BAYLINE PIXEL
SPECIFICATION SHEETS

BAYLED®
www.bayled.eu

| LED | Energy Saver | ♺ | IP67 | IK09 | CLASS II | CE | RoHS | FC | RDM MONITORING | DMX RDM | 5 YEARS WARRANTY |

EXPLANATION

•BAYLINE PIXEL provides optimum illumination with excellent colour harmony for media facade lighting, bridges, stadiums, creative stage lighting, and specialized lighting design. BAYLINE PIXEL fixtures provide a dynamic lighting solution with unlimited pixel options, advanced accessory alternatives and easy assembly structures. BAYLINE PIXEL is used especially in dynamic lighting applications that require a long and linear appearance, and thus offers great opportunities for special lighting designs as well.
BAYLINE PIXEL Series is produced in 48 LED/meter pcs colored LED. BAYLINE PIXEL Series has a sturdy extruded aluminium body. It works at 24V DC to ensure connections over long distances. BAYLINE PIXEL provides easy setup and programming with standard DMX 512 without special or complex communication protocols.

• BAYLINE PIXEL provides compatible communication with other fixtures using standard DMX 512 without requiring any other special communication protocol or production ID. This feature allows for easy pixel mapping and addressing after all installations have been completed.

• BAYLINE PIXEL lineer lights enable flexible application using very long starter and jumper cables, since they operate in 24V DC voltage range.

• BAYLINE PIXEL work through Madrix® or Enttec software and hardware in coordination. Pixel mapping can be made easily by selecting fixtures in Madrix® or Enttec library.

• IP67 class BAYLINE PIXEL, are designed to meet the challenging equirements of exterior applications with their robust and durable structure. It is resistant to shock, vibration and other harsh conditions through extruded aluminium body.

• Input and output is delivered through a cable and requires an extra junction box. This junction allows cable connection between distances. Jumper cables can be determined according to the desired length of cable.

•Diffuser profiles are resistant to impacts and UV, and never turn yellow during their lifetime due to the alloyed PMMA and PC structure.

• BAYLINE PIXEL provides power and data transmission via input and output connectors. IP67 connectors are in screw structure. They can be easily rotated and assembled, and leave sufficient gaps between the fixtures. There is no need to use an extra junction-box via input and output.

• BAYLINE PIXEL Series is produced in grey color as standard, and is also available in different colors in RAL code upon request.

SPECIFICATIONS

Output	PIXEL
Light Source	48 Low Power 3 in 1 Colored LEDs per meter
Lumen Maintenance	60.000 > hours L70 @ 50° C (full output)
Color Range	16.7 Million additive RGB colors
Ra(CRI)	RGB Full on ≥70CRI
Beam Angle	180° with diffuser
Luminous Flux	464 lm/m
Efficacy (lm/W)	46 lm/W

Control & Programming

Color Resolution:	3 x 8-bit (Gamma correction)
PWM Frequency:	1000Hz flicker free dimming
DMX / DALI Compliance:	USITT DMX512-1990

Electrical

Operating Voltage:	24V DC
Power Consumption:	10W/m
Connections:	Connector

Physical

Housing:	Extrusion
Front Material:	PMMA
Installation Brackets:	Aluminium and plastic
Gasket:	Silicon
Color:	Grey (standard) or Custom Any RAL (optional)

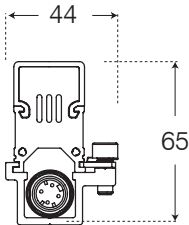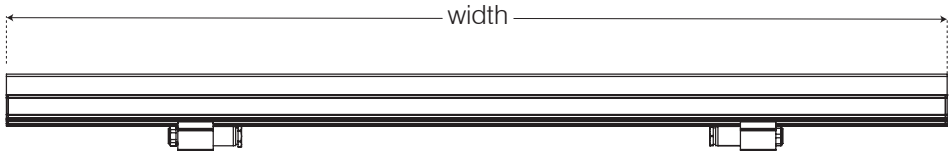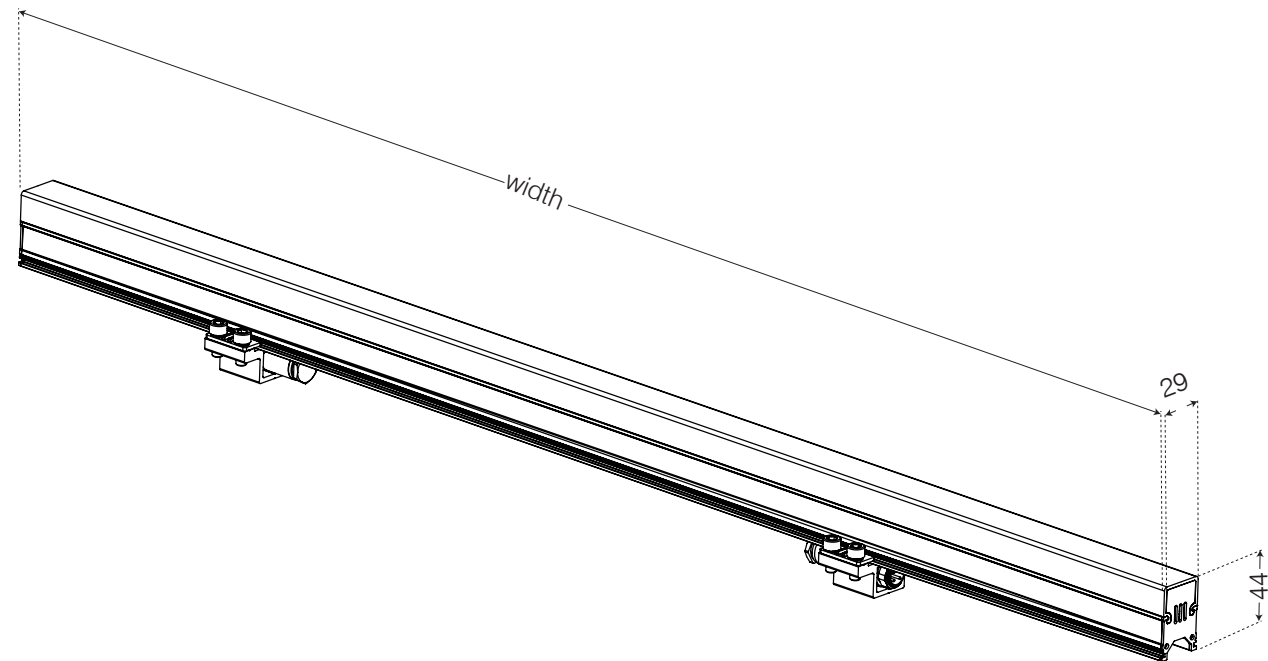### Measurements:

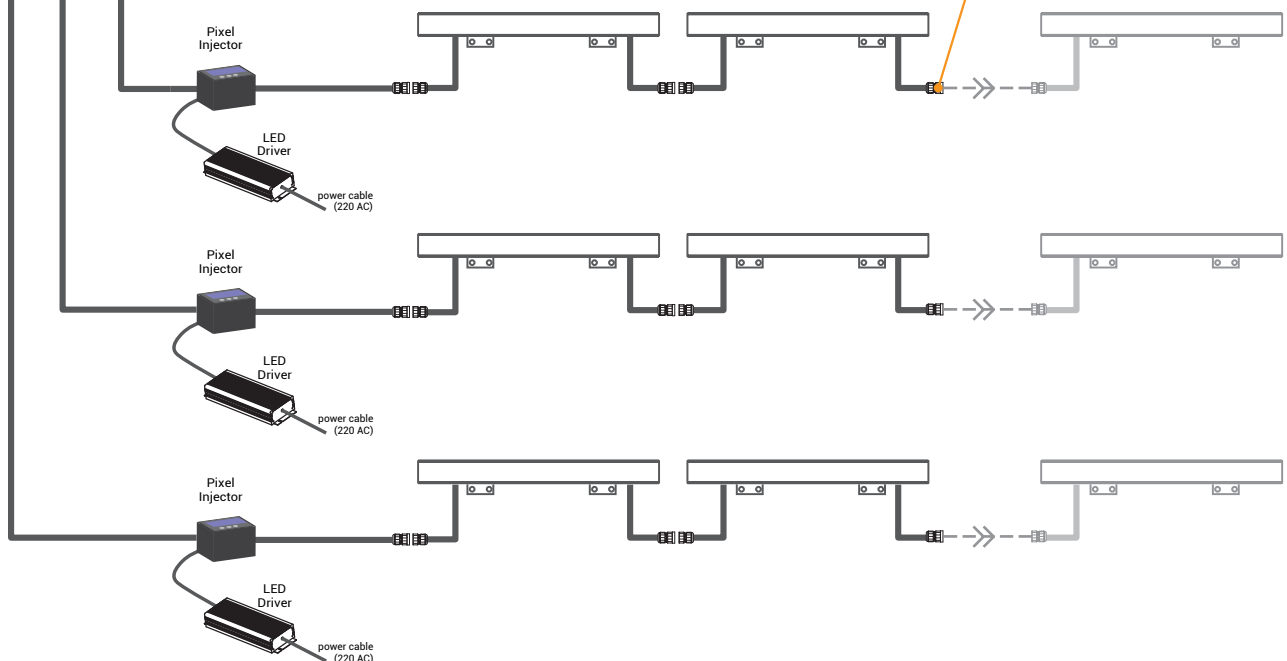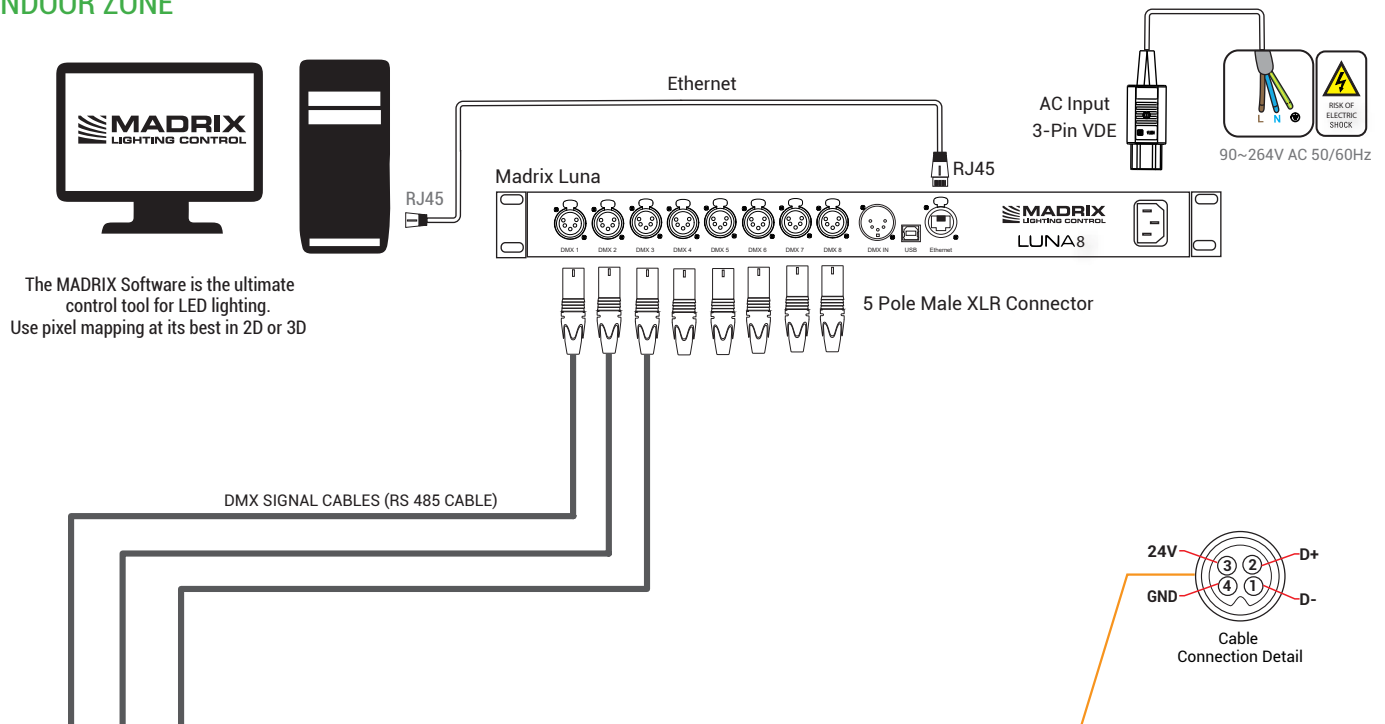|	
Dimensions: (height x width x depth)	28 mm x (300 mm-1800 mm) x 65 mm
Net weight:	0,70 kg/m

Environmental

Storage Temperature:	-40°C / +85°C
Ambient Temperature:	-25°C / +50°C
Operating Temperature:	-25°C / +65°C
Cooling:	Cooling by free air convection
Ingress Protection Rating:	IP67
Impact Resistance Rating:	IK09

Certificate:	EN 60598, CE

Warranty:	5-year Limited Warranty

width

29

44

width

44

65

INDOOR ZONE

Ethernet

AC Input
3-Pin VDE

L N ⏚
RISK OF ELECTRIC SHOCK

90~264V AC 50/60Hz

RJ45

Madrix Luna

RJ45

MADRIX LIGHTING CONTROL

LUNA8

DMX 1 DMX 2 DMX 3 DMX 4 DMX 5 DMX 6 DMX 7 DMX 8 DMX IN USB Ethernet

5 Pole Male XLR Connector

The MADRIX Software is the ultimate
control tool for LED lighting.
Use pixel mapping at its best in 2D or 3D

DMX SIGNAL CABLES (RS 485 CABLE)

24V ③ ② D+
GND ④ ① D-

Cable
Connection Detail

OUTDOOR ZONE

Pixel
Injector

LED
Driver

power cable
(220 AC)

Pixel
Injector

LED
Driver

power cable
(220 AC)

Pixel
Injector

LED
Driver

power cable
(220 AC)

Suggestions to Reach for DMX Control
The total cable length should not be more than 300m without buffering.
The total fixture number should not be more than 15 pcs on a single line without buffering.
It is recommended to use only connection cables with a characteristic impedance of 120 ohm, where the DMX + and DMX − data lines are
intertwined and there is a ground link as a coaxial screen surrounding the inner cores.
120 Ω terminating resistor should be connected between the DMX + and DMX − output connections on the last fixture.
Use a powered DMX splitter/buffer if it is necessary to separate the control link in order to feed fixtures in different locations.
Make sure that the DMX + and DMX - connections do not get crossed at any point.
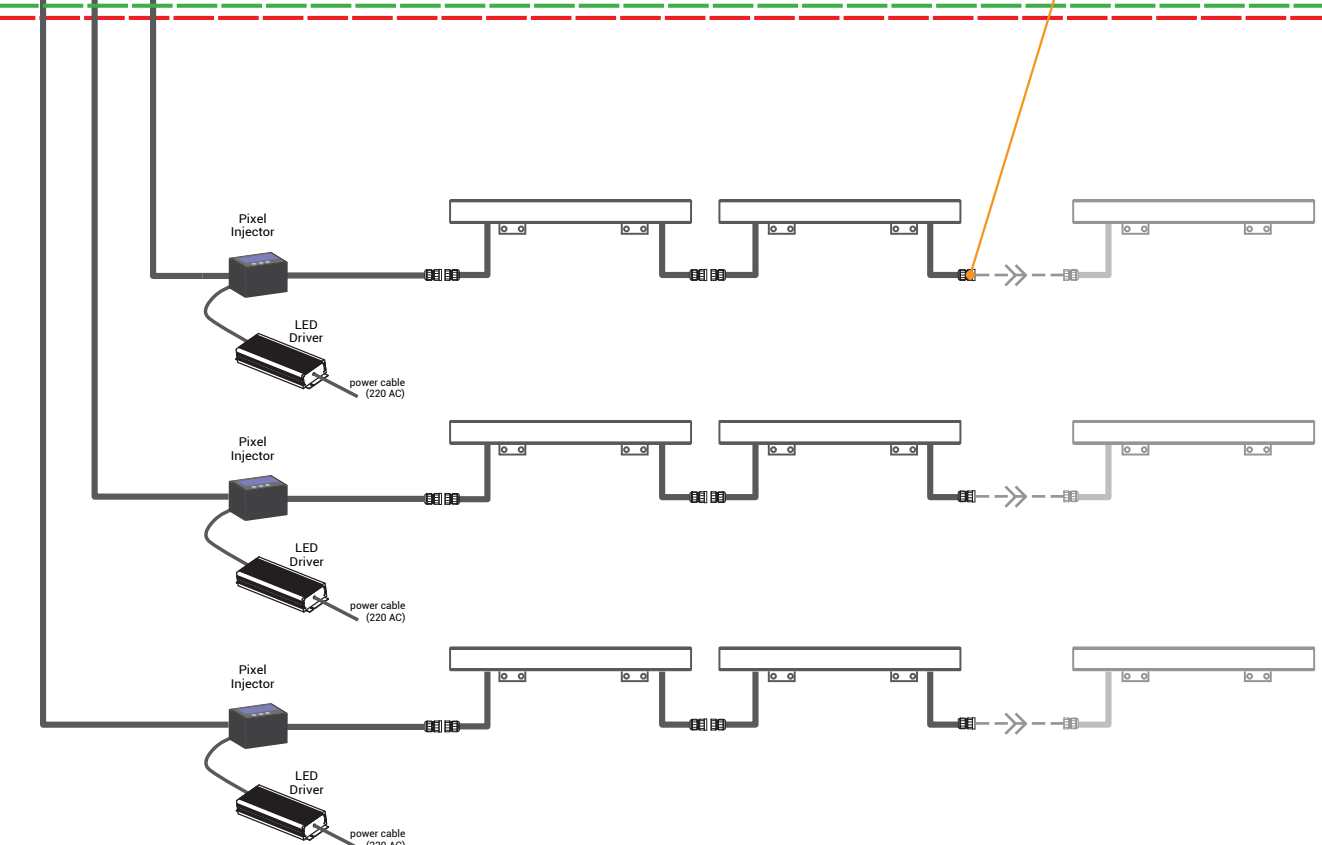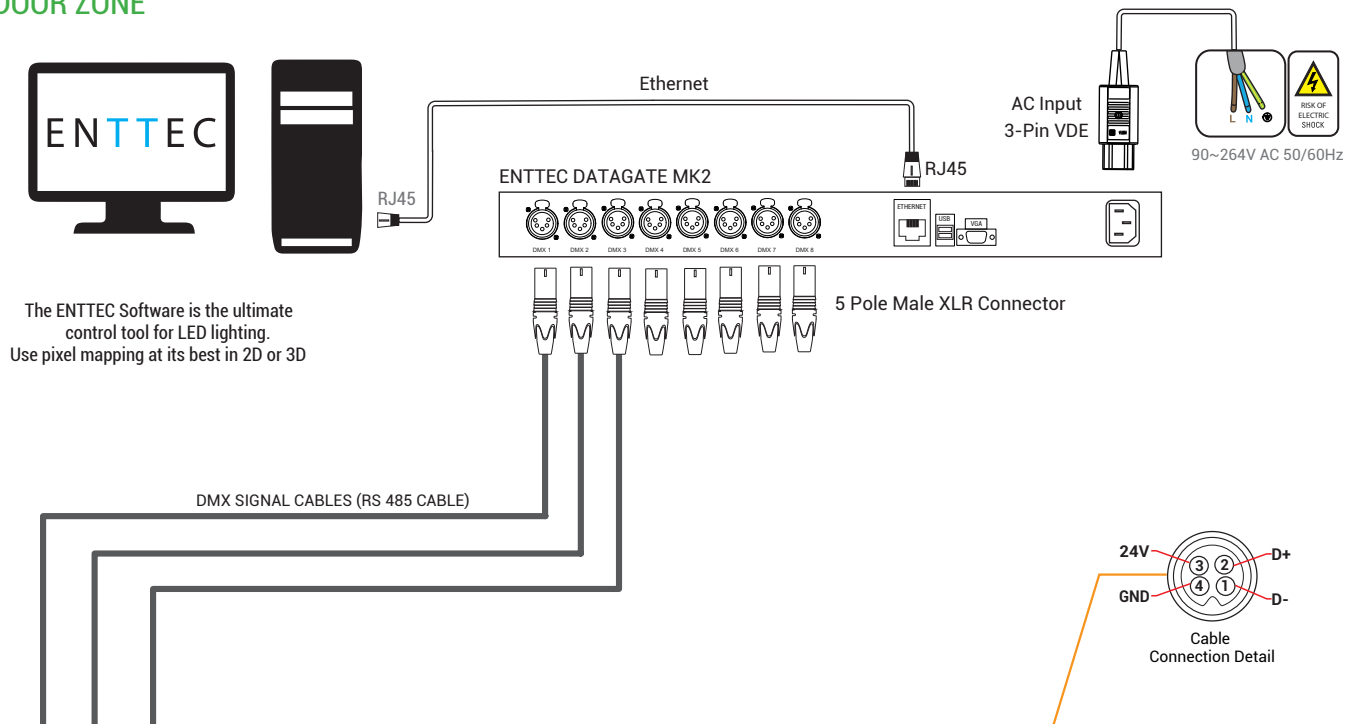
Notes:
1) Maximum total length of chain (fixtures and leader cable) is 50m.
2) Maximum total length of fixtures in chain is 15 pieces, varies by selected DMX personality.

INDOOR ZONE

ENTTEC

Ethernet

AC Input
3-Pin VDE

RISK OF
ELECTRIC
SHOCK

90~264V AC 50/60Hz

RJ45

RJ45

ENTTEC DATAGATE MK2

DMX 1 DMX 2 DMX 3 DMX 4 DMX 5 DMX 6 DMX 7 DMX 8

ETHERNET USB VGA

5 Pole Male XLR Connector

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Use pixel mapping at its best in 2D or 3D

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24V   D+

GND   D-

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RDM EXPLANATION

BAYLINE PIXEL
complies with the RDM Monitoring Command System. In order to use RDM Monitoring System, a compatible controller is required depending on the installation.

Through DMX data connection, it is possible to control the fixture's settings, send commands and receive or monitor the fixture's data.

DEVICE MANAGEMENT

	GET	SET
Device Info	√	√
DMX Start Address	√	√
Identify Device	√	√
Device Model Description	√	
Device Label	√	√
Software Version Label	√	
DMX Personality	√	√
DMX Personality Description	√	
Device Power Cycles	√	
Status ID Description	√	
Supported Parameters	√	
Parameter Description	√	

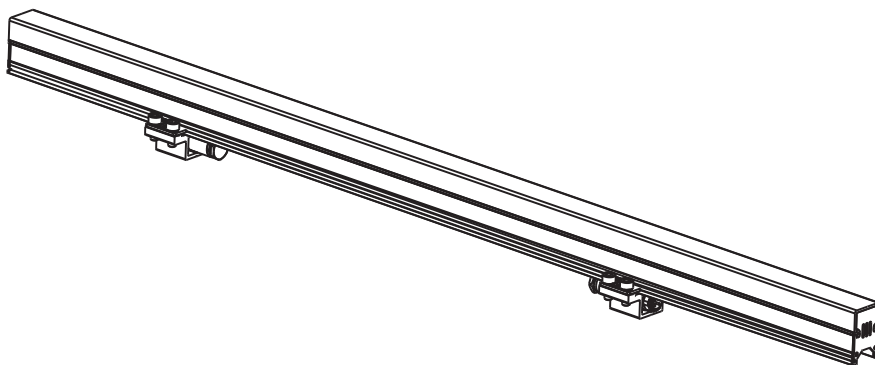⁎ The command names and command functions used on different RDM controllers may vary.

⁎ Incompatible RDM controllers may cause drawbacks such as partial operation, no-operation, or incorrect fixture information.

⁎ You can check the recommended RDM controllers on the www.bayled.eu website.

ORDER CODES

3 IN 1 LED - RGB
(Beam angle options: 180° with diffuser)
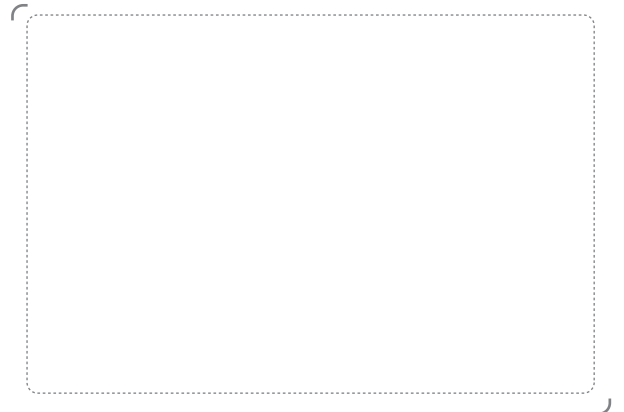
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BAYLED®

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www.bayled.eu

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