# LAZ

#### OUTDOOR PROJECTION SYSTEM





#### LAZR<sup>TM</sup> by LM3X ® the original OUTDOOR PROJECTOR

Projectors installed outdoors face many challenges, such as dust, rain, humidity, varying temperature, sunlight radiation, severe weather.... you name it. LM3X projectors withstand it all. LM3X has been engineering and manufacturing outdoor projectors since 2012. We delivered 400 projection systems to more than 40 countries so far, this being the largest network of outdoor projectors in the world.

For the year 2023, we offer 2 outdoor projector models: The light and versatile L A Z R<sup>™</sup> video projector and the fully equipped L A Z R 4G<sup>™</sup> video mapping projection system for architectural illumination, light design events and for permanent outdoor installations.

With the power of 6K Lumens, each L A Z R<sup>™</sup>/L A Z R 4G<sup>™</sup> illuminates up to 100 square meters (1000 square feet) of surface. In the heart each projector glows a high quality laser DLP light source with 20 000 hours life span, enabling for long maintenance cycles.

Together, we`ll shine!

Lukáš Brus CEO

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#### Contents

#### Outdoor Projection System

Overview & Dimension Exploded View Thunderstorm Ready Operating Temperature Range Technical Specification

#### 7 Image

5

Screen Calcualtor Multiprojection Inspiration

#### 31 Installation

Recommended Set-Ups Wi-Fi Screen Sharing (not available in the USA) HDMI Short Cable HDBaseT Long Cable LIGHTFORM Mapping Kit miniMAD by Madmapper 4G Wireless Remote Mapping Multiprojection Mapping

#### 4) Accessories

Urban Pole Wall & Pole Bracket 360° Bracket Tripod for events



LM3X Products Legal Notes

# OUTDOOR PROJECTION SYSTEM

# LAZR



#### **Overview &** Dimensions



7

#### Exploded View



Two-Layer Ventilated Aluminium Shield for Landscape Image Mode

> Installation Digital Projector Laser DLP 6000 ANSI 1920 x 1200 WUXGA 20 000 hours life

Aluminium body with integrated cooling, heating and air filtering

## LAZR

## Thunderstorm Ready

Outdoor Humidity & Dust Resistance. Designed for permanent outdoor use. Projector Body IP43 Ingress Protection Certified. All connectors IP68 Ingress Protection Certified.



#### Operating Temperature Range

12



## LAZR<sup>™</sup> Outdoor Projector



#### Robust Power Management

When power lost, the device goes to sleep. The device reboots to operation mode after the power supply is restored.

#### Technical Specification

L A Z R™ DIGITAL OUTDOOR PROJECTOR

Image Projection Technology
Image Resolution
Light Source Life
Brightness
Throw Ratio
Power
Ingress Protection
Weight
Default Image Orientation
Available Image Orientation Extention

С € √кон<u>s</u>₂ Laser DLP

1920x 1200 WUXGA

20000 h

6000 ANSI Im

1.2 – 1.9

550 W, 100 - 240V

IP 43 body, IP 68 connectors

24 kg / 53 lb

Landscape Mode

Portrait Mode Kit







Η

#### Metric

W	5	6	7	8	9	10	11	12	13	14	15
m	3.13	3.75	4.38	5	5.63	6.25	6.88	7.5	8.13	8.75	9.38
D max min m	9.5 6	11.4 7.2	13.3 8.4	15.2 9.6	17.1 10.8	19 12	20.9 13.2	22.8 14.4	24.7 15.6	26.6 16.8	28.5 18.0
LUX Lumens per square metre	384	267	196	150	119	96	79	67	57	49	43

D

W

Η

0

# Screen Calculator

W ft	16.4′	19.7′	23'	26.2'	29.5'	32.8′	36.1′	39.4'	42.7'	45.9′	49.2'
<b>H</b> ft	10.3′	12.3'	14.4′	16.4'	18.5′	20.5′	22.6'	24.6'	26.7'	28.7'	30.8′
D max ft	31.2' 19.7'	37.4' 23.6'	43.6' 27.6'	49.9' 31.5'	56.1' 35.4'	62.3' 39.4'	68.6' 43.3'	74.8' 47.2'	81' 51.2'	87.3' 55.1'	93.5′ 59.1′
	384	267	196	150	119	96	79	67	57	49	43



o.4′	19.7′	23'	26.2'	29.5'	32.8′	36.1′	39.4'	42.7'	45.9′	49.2'
).3′	12.3'	14.4'	16.4'	18.5′	20.5′	22.6'	24.6'	26.7'	28.7'	30.8′
1.2' 7.7'	37.4' 23.6'	43.6' 27.6'	49.9' 31.5'	56.1' 35.4'	62.3' 39.4'	68.6' 43.3'	74.8' 47.2'	81' 51.2'	87.3' 55.1'	93.5' 59.1'
84	267	196	150	119	96	79	67	57	49	43



19



1:2 +

#### Multiprojection

You can link multiple L A Z R <sup>--</sup>4G<sup>--</sup> outdoor projectors to create a seamless outdoor projection screen of the desired size, shape, and brightness. Overlay Lux Increase +100 % Simple Array Size Increase +100 % Visible Seam



Soft Edge Blend Size Increase +95% Invisible Seam



21

Inspiration from Ostrava #cinema

而在於的關係的

provoz

CHEPONT



#### Montforthaus in Feldkirch #lightdesign





~



## National Heritage #history



# **INSTALLATION**

# $L \wedge Z R$





#### **Recommended Set-Ups**

We offer L A Z R<sup>™</sup> Outdoor Projector in 2 configurations: The basic L A Z R<sup>™</sup> is more affordable and compatible with well-known AV standards. On the other hand, the L A Z R 4G<sup>™</sup> comes with a unique set of extra features, such as Remote Acces Web UI, Mapping Scanner, and Multiprojection Wizard.

		L A Z R <sup>4G</sup>
16 900	Price EUR MSRP EXW	24 900
•	HDMI	•
•	HDBaseT	
•	3rd Party Media Player Connectivity 5V - 12V - USB - LAN - HDMI	
	4G Wireless Internet	•
	Web UI Remote Access	•
	LM3X Mapping Player	•
	Mapping Scanner	•
	Multiprojection Wizard	•
	XLR Stereo Audio Out	•



## Wi-Fi Screen Sharing

Simple, affordable, and very capable set-up for local wireless screen mirroring, photo sharing, presentations, movies, video stream, TV, music video, etc. (not available in the USA)

\*This set-up requires L A Z R<sup>™</sup> accessories: Wi-Fi Plastic Shield \*This set-up requires 3rd party accessories: Chromecast or similar device





100 - 240V ~ 550W To preserve outdoor ingress protection, use original NEUTRIK IP65 connectors.



#### **HDMI Short Cable**

use original NEUTRIK IP65 connectors.

Simple set-up compatible with a wide range of computers. Use your PC or Mac, plug-in HDMI, and play.



Mulitiprojection and edge-blending are available via an external computer with multi-HDMI graphics output and with the use of 3rd party mapping software such as Madmapper, Resolume, Watchout, etc.

\*This set-up requires an external media player

# Power HOM 100 - 240V ~ 550W To preserve outdoor ingress protection,

model required for this set-up



#### HDBaseT Long Cable

HDMI cables mentioned previously, are limited in length. In case the distance between the computer and the LAZR<sup>™</sup> projector exceeds 15 meters / 50 feet, we recommend using the HDBaseT Converter near your computer and convert the HDMI signal to an HDBaseT signal. The HDBaseT protocol allows for 100m / 330 ft cable length. (800 m / 2625 ft with 8x multi hops)



Mulitiprojection and edge-blending are available via external computer with multi-HDBaseT graphics output and with the use of 3rd party mapping software such as Madmapper, Resolume, Watchout, etc.

i: French company Videmus has presented a media server using Dataton WATCHOUT with six channels HDBaseT output integrated.

\*This set-up requires an external media player







#### LIGHTFORM Mapping Kit

LIGHTFORM is the well-known projection-mapping tool from California. The LIGHTFORM LFC Kit can be easily integrated into the LAZR<sup>™</sup> outdoor projector and thus freely used outdoors. Local Wi-Fi or LAN control is available.

\*This set-up recommended L A Z R™ accessories: Wi-Fi Plastic Shield \*This set-up requires 3rd party media player: LIGHTFORM LFC

#events #light design



model required for this set-up



#### miniMAD by Madmapper

Videomapping pioneers from Switzerland brought to the world the very affordable and quite capable Raspberry Pi based mapping player called miniMAD. It works smoothly with their state-of-the-art Mad Mapper video-mapping software. miniMAD uses a plug-in SD card for media storage.

\*This set-up requires 3rd party media player: miniMAD by Madmapper

#events #light design





use original NEUTRIK IP65 connectors.

Affordable miniMAD includes multiprojection support. The manufacturer warns, that the miniMAD multiprojection is not precisly frame to frame synchronized and that if using fast image transitions minor lag between screens might be noticeable. Cable LAN connection required for miniMAD multiprojection.



#### **4G Wireless Remote Mapping**

You can access your LAZR 4G<sup>™</sup> all over the planet and control the projected media in real-time. This set-up enables Full Remote Management and support services.

2-Channel Internet Connection available for improved reliability (Wired and/or 4G Wireless), at least 1 Channel Unrestricted Internet required for system operation.

L A Z R 4G<sup>™</sup> Features

- PLAY / STOP / SCHEDULE Simple Mapping Player
- Mapping Scanner
- Mapping Tools
- Remote UI Media Upload & Management
- Remote UI Calendar & Clock for Playback Scheduling



Control device (PC, Mac, Android, iOS) and Chrome browser required to access LAZR4G UI



Wireless Internet

model required for this set-up LAZR

## **Multiprojection Mapping**

You can link multiple L A Z R 4G<sup>™</sup> projectors to create a seamless outdoor projection-mapping screen of the desired size, shape and brightness. Comes with a simple PLAY / STOP / SCHEDULE functionality.

2-Channel Internet Connection available for improved reliability (Wired and/or 4G Wireless), at least 1 Channel Unrestricted Internet required for system operation.

LAZR4G<sup>™</sup> Multiprojection Features

- Network Video Frame Synchronization
- Edge Blending
- Multiprojection Wizard\* (\*April 2021 Update)
- \*This setup requires LM3X Image Synchronization Router



Control device (PC, Mac, Android, iOS) access and Chrome browser required to access LAZR4G UI



Wireless Internet





38

Wired Internet optional DHCP, unrestricted

# ACCESSORIES

## LΛΖマ



#### **Urban Pole**

Slim & robust design for hi-end locations. Single Urban Pole can carry up to 12 L A Z R 4G™ projectors.

360°

#### 3 Axis Arm

by LM3X

Free Image Orientation Adjust Exceptional Image Stability

360°



Landscape mode

Warning: Default L A Z R™ shield enables Landscape image mode only. For Portrait mode, use equipment: Portrait Mode Shield

#### Wall & Pole Bracket

Compact and versatile bracket for a wide range of use



360°

Image Orientation Adjustment Landscape mode only

+/- 10 °





mode

## Wall & Pole Bracket



Landscape mode

Alles



#### 360° Bracket







mode

Warning: Default L A Z R™ shield enables Landscape image mode only. For Portrait mode, use equipment: Portrait Mode Shield



#### Tripod for events

Compact and versatile chassis





Landscape mode

# PRICELIST



# LAZR

L A Z R E16 900	L A Z R <sup>4G</sup> <b>€24 900</b>	€5 900
Shipping and tax not included	Shipping and tax not included	Shipping and tax not included
A Z R™ Outdoor video Projector HDMI HDBaseT Landscape mode24 kg HS 852 869 80 90	LAZR 4G™ Outdoor video-mapping projector HDMI Landscape mode24kg HS 852 869 80 90	Urban Pole X-part 35 kg
€360	€360	€1200
Shipping and tax not included	Shipping and tax not included	Shipping and tax not included
Aluminium Shield LAZR™/LAZR4G™ add-on portrait mode 3 kg	Wi-Fi Player Compatible Plastic Shield   L A Z R™ add-on   landscape mode   2 kg	Wall & Pole Bracket   12 kg   HS 852 990 92 57
€360	€2 900	€100
Shipping and tax not included	Shipping and tax not included	Shipping and tax not included
Wi-Fi Player Compatible Plastic Shield L A Z R <sup>™</sup> add-on portrait mode 2 kg 54	afor Bracket 35 kg HS 852 990 92 57 Brice offer valid until Q4 2023	Air filter pack (10 pcs) 0,102 kg HS 540 490 90 90

<sub>Туре А</sub> €7 900 <sub>Туре В</sub> €14 900

Shipping and tax not included

Urban Pole Main Columnn

Type A max 6 projectors Type B max 12 projectors

Type A 110 kg Type B 235 kg



Shipping and tax not included



Tripod Adapter

fits in 11/8" (28mm) socket. Use with <u>Avenger Roller</u> or similar.

2,38 kg HS 852 990 92 57



Shipping and tax not included



LM3X Image Synchronization Router

0,7 kg HS 851 762 00 00

Price offer valid until Q4 2023 55

#### Cellular network

T4 L A Z R 4G<sup>™</sup> is made with two types of cellular network receiver. The type of modem used in your device is indicated on the side of the device.

If you use your device in a diff erent location than what your machine is configured for, you may experience problems connecting your device using the cellular network.

**CELLULAR NETWORK - E:** Variant for EMEA/Brazil/APAC

· LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 • LTE-TDD: B38/B40/B41 · 2×CA: B1+B1/B5/B8/B20/B28; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32; B38+B38; B40+B40; B41+B41 • WCDMA: B1/B3/B5/B8

**CELLULAR NETWORK - A:** Variant for America/Canada/Mexico/Argentina

· LTE-FDD: B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 · 2×CA: B2+B2/B5/B12/B13/B26/B29; B4+B4/B5/B12/B13/B26/B29; B7+B5/B7/B12/B13/B26/B29; B25+B5/B12/B13/B25/B26/B29; B30+B5/B12/B13/B26/B29; B66+B5/B12/B13/B26/B29/B66 • WCDMA: B2/B4/B5

#### **Declaration of Conformity**

Hereby declare that: OUTDOOR PROJECTOR Product: Product family: Т Τ4 Machine Type:



Is compliant with the essential requirements and any other relevant provisions of the following EC directives, and that all the necessary steps have been taken and are in force to assure that the production units of the same product will continue to comply with the above specifi ed requirements.

#### **ELECTRICAL SAFETY TEST**

The following regulations have been used: EN 62368-1:2014 + AC:2015-05 + A11:2017

ELECTROMAGNETIC COMPATIBILITY TEST

The following regulations have been used:

EN 55024:2010 EN 55032:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-4-2:2008 EN 61000-4-3:2006 +A1:2007 +A2:2010 EN 61000-4-4:2012 EN 61000-4-5:2014 EN 61000-4-6:2014 EN 61000-4-11:2004,

#### **Declaration of RoHS2 Compliance**

Product: Trade Name: Machine Type: T4

OUTDOOR PROJECTOR LUMITRIX



This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance

Lead (Pb)

Mercury (Hg)

Cadmium (Cd)

Proposed Maximum Concentration 0.1% 0.1% 0.01% 0.1% Hexavalent Chromium (Cr6+) 0.1% Polybrominated biphenyls (PBB)

0.1% Polybrominated diphenyl ethers (PBDE)

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below:

Examples of exempted components are:

1. Mercury in cold cathode fl uorescent lamps and external electrode fl uorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): (1) Short length (=<500 mm): maximum 3.5 mg per lamp.

(2) Medium length (>500 mm and =<1,500 mm): maximum 5 mg per lamp.

(3) Long length (>1,500 mm): maximum 13 mg per lamp.

2. Lead in glass of cathode ray tubes.

3. Lead in glass of fl uorescent tubes not exceeding 0.2% by weight.

4. Lead as an alloying element in aluminium containing up to 0.4% lead by weight.

5. Copper alloy containing up to 4% lead by weight.

6. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).

7. Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.



Actual Concentration

< 0.1% < 0.1% < 0.01% < 0.1% < 0.1% < 0.1%

## NOTES

## NOTES

