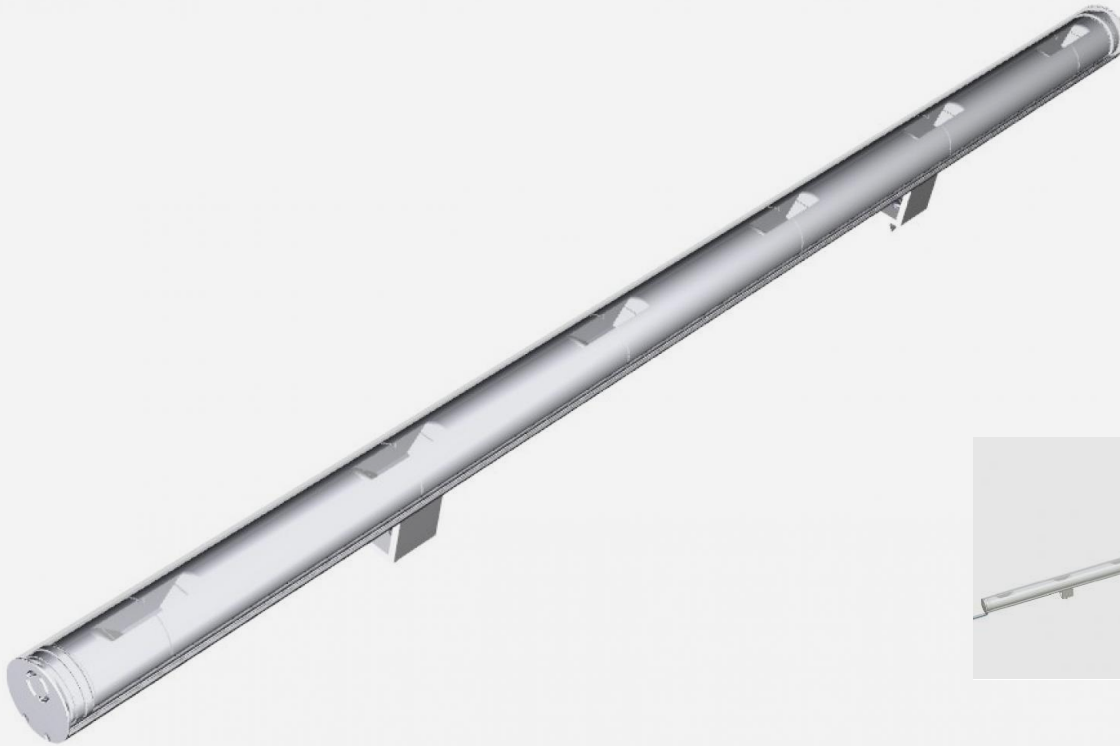


LAS-II

HYBRID LED BAR



LAS is a HYBRID LED BAR which mixes the Low Power LED RGB 3-in-1 and High Power LED RGB 3-in-1 together. It is able to be controlled by DMX512A and RDM. Built-in FPGA and 16-bit PWM embedded LED IC, featuring Gamma Correction and 16-bit gray scale control, supports up to 65,536 gray scales for color depths. The high visual refresh rate can facilitate CCD cameras and video cameras to capture the full video images in real time without flickers.

Technical Data

Luminaire Type/ 安裝方式

Surface Mounted Type/明裝式

Power Consumption Max/ 燈具最大功率
LP: Low Power
HP: High Power

16W +/- 10% @ L:900mm (17 pcs LP RGB LEDs Mix 6 pcs HP RGB LEDs)
22W +/- 10% @ L:1213mm (23 pcs LP RGB LEDs Mix 8 pcs HP RGB LEDs)
34W +/- 10% @ L:1790mm (35 pcs LP RGB LEDs Mix 12pcs HP RGB LEDs)
37W +/- 10% @ L:1988mm (38 pcs LP RGB LEDs Mix 13pcs HP RGB LEDs)
42W +/- 10% @ L: 2230mm (44 pcs LP RGB LEDs Mix 15pcs HP RGB LEDs)
45W +/- 10% @ L: 2465mm (47 pcs LP RGB LEDs Mix 16pcs HP RGB LEDs)

QTY of First Layer (High Power RGB LEDs)
• Pitch: 156.5mm (+/-5%)@900mm& 1213mm &1988mm & 2465mm
• Pitch : 151.5mm (+/-5%) @ 1790mm & 2330mm

Max Driving Current of RGB @ 4800K +/-300K
6 pcs x 3-in- 1 High Power RGB LEDs@ L: 900mm
8 pcs x 3-in- 1 High Power RGB LEDs@ L: 1213mm
12 pcs x 3-in- 1 High Power RGB LEDs@ L: 1790mm
13 pcs x 3-in- 1 High Power RGB LEDs@ L: 1990mm
15 pcs x 3-in- 1 High Power RGB LEDs@ L: 2230mm
16 pcs x 3-in- 1 High Power RGB LEDs@ L: 2465mm

QTY of Second Layer (Low Power RGB LEDs)
• Pitch: 52.2mm (+/-5%)@900mm& 1213mm &1988mm & 2465mm
• Pitch: 50.5mm (+/-5%) @ 1799mm & 2330mm

Max Driving Current of RGB @ 4800K +/-300K
17 pcs x 3-in- 1 Low Power RGB LEDs@ L: 900mm
23 pcs x 3-in- 1 Low Power RGB LEDs@ L: 1213mm
35 pcs x 3-in- 1 Low Power RGB LEDs@ L: 1790mm
38 pcs x 3-in- 1 Low Power RGB LEDs@ L: 1990mm
44 pcs x 3-in- 1 Low Power RGB LEDs@ L: 2230mm
47 pcs x 3-in- 1 Low Power RGB LEDs@ L: 2465mm

Control Protocol/控制協議

DMX 512A / RDM (Auto Address and free connection in "right input or left input")

Color Range/顏色範圍

16.7 Million additive RGB colors/1670萬RGB顏色混合

Color Resolution with Gamma correction
RGB顏色經過伽馬校正的分辨率

(3x16) 48-bit gray scale control and Gamma correction, supports up to 65,536 gray scales for color depths
By FPGA Chip: Brand : ALTERA P/N:EP4CE6F17C8N, PWM IC: MBI6023GP-C for Low Power and MY9231TE
(3x16) 48 位灰度控制, 支持高達65,536個灰度級的顏色深度

Pixels & DMX Channels/像素和DMX 通道

69 chs (First Layer:1~51 chs@ Low Power RGB LED; Second Layer: 52~69) @900mm
93 chs (First Layer:1~69 chs@ Low Power RGB LED; Second Layer: 70~93) @1213mm
141 chs (First Layer:1~105 chs@ Low Power RGB LED; Second Layer: 106~141) @1790mm
153 chs (First Layer:1~114 chs@ Low Power RGB LED; Second Layer: 115~153) @1990mm
177 chs (First Layer:1~132 chs@ Low Power RGB LED; Second Layer: 133~177) @2230mm
189 chs (First Layer:1~141 chs@ Low Power RGB LED; Second Layer: 142~189) @2465mm

Input Voltage / 輸入電壓

48 V DC

Beam Angle/光束角

High Power RGB LED: Horizontal : 80°(+/-5°) & Vertical : 45°(+/-5°)
Low Power RGB LED: Horizontal : 120°(+/-5°) & Vertical : 120°(+/-5°)

Light Source Brand/光源品牌

3 in 1 SMD Low Power RGB LED: Nichia
High Power RGB LED: Cree

LED Life/LED壽命

>50,000 hours

Luminous Intensity (@5000K; white)
@High Power LED

33cd/ node

Luminous Intensity (@5000K; white)
@Low Power LED

1.2 cd/node

Housing materials/外殼材料

Aluminium Extrusion Bar / UV-Protected Clear Polycarbonate Tube
鋁擠壓棒/抗紫外線PC透明PC管

LED optical material /LED光學材料
@ High Power LEDs

UV-Protected Clear Polycarbonate Reflector with white surface
抗紫外線PC白色表面反光杯

LED optical material /LED光學材料
@ Lower Power LEDs

UV-Protected Milky Polycarbonate Diffuser
/抗紫外線乳白PC擴散器

Operating Temperature Range / 工作溫度範圍

-20 °C ~ +50 °C

Operating Humidity -工作濕度

0~90%, non-condensing-不結霜

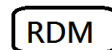
Ingress Protection/ 防護等級

IP67

Dimension/尺寸

- L: 900(+/-3)mm x Dia:40 (+/-0.5)mm x H:68(+/-0.5)mm with Bracket
- L: 1213(+/-3)mm x Dia:40 (+/-0.5)mm x H:68(+/-0.5)mm with Bracket
- L: 1790(+/-3)mm x Dia:40 (+/-0.5)mm x H:68(+/-0.5)mm with Bracket
- L: 1990(+/-3)mm x Dia:40 (+/-0.5)mm x H:68(+/-0.5)mm with Bracket
- L: 2330(+/-3)mm x Dia:40 (+/-0.5)mm x H:68(+/-0.5)mm with Bracket
- L: 2465(+/-3)mm x Dia:40 (+/-0.5)mm x H:68(+/-0.5)mm with Bracket

Certification-認證



Project	Fixture#	Date
		Firm



Ordering Information

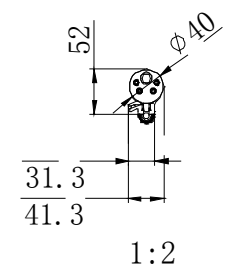
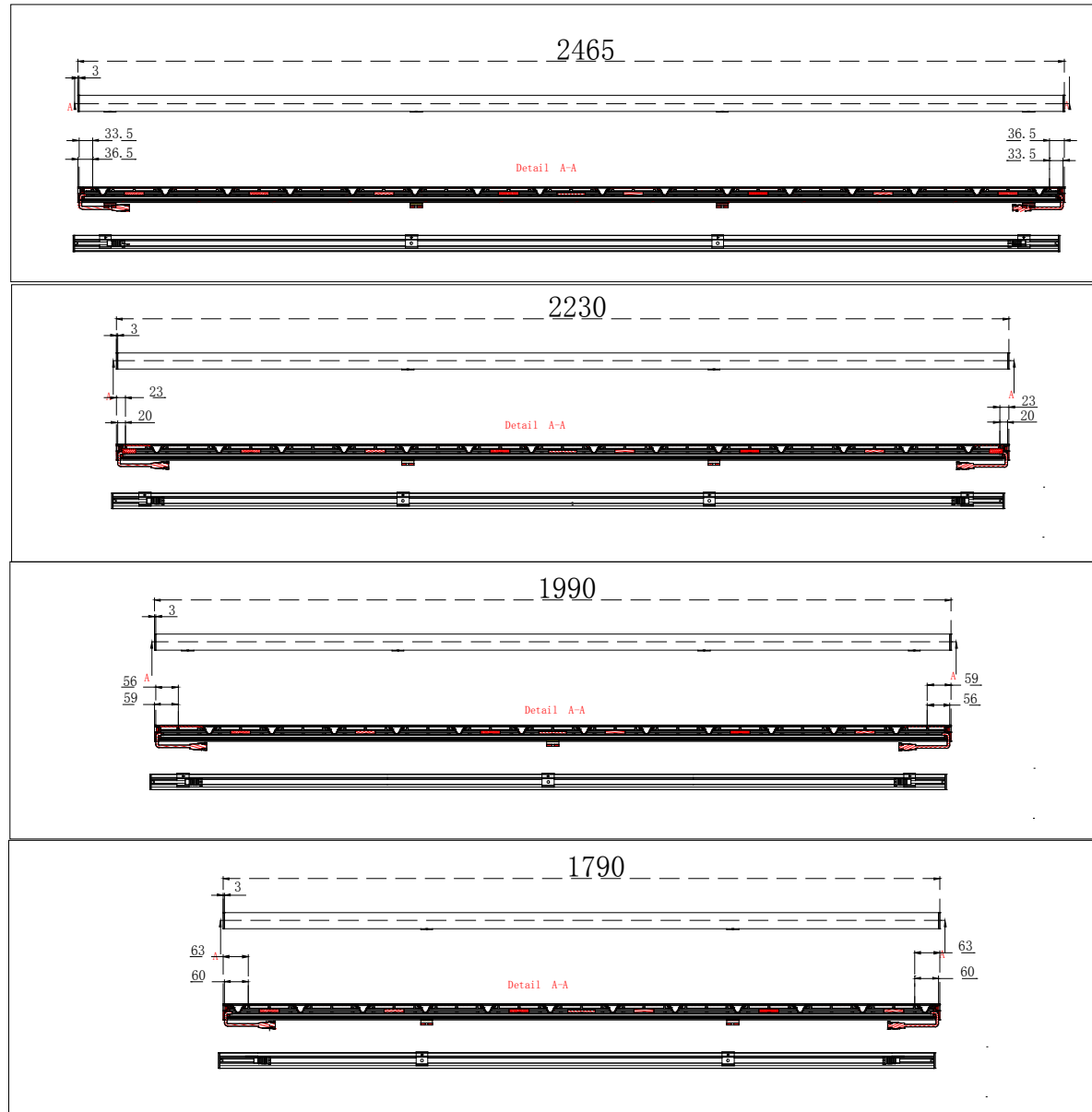
Choose the option that suits your need and write its corresponding code on the appropriate line to form the product code.

Example product code: [LAS II -34W-DMX](#)

LAS-II - - -
POWER CONSUMPTION
CONTROL TYPE
Male Pin Connection

POWER CONSUMPTION		CONTROL TYPE		Male Pin Connection	
Code	Description	Code	Description	Code	Description
16W	16W@900mm	DMX	DMX512A	Right	Right side
22W	22W@1213mm	RDM	RDM	Left	Left side
34W	34W@1790mm				
37W	37W@1990mm				
42W	42W@2230mm				
45W	45W@2645mm				

Technical Drawing HYBRID LED BAR-LAS



Unit: mm