

INSTALL GUIDE

bright green MATRIX



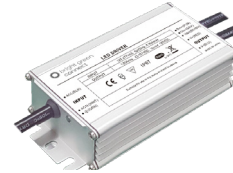
20 AWG wire



Install clips/rail



Bright Green Matrix



LED driver



Wire connectors

Determine the layout of Bright Green Matrix based on the size and depth of the area to be illuminated using the guidelines below. Alternatively, request a layout drawing from Bright Green Technology.

Layout

Recommended minimum pitch per depth:

Depth* (mm)	Pitch using MS-S50	Pitch using MS-S25
150	150	150
200	200	200
250	250	250
300	300	300
400	---	400
500	---	400
600	---	400



* distance between front of LED and rear of diffuser

Construction

Bright Green Matrix is a rigid, resin-filled and modular lighting range. Its IP67 construction makes it suitable for a wide range of environments and lighting applications.

Principle Materials:

Aluminium, FR4-PCB, epoxy resin

Control

Bright Green Matrix is dimmable and controllable using suitable LED drivers and protocols such as DALI/DMX/0-10V.

Tel +44 (0) 1932 355221 info@brightgreentechnology.com
Find out more at www.brightgreentechnology.com

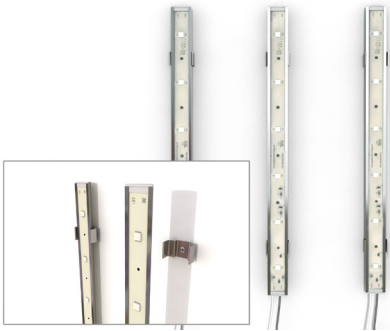
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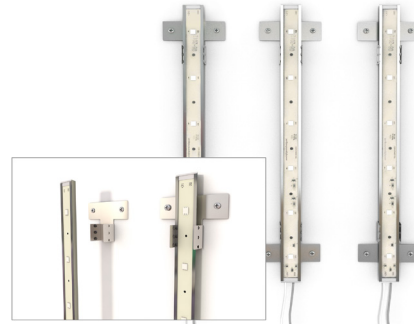
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Installation Options



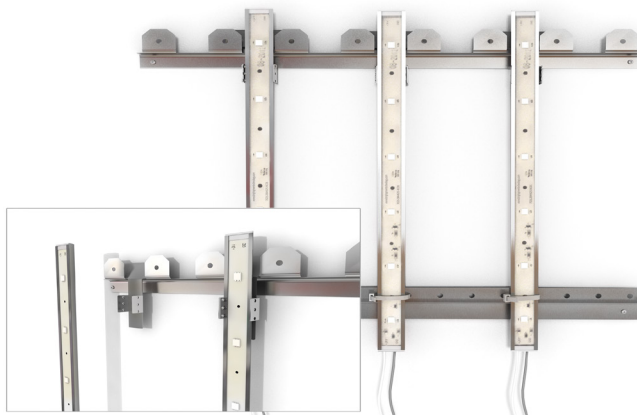
Spring clip - Part no. MA-003

For standard installation (included)



Heavy duty bracket - Part no. BGT-PT-060

For installation where fixture security is critical



Installation rail - for large format installs, supplied as 3m lengths as standard:

Part no. BGT-PT-038 - bottom rail + compatible cable ties (one per unit)

Part no. BGT-PT-020 - top rail + hanging T bracket (one per unit)

Installation Note

Do not apply power until all connections are made

Ensure all components are IP67 to maintain rating

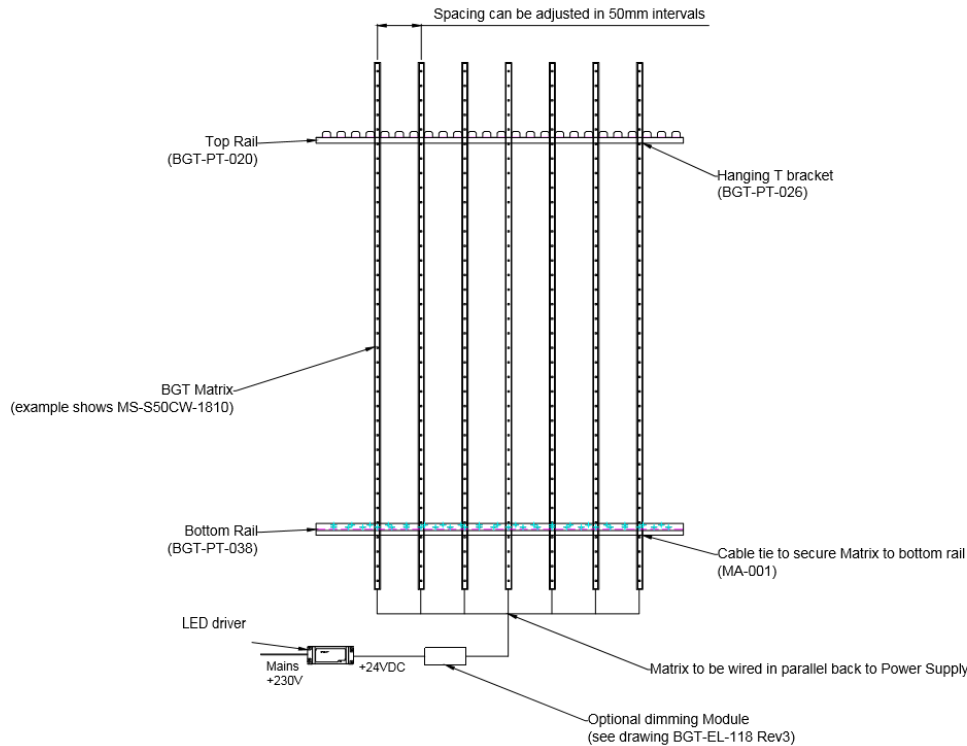
Distance and cable gauge between installed units and power supply should be taken into account to ensure no voltage drop

Unused wire tail should be capped with a suitable connector/terminator

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Electrical layout example



Electrical Connection

25mm pitch - connect to a 24V power supply.

If connected in series, total length of the group must not exceed 3.6 metres.

50mm pitch - connect to a 24V power supply.

If connected in series, total length of the group must not exceed 4 metres.

Operation Notes

Operating temperature range: -30° to 70°C.

Voltage range: 24V DC (25mm & 50mm)

Avoid mechanical stress during and after installation. Avoid straining the cable or cable/module join.

Bright Green Matrix is not recommended for external marine environments.

Bright Green Matrix is ECA compliant for amenity, accent and display lighting.

UMSUG charge codes for 25mm and 50mm variants are available on request.

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Storage

Storage temperature range: -30 to 30°C

Store in a cool, dry place. Protect from dust and direct heat

Handling Notes

Do not bend or cut Bright Green Matrix

Maintenance

Bright Green Matrix is not user serviceable, no planned maintenance is required