

X-Bar™ is a revolutionary lighting effect system that requires maximum light intensity. The heart of **X-Bar** is an array of red, green, blue, yellow, warm white, or white power LEDs mounted on an elongated metal core PCB strip. The LED strip is then installed in sealed aluminum alloy housing. Each LED in the bar can be programmed to create uniform solid color effect or to create full color effect. For the RGB **X-Bar**, the color patterns can move at varying speed along the linked bars to create an extravaganza light show.

The bars are made of ultra slim and highly durable, impact resistance, water proof die-cast aluminum alloy. The UV protected glass materials will further extend the life of the bars under extreme sunlight exposure.

X-Bar™ system includes the LED light bars, mounting hardware, optional power supply and FX controller. Each compact power supply supplies safe and low voltage power for up to 10 meters of bar. Each controller provides data up to 10 meters of bar and can be controlled by pre-programmed software.

X-Bar™ system can be used as architectural light to outline building structure, freeways or bridges; as exterior or interior light effect walls; as stage lighting; and much more. The application is endless.

Installation is easy using the supplied mounting bracket and cables. The bars can be installed on any surface. All of **X-Bar™** components can be interconnected to create a lighting effect system of any size and complexity.



Features

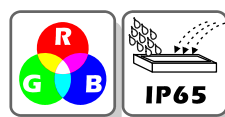
- High brightness, single color or full color
- Long life, over 50,000 hours of usable life
- Energy efficient, consume 80% less power compare to neon systems
- Durable, operates in both extremes of temperature for many outdoor environments
- Waterproof, ingress protection is IP65.
- Easy installation of bars. Controller and program are easy to operate.
- Low maintenance
- 1 year limited warranty (see page 6)
- System works in many countries (12/24VDC)

Applications

- Interior or exterior light effects
- Decorative lighting/Stage lighting
- Architectural and signage lighting

Optional Items

- Custom color or light effects software
- Power supply
- DMX decoder (Model: LT-300)

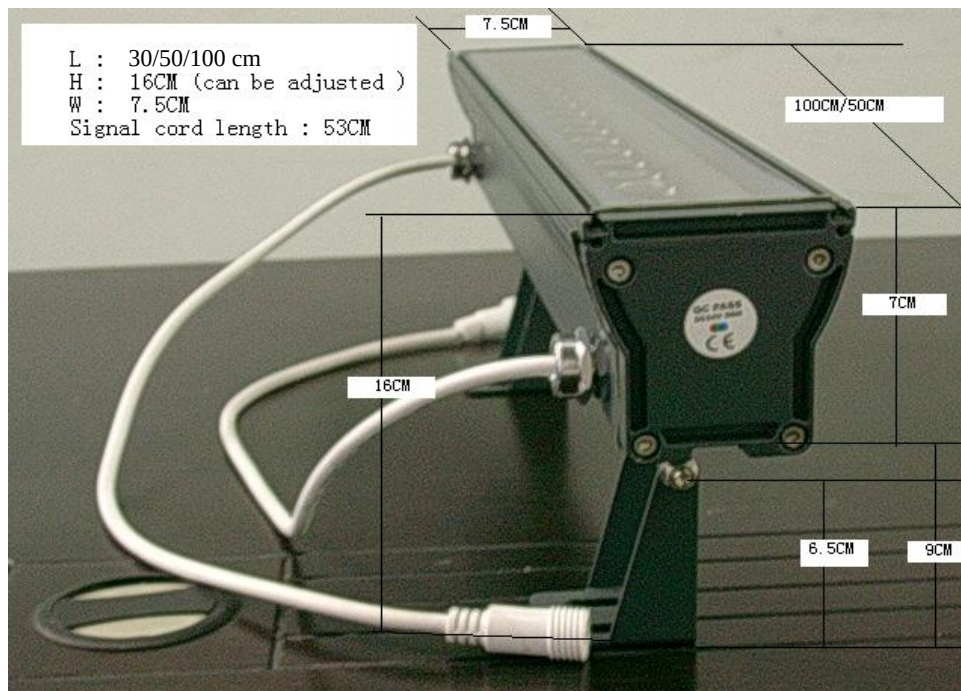


Product Specifications

Metric (cm)

Length	Width	Height (max)
100.0	7.5	16.0
50.0	7.5	16.0
30.0	7.5	16.0

Product Dimension



Pic 1. LED Bar Dimension

Optical Characteristics

Wavelength λ_d (Typical)

Color	Typical λ_d /CCT (nm/K)
Red	625
Yellow	595
Green	525
Blue	470
Warm White	3500K
Cool White	6500K
Full Color (R/G/B)	625/525/470

Light Throw Distance (m)

Color	0.3 meter bar		0.5 meter bar		1.0 meter bar	
	Throw Distance (m)	No. of Power LEDs	Throw Distance (m)	No. of Power LEDs	Throw Distance (m)	No. of Power LEDs
Red	5.0	9 X 1W	7.0	15 X 1W	10	30 X 1W
Yellow	5.0	9 X 1W	7.0	15 X 1W	10	30 X 1W
Green	5.0	9 X 1W	7.0	15 X 1W	10	30 X 1W
Blue	5.0	9 X 1W	7.0	15 X 1W	10	30 X 1W
Warm White	5.0	9 X 1W	7.0	15 X 1W	10	30 X 1W
Cool White	5.0	9 X 1W	7.0	15 X 1W	10	30 X 1W
R/G/B	5.0	3/3/3 X 1W	7.0	5/5/5 X 1W	10	10/10/10 X 1W

Thermal Characteristics

Item	Storage Temp.	Operating Temp.
Power Supply	-20°C to +85°C	-10°C to +60°C
Light Bar	-40°C to +100°C	-20°C to +40°C

Electrical Characteristics
DC Operating Voltage (V)

Color	0.3m Bar Input Voltage (V)	0.5m and 1.0m Bar Input Voltage (V)
Red/Yellow/Blue/Green/White	12.0± 5%	24.0± 5%
Full Color (RGB)	12.0± 5%	24.0± 5%

Power Consumption (Pd)

Item	Typical (Watt)
0.3 meter Bar	9W
0.5 meter Bar	15W
1.0 meter Bar	30W

Typical 400W Power Supply Run Length (m)

Color	Maximum Run Length (meter)
Red/Yellow/Blue/Green/White	10
Full Color (RGB)	10

Note: Actual run length depend on the wattage of the power supply used.

Part Numbering System

15° Beam Angle X-Bar

Part Number	Color	Length (meter)	Input Voltage (V)	Beam Angle
BB-1275-R-300/9/15D	Red	0.3m	12.0	15°
BB-1275-Y-300/9/15D	Yellow	0.3m		
BB-1275-G-300/9/15D	Green	0.3m		
BB-1275-B-300/9/15D	Blue	0.3m		
BB-1275-W-300/9/15D	Warm White	0.3m		
BB-1275-V-300/9/15D	Cool White	0.3m		
BB-1275-RGB-300/9/15D	Red Grn Blue	0.3m		
BB-2475-R-500/15/15D	Red	0.5m	24.0	15°
BB-2475-Y-500/15/15D	Yellow	0.5m		
BB-2475-G-500/15/15D	Green	0.5m		
BB-2475-B-500/15/15D	Blue	0.5m		
BB-2475-W-500/15/15D	Warm White	0.5m		
BB-2475-V-500/15/15D	Cool White	0.5m		
BB-2475-RGB-500/15/15D	Red Grn Blue	0.5m		
BB-2475-R-1000/30/15D	Red	1.0m	24.0	15°
BB-2475-Y-1000/30/15D	Yellow	1.0m		
BB-2475-G-1000/30/15D	Green	1.0m		
BB-2475-B-1000/30/15D	Blue	1.0m		
BB-2475-W-1000/30/15D	Warm White	1.0m		
BB-2475-V-1000/30/15D	Cool White	1.0m		
BB-2475-RGB-1000/30/15D	Red Grn Blue	1.0m		

Remarks:

BB-XXXX-X-X/XX/15D

Bar Length: 300=0.3m, 500=0.5m or 1000=1.0m

LED Color

2475: 24VDC, 7.5cm bar wide (for 0.5 and 1.0 meter bar); 1275: 12VDC (for 0.3 meter bar)

Part Numbering System

30° Beam Angle X-Bar

Part Number	Color	Length (meter)	Input Voltage (V)	Beam Angle
BB-1275-R-300/9/30D	Red	0.3m	12.0	30°
BB-1275-Y-300/9/30D	Yellow	0.3m		
BB-1275-G-300/9/30D	Green	0.3m		
BB-1275-B-300/9/30D	Blue	0.3m		
BB-1275-W-300/9/30D	Warm White	0.3m		
BB-1275-V-300/9/30D	Cool White	0.3m		
BB-1275-RGB-300/9/30D	Red Grn Blue	0.3m		
BB-2475-R-500/15/30D	Red	0.5m	24.0	30°
BB-2475-Y-500/15/30D	Yellow	0.5m		
BB-2475-G-500/15/30D	Green	0.5m		
BB-2475-B-500/15/30D	Blue	0.5m		
BB-2475-W-500/15/30D	Warm White	0.5m		
BB-2475-V-500/15/30D	Cool White	0.5m		
BB-2475-RGB-500/15/30D	Red Grn Blue	0.5m		
BB-2475-R-1000/30/30D	Red	1.0m	24.0	30°
BB-2475-Y-1000/30/30D	Yellow	1.0m		
BB-2475-G-1000/30/30D	Green	1.0m		
BB-2475-B-1000/30/30D	Blue	1.0m		
BB-2475-W-1000/30/30D	Warm White	1.0m		
BB-2475-V-1000/30/30D	Cool White	1.0m		
BB-2475-RGB-1000/30/30D	Red Grn Blue	1.0m		

Remarks:

BB-XXXX-X-X/XX/30D

Bar Length: 300=0.3m, 500=0.5m or 1000=1.0m

LED Color

2475: 24VDC, 7.5cm bar wide (for 0.5 and 1.0 meter bar); 1275: 12VDC (for 0.3 meter bar)

Optional Accessories

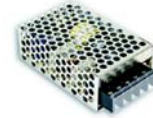
1) RGB Bar LED Controller/DMX Decoder (Only applicable to RGB X-bar)

Part Number: LT-300
Operating Voltage: 12V/24V DC
Output Power Rating: 300W for 12V DC / 600W for 24VDC

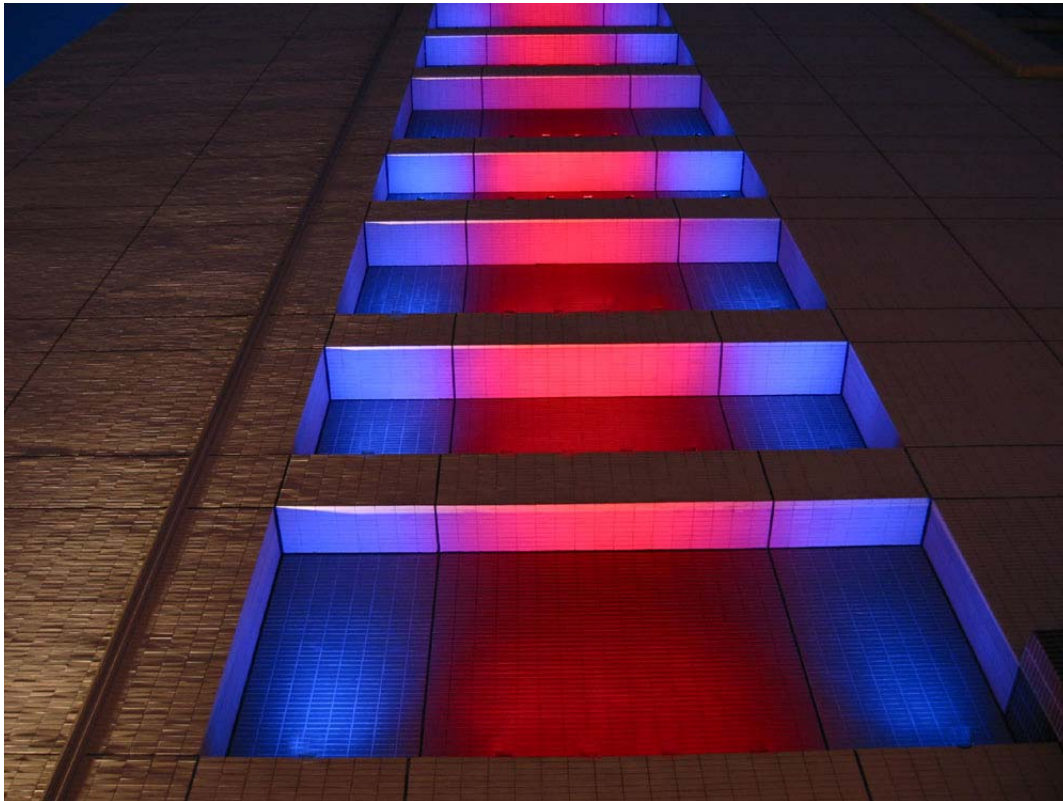


2) Power Supply (Applicable to BB-2475-X-X Single Color Bar)

Part Number: SS-150W-24 (150W/24V), Input 100/220VAC
SS-200W-24 (200W/24V), Input 100/220VAC
SS-300W-24 (300W/24V), Input 100/220VAC
SS-400W-24 (400W/24V), Input 100/220VAC



X-Bar Project Picture



LIMITED WARRANTY

Manufacturer warrants to the Purchaser that each Product manufactured and sold by it will be free from defects in material and workmanship in its intended use (normal wear and tear excepted) for the period of one year from date of Purchaser's purchase (the invoice date) from Manufacturer. Manufacturer's warranty flows only to Purchaser. If any Product covered by this warranty is returned by Purchaser in accordance with Manufacturer's Products Return Policy, including without limitation its return authorization provisions, within the applicable warranty period set forth above, and upon examination Manufacturer determines to its satisfaction that such Product was defective in material or workmanship at the time of delivery to the Purchaser, Manufacturer will, at its option, repair or replace the Product or the defective part thereof, or reimburse Purchaser for the purchase price. For purposes of clarity, "repair or replace the Product or the defective part thereof" does not include any reinstallation costs or expenses. If Manufacturer chooses to replace the Product and is not able to do so because it has been discontinued or is not available, Manufacturer may replace it with a comparable product. The Products Return Policy is posted on Manufacturer's Internet web site at http://www.brilliance-led.com/En_terms_conditions.asp. The foregoing notwithstanding, Manufacturer will not be responsible for damage to any Product resulting from misuse, negligence, acts of God or accident or resulting from repairs or alterations made by any person or firm not duly authorized by Manufacturer in writing. Purchaser shall convey with each Product distributed to end users the MANUFACTURER'S LIMITED WARRANTY included by Manufacturer with such Product, and, if Manufacturer determines that the appropriate remedy for a defective product is refund of Purchaser's purchase price, Purchaser shall refund to the end user (or arrange for the refund to the end user of) the full purchase price paid by the end user for such defective Product.

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