3000K/4000K/5000K
eads on 10mm stem - Black - 3000K/4000K/5000K
eads on 10mm stem - White - 3000K/4000K/5000K
eads on 10mm stem - Silver - 3000K/4000K/5000K
eads on 10mm stem - Gold - 3000K/4000K/5000K
eads on 10mm stem - 3000K - Black - /5000K
eads on 10mm stem - 3000K - White - /5000K
eads on 10mm stem - 3000K - Silver - /5000K
eads on 10mm stem - 3000K - Gold - /5000K

BAR 10mm, 100cm, 12V / 15W, Black, Round Corners
AR 10mm, 150cm, 12V / 23W, Black, Round Corners
BAR 10mm, 200cm, 12V / 30W, Black, Round Corners
AR 10mm, 100cm, 12V / 15W, Black, Square Corners
BAR 10mm, 150cm, 12V / 23W, Black, Square Corners
BAR 10mm, 200cm, 12V / 30W, Black, Square Corners

White

50

LUXAM | Lighting for Museums

STANDARD H TRACK	REFERENCE	DESCRIPTION
	L-MTHTK-100-B	H-shape Micro Track 1 meter, Black
	L-MTHTK-100-W	H-shape Micro Track 1 meter, White
	L-MTHTK-100-S	H-shape Micro Track 1 meter, Silver
	L-MTHTK-200-B	H-shape Micro Track 2 meters, Black
	L-MTHTK-200-W	H-shape Micro Track 2 meters, White
	L-MTHTK-200-S	H-shape Micro Track 2 meters, Silver
LIVE END CONNECTOR	REFERENCE	DESCRIPTION
	L-MTEC-01-B	Live end connector for H-shape Track, Black
	L-MTEC-01-W	Live end connector for H-shape Track, White
	L-MTEC-01-S	Live end connector for H-shape Track, Silver
STRAIGHT JUNCTION	REFERENCE	DESCRIPTION
CONNECTOR	L-MTSJ-01-B	Straight junction connector for H-shape Track, Black
	L-MTSJ-01-W	Straight junction connector for H-shape Track, Whit
	L-MTSJ-01-S	Straight junction connector for H-shape Track, Silve
90° CORNER	REFERENCE	DESCRIPTION
JUNCTION	L-MTCJ-01-B	
	L-MTCJ-01-W	90° corner junction for H-shape Track, Black 90° corner junction for H-shape Track, White
	L-MTCJ-01-S	90° corner junction for H-shape Track, Silver
10 10 10	L-MIC5-01-5	20 comer junction for this hape mack, silver
90° INSIDE FLAT	REFERENCE	DESCRIPTION
CONNECTOR	L-MTFCJ-01-B	90° inside-slot Flat connector for H -shape Track
END CAP	REFERENCE	DESCRIPTION
5	L-MTCP-01-B	End cap for H-shape Track, Black
	L-MTCP-01-W	End cap for H-shape Track, White
	L-MTCP-01-S	End cap for H-shape Track, Silver
CACHE	REFERENCE	DESCRIPTION
Black	L-MTCTK-01-100-B	
DIACK	L-IVI I C I K-01-100-B	Cache for H and O Track slot / meter, Black



O-SHAPE MICRO TRACK

VERTICAL O TRACK



L-MTCTK-01-100-B Cache for H ar L-MTCTK-01-100-W Cache for H ar

EFERENCE	DESCRIPTIO
MTOEC-01-S	Live end connect
MTOEC-01-W	Live end connect
MTOEC-01-B	Live end connect
EFERENCE	DESCRIPTIO
MTOTK-300-B	O-shape Micro
MTOTK-200-S	O-shape Micro 7
MTOTK-200-W	O-shape Micro 7

REFERENCE

L-MTOTK-100-B

L-MTOTK-100-W

L-MTOTK-100-S

L-MTOTK-200-B

L-MTOSJ-01-B Straight junction L-MTOSJ-01-W Straight junction L-MTOSJ-01-S

Straight junction

DESCRIPTION L-MTOCJ-01-B 90° corner juncti L-MTOCJ-01-W 90° corner junct L-MTOCJ-01-S 90° corner junct

REFERENCE DESCRIPTION L-MTOCP-01-B End cap for O-

End cap for O-End cap for O-

DESCRIPTION REFERENCE L-MTFL-01-B Flange for O-sh L-MTFL-01-W Flange for O-sh Flange for O-sh

DESCRIPTION

O-shape Micro Track 1 meter, Black
O-shape Micro Track 1 meter, White
O-shape Micro Track 1 meter, Silver
O-shape Micro Track 2 meters, Black
O-shape Micro Track 2 meters, White
O-shape Micro Track 2 meters, Silver
O-shape Micro Track 3 meters, Black
DESCRIPTION
Live end connector for O-shape Track, Black
Live end connector for O-shape Track, White

nector for O-shape Track, Silver

ION

n connector for O-shape Track, Black
n connector for O-shape Track, White
n connector for O-shape Track, Silver

tion for O-shape Track, Black
tion for O-shape Track, White
tion for O-shape Track, Silver

shape Track, Black
shape Track, White
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pe Track, Black
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and O Track slot / meter, Black	
and O Track slot / meter, White	

R-SHAPE MICRO TRACK



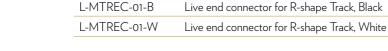
LIVE END CONNECTOR



L-MTREC-01-B	Live end connector for R-shape Track. Black
REFERENCE	DESCRIPTION
L-MTRTK-200-W	R-shape Micro Track 2 meters, White
L-MTRTK-200-B	R-shape Micro Track 2 meter, Black
L-MTRTK-100-W	R-shape Micro Track 1 meter, White

R-shape Micro Track 1 meter, Black

DESCRIPTION



REFERENCE

REFERENCE

L-MTRCP-01-B

L-MTRCP-01-W

REFERENCE

L-MTRTK-100-B





REFERENCE DESCRIPTION L-MTRSJ-01-B Straight junction connector for R-shape Track, Black L-MTRSJ-01-W Straight junction connector for R-shape Track, White





L-MTRCJ-01-B 90° corner junction for R-shape Track, Black L-MTRCJ-01-W 90° corner junction for R-shape Track, White

END CAP



White



REFERENCE DESCRIPTION L-MTCTK-01-100-B Cache for H and O Track slot / meter Black

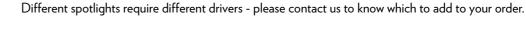
DESCRIPTION

DESCRIPTION

LINITETIK OF 100 D	Cache for frand O frack slot / frieter, black
L-MTCTK-01-100-W	Cache for H and O Track slot / meter, White

End cap for R-shape Track, Black

End cap for R-shape Track, White





LED DRIVERS 12V

REFERENCES	PRODUCT D
LPV-35-12	UL - 110/230 un
LPV-60-12	UL - 110/230 un
LPV-100-12	UL - 110/230 un

LED DRIVERS 12V - EUROPE	REFERENCES	I
LUKUPL	NPF-40	(
Con Design state and And	NPF-90	(











RDM-6W-6CH CONTROL





6 CH Driver L-CT-DMX-



DESCRIPTION

niversal output - Class 2 niversal output - Class 2 niversal output

PRODUCT DESCRIPTION

CE - 110/230 universal output CE - 110/230 universal output

PRODUCT DESCRIPTION

Picking Connector 12V/18W

PRODUCT DESCRIPTION

6 CH Driver Control

FIBER OPTIC SYSTEMS

TREEFE





on the Moon

First Spacesuit

"THAT'S ONE SM STEP FO GIANT LEAP FOR MANKIN



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 lightsource 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 24



HOW THE LUXAM FIBER SYSTEM WORKS

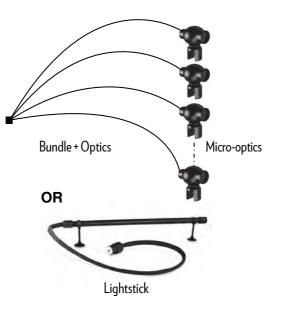
The Fiber system is very simple and has 3-4 elements to consider depending on the system chosen. Each system is individually chosen and manufactured depending on the needs of the display cases and the artifacts housed within them.

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)



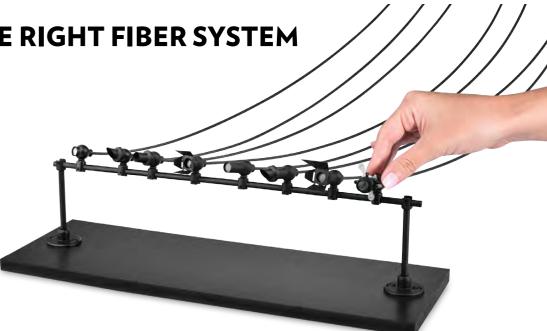
Illuminator







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' or 6m..





Please select a theme below

<u>20</u>0



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 hide the fiber further.



FIBER MICRO OPTIC PHOTOMETRICS

MICRO FIXTURE 5 DEGREES (55-207) WITH 2MM FIBER - TESTED WITH 15-135 30W ILLUMINATOR

2.5m

2.5m

55-207_5° Open Intensity Level (lux)

Illuminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5m
20W 3000k	1328	332	148	83	53
30W 3000k	1536	384	171	96	61
45W 3000k	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
20W 3000k	108	27	12	7	4
30W 3000k	120	30	13	8	5
45W 3000k	156	39	17	10	6

0.5	0.71
1	1.43
1.5	2.14
2	2.86
2.5	3.57

Lighting Distance (m) Spot Diameter (m)

55-210_10° Open Intensity Level (lux)

Illuminator/					
Distance (m)	0.5	1m	1.5m	2m	-
20W 3000k	1140	285	127	71	4
30W 3000k	1284	321	143	80	
45W 3000k	1736	434	193	109	6

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)

llluminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5n
20W 3000k	140	35	16	9	6
30W 3000k	168	42	19	11	7
45W 3000k	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





LUXAM



LUXAM | Lighting for Museums 65



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.



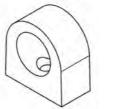
LIGHTSTICK SPECIFICATIONS AND FIXATIONS

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°
		L GL	

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

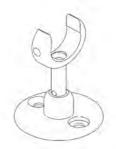
• for 16mm - 22-104



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





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

LUXAM | Lighting for Museums 67

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

30° light beam





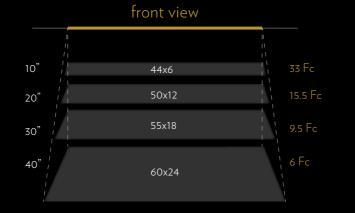
60° light beam



front view 44x6 50x12 55x18 40" 60x24

90° light beam





LED ILLUMINATORS

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

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+
ССТ	3000, 3500, 4000
Dimmer function	100% to black, local potentiometer
Operating temp	+5° <ta<40°c< th=""></ta<40°c<>
Weigh	1.4kgs / 3lbs
Dimensions	199.5mm x 131.7mm x 98.5mm
Material	Alum. Alloy / PC

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	100% to black potentiometer /DMX
Operating temp	+5° <ta<40°c< td=""></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-B P-3K
CCT 4000K	10-200-B P-4K
CCT 3500K	10-200-BP-3.5K



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)



15-122/20W

SPECIFICATIONS

Max power consumption	20W
Input Voltage	190-240V AC
Input Current	1A
CRI	3000K-98 4000k-90+
ССТ	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



LED ILLUMINATORS - INTERACTIVE

By combining the best attributes of LED's and fiber optic delivery systems, the dynamic interactive showcase is now possible. The 80-105 5 Port has 5 ports, each port can accommodate up to 10 strands of fiber.







15-135 / 30W SPECIFICATIONS

Max power consumption	30W
Input voltage	110-220 V
Input current	1A
CRI	3000K-98 4000K-90
ССТ	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

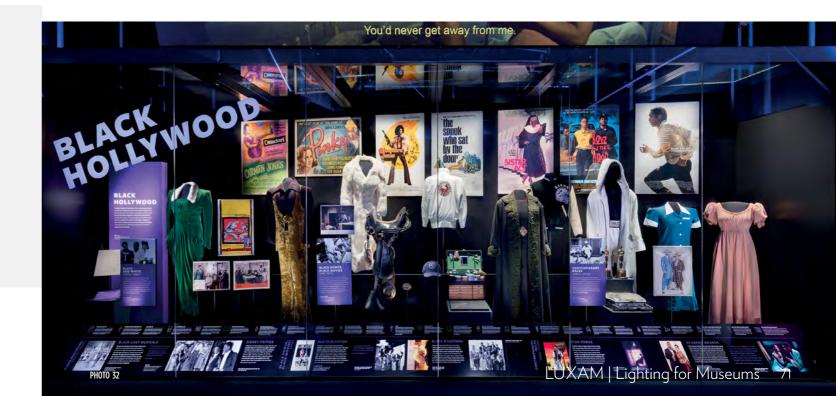
nntion 45W

Max power consumption	110
Input voltage	110-220 V
Input current	1A
CRI	3000K-97
ССТ	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





80-105 / 5 PORT HYBRID

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" or 10cm 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" or 5cm 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:

- 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 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.



fixed into position at regular intervals and directed towards the interior of the case. The purpose and result of this stage is to



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FIBER OPTIC SYSTEMS ORDER CODES

MICRO-FIXTURES



55-101

10° micro-fixture, stirrup mount

- 55-201 10° micro-fixture, staple mount for 0.4" (10mm)
- 55-202 5° micro-fixture, staple mount for 0.4" (10mm)

55-203 5° micro-fixture, staple mount for 0.63" (16mm)

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

55-205 5° micro-fixture, stirrup mount

55-210 10° micro-fixture, staple mount for 0.24" (6mm)

55-207 5° micro-fixture, staple mount for 0.24" (6mm)

55-301 10° micro-fixture, staple mount for 0.63" (16mm)

55-304 10° micro-fixture, staple mount for 0.8" (20mm)

55-535

55-541

5° micro-fixture with front focalisation, staple mount for 0.24" (6mm)

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



55-542

5° micro-fixture with front focalisation, staple mount for 0.63"(16mm)

55-543

5° micro-fixture with front focalisation, staple mount for 0.8" (20mm)

55-544

10° micro-fixture with front focalisation, staple mount for 0.24"(6mm)

55-545

10° micro-fixture with front focalisation, staple mount for 0.4"(10mm)



10° micro-fixture with front focalisation, staple mount for 0.63"(16mm)



10° micro-fixture with front focalisation, staple mount for 0.8"(20mm)





10° focusable micro-fixture, stirrup mount

FRAMING MICRO-PROJECTORS



55-430

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



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55-431

Framing micro-projector, staple mount for 0.63" (16mm)

55-432

Framing micro-projector, staple mount for 0.8" (20mm)

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

55-407 Micro-optic framing head for micro-fixture body/

55-505

55-510

Micro-fixture body, stirrup mount

55-507 Micro-fixture body, staple mount for 0.24"(6mm)







60-311 25°/35° mini optic head assembly

60-312 10° mini optic head assembly

55-547

55-548

55-549

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55-433

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



55-435

Framing micro-projector, staple mount for 0.24" (6mm)



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" (6mm) tube

60-420

Mini fixture body for 20°/35° lens (reference 60-320), staple mount on 0.4" (10mm) tube

MICRO-ACCESSORY



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



Barn-doors/filter holder for mini optic



Mini snoot for mini optic

60-115

60-125 Beveled snoot for mini-fixture

55-408

Additional V-shaped blade

55-409 Blade with 3 different hole diameters

55-410 Linear blade edge

> 55-411 Elliptic edge blade

MICRO-RECESSED



50-050 01,22" (3mm) adustable micro-sphere, 10° optic,

for 0.86" (22mm) thick panel

50-055

01,22" (3mm) adustable micro-sphere, 5° optic, for 0.86" (22mm) thick panel

50-107



Adjustable mini-sphere, 18°/43° optic, 0.87″ (22mm) for 03, 4,5 optic cable, fixation by clamping on back flange



Adjustable mini-sphere, 18°/43° optic, 0.87″ (22mm) 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



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



Adjustable micro-sphere, 10° optic, for 0.86" (22mm) thick panel

MICRO-FLEXIBLES



09mm micro-head without optic for 0.6" (24mm) micro-flexible tube



10° micro-optic head for 0.6" (24mm) micro-flexible tube



Through pannel threaded tube mount for 0.24" (6mm) rod



Staple mount for 0.4" (10mm) grid and 0,24" (6mm) rod



65-102

Surface mounting plate for 0.24" (6mm) rod

65-110-25 0.24" / 6mm rod - 1"/ 25mm

65-110-50 0.24" / 6mm rod - 2"/ 50mm

65-110-100 0.24" / 6mm rod - 4"/ 100mm

65-110-200 0.24" / 6mm rod - 8"/ 200mm

65-110-300 0.24" / 6mm rod - 12"/ 300 mm

65-110-1000

0.24" / 6mm rod - 39,5"/ 1000 mm

65-110-2000

0.24" / 6mm rod - 79"/ 2000 mm

65-160



Staple mount for 0.24" (6mm) and 0.4" (10mm) grid with 6mm rod 70mm length



55-050



B



65-140

Spacer 0.24" (6mm) - male/ female, M3, 0.4" (10mm) long



65-141

Spacer 0.24" (6mm) - male/ female, M3, 0.8" (20mm) long



Spacer 0.24" (6mm) - male/ female, M3, 2" (50mm) long



65-260

Staple mount for 0.24" (6mm) grid and 0.24" (6mm) rod



65-310

Magnetic mounting plate for 0.24"(6mm) rod

PHOTO CREDITS

Cover Photo

Museum: Peary-MacMillan Arctic Museum Bowdoin College Design and production : GSM Project Fabrication : Kubik Maltbie Lighting Design: Lightfactor Photography: Catherine Forand

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Museum: Peary-MacMillan Arctic Museum | Bowdoin College Design and production : GSM Project Fabrication : Kubik Maltbie Lighting Design: Lightfactor Photography: Catherine Forand

Photo 4

Exhibition Museum: Musée de la Toile de Jouv

Photo 5

Museum: Library of Congress Lighting Designers: Marc Roman and Dave Jung (LOC Staff) Photo Credit: Shawn Miller

Photo 6

Fames Institute Gallery Exhibit designer: Standard Issue Lighting designer: Grace Mennell Photographer: Nicholas Calcott

Photo 7

Museum: American Museum of Natural History Lighting Designer: Renfro Design Group Case Fabricator: ClickNetherfield Exhibit Designer: Ralph Appelbaum Associates Exhibit Fabricator: Kubik Maltbie Photo Credit:© Frank Oudeman/OTTO

Photo 8

Exhibition Museum: University of Arizona Museum of Art Exhibition Fabricator: Design and Production Exhibition Photo Credit: Logan Havens Exhibition Lighting Designer: Technical Artistry -Kyle Chepulis Case Fabricator: Meyvaer

Photo 9

Museum: Academy Museum of Motion Pictures Exhibition Case Fabricator: Zone Display Cases Photo: Joshua White JWPictures com Exhibition Lighting Designer: Available Light Exhibition Lighting Integrator: Clearwing System Integration

Photo 10

Credits: Museum: National Museum of American History Exhibit Designer: Reich+Petch Exhibit Fabricator: Cinnabar Lighting Designer: Available Light Lighting integrator: EOS Lightmedia Case Fabricators: Meyvaert Multimedia: Cortina Productions Ewing Cole Photo Credit: Jay Rosenblatt Photography

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Museum: National Music Museum Exhibit Design: Luci Creative Exhibit Fabrication: Ravenswood Studio Inc. Casework: Click Netherfield Showcase and Reader Rail Lighting Focus: LUXAM Media Producer: Northern Light Productions AV Integration: Electrosonic

Credits: Original Tibetan Cultural Museum Qinghai, China Photo Credit: Mathias Guillin

Photo 13

Museum: The Metropolitan Museum of Art Exhibition Fabricator: Dimensional Worldwide Exhibition Graphic Designer: Abby Chen (Met Staff) Exhibition Curators: Hannah Beachler. Michelle Commander, Sarah F. Lawrence (Met Staff), Jan Alteveer (Met Staff) Exhibition Lighting Designer: Amy Nelson (Met Staff) Exhibition Designer: Hannah Beachler, Fabiana Weinberg (Met Staff) Exhibition Production Artist: Sarah Parke (Met Staff) Photo Credit: The Metropolitan Museum of Art

Lighting designer: Valérie Bodier

Credits: Sanxingdui Museum Photo Credit: Mathias Guillin

Museum: Qatar Museums Lighting Designers: LightEmotion Photo Credit: Nelson Garrido Curated by: Olivier Gabet Designed by: Nathalie Crinière

Museum: Philipse Manor Hall Exhibit Designer: Amaze Design Exhibit Fabricator: Split Rock Studios Lighting Designer: Christensen Lighting Case Manufacturer: Zone Display Cases Photo Credit: Gilbertson Photography

Photo 18, 19, 20

Museum: Peranakan Museum Lighting Designer: Lightemotion Exhibit Fabricator: Kingsmen Photo Credit: Koh Sze Kiat Case Fabricator - Mevvaert

Photo 21

Exhibition Museum: University of Arizona Museum of Art Exhibition Fabricator: Design and Production Exhibition Photo Credit: Logan Havens Exhibition Lighting Designer: Technical Artistry -Kyle Chepulis Case Fabricator: Meyvaert

Photo 22

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 Credit: Smithsonian Institution, Jim Preston

Photo 23

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

Photo 24

Museum Goldkammer Museum Exhibit Fabricator : Barth Lighting Designer: Pfarré Lighting Design Display Case Focusing: LUXAM Lighting, LLC Photo 25 University of Melbourne- Old Quad Exhibition: Multivocal Exhibition Lighting and Focus: Megs Lighting Photos by Christian Capurro

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

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

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

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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 & Abbene Photo Credit- Mike Bink

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Museum: Chateau de Versailles Scenography Design: Jerome Dumoux Case Fabrication: Muevo - Museum Evolution Mounting: Aïnu Lighting Focus: Luxam Lighting

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Museum QASR AL WATAN Case Fabricator: Mevvaert Photo Credit: Catalin Marir

Photo 32

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 33

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 34 & 35

Display case focus installation at Versailles and National Bavarian Museum

Photo 36

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,

Photography Credit: ©2020 Duncan R. Millar / Design and Production Incorporated.

Photo 37

Curators: Dr Tamara Lewit and Dr Caroline Tully, Honorary Fellows, Classics & Archaeology Photo: Courtesy of Melbourne University & Christian Lighting Designer and Focus: MEGS lighting Exhibitor Designer: Hohab Exhibition Design Display cases: European Museum Technologies & Luxam Build: Save Projects

Photo 38

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 Moh 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'Orsav. Paris Le Musée des Antiquités Nationales de Saint Germain en Lave 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

Photo: Courtesy of Jaron Keener (edited) Photo 12

Photo 14

Project Manager: Vincent Nocelli

Photo 15

Photo 16

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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 I. Louvain la Neuve Belgium Musée M leuven, Belaium 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 collection 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, UAF 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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