

Features

- 1. Ultra high cost performance
- 2. Adopt integrated lens
- 3. Single module can be cut
- 4. Support customization

Application

Suitable for 6-18cm depth light boxes, subways, supermarkets, bus stops, advertising letters, large shopping malls, etc.

Installation

Fix by adhesive tape or screws



Specification

| Model No. | Light Color | Color Temperature(K) | Beam Angle | Typical Luminous Flux value(lm/pcs) | CRI | Efficacy (lm/W) | Voltage (V DC) | Power (W/pcs) |
|--------------|-------------|-------------------------|---------------|--|-----|--------------------|-------------------|------------------|
| AV0114CBET-E | W | 9000-12000 | 160° | 81 | 80+ | 97 | 24 | 0.8 |
| | | 2900-3100 | | 114 | | 95 | | |
| | | 3800-4300 | | 118 | | 98 | | |
| AV0113_BET-E | W | 4800-5300 | 160° | 120 | 80+ | 100 | 24 | 1.2 |
| | | 6500-7000 | | 120 | | 100 | | |
| | | 9000-12000 | | 118 | | 98 | | |

Other Parameters

| Model No. | Quantity (LED Qty/pc) | Product Size L*W*H(mm) | Standard Run (pcs) | Max Run(single feed) (pcs) | Working Temperature | Storage Temperature |
|--------------|--------------------------|---------------------------|-----------------------|----------------------------|------------------------|------------------------|
| AV0114CBET-E | 2 | 48*13*7.5 | 50 | 50 | 20 +00% | -20~+70°€ |
| AV0113_BET-E | 3 | 68*13*7.5 | 40 | 40 | -20~+60°C | -20~+70 C |

NOTE:

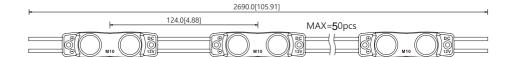
- 1. Test environment temperature : 25±2°C.
- 2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
- 3. Different color temperature will make luminous flux different.
- 4. Power tolerance within ±10%.
- 5. The "Quantity"above means the LED quantity of single module

Profile Drawings

Unit:mm[inch]

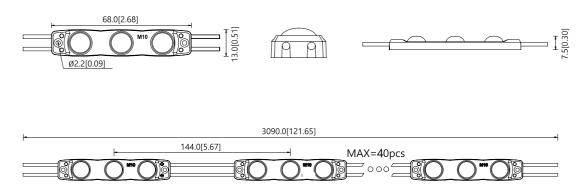
AV0114CBET-E







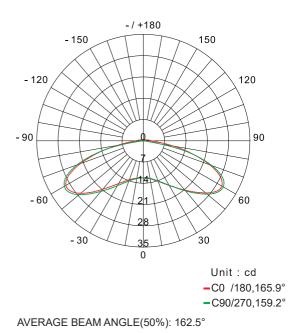
AV0113_BET-E

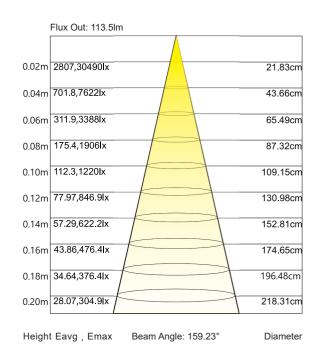


Note: For detail drawing, please consult sale rep.

Luminous Intensity Distribution Diagram

Average Illumination





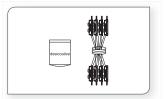
Note: the above two figures are tested with the sample AV0113_BET-E, for other data, please consult sale rep.



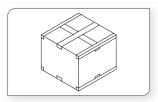
Reliability Test

| Туре | Name | Standard | Condition | Result |
|--------------------|--------------------------------|--|---|--------|
| | PTC test | | TH=-40/60°C/15min each, TH=-40/60°C/45min each, a cycle every 2h, light on for 5min, light off for 5min | |
| | High Temperature test | | TH=60/80°C,continuous power on | |
| Environmental test | Anti-UV test | Blueview standard | TH=50°C,UVB:315~400nm | Pass |
| | Room Temperature Aging test | | Ta=25°C,continuous power on | |
| | Water-spray test | | Water spray pressure 0.02MPa, volume 0.75m³/h, diameter, ∅ 6.3mm, lasts 3min | |
| | Waterproof performance test | The water spray pressure 0.02MPa, volume 0.75m ⁻³ h,diameter 6.3mm, and the water spray lasts for 3mi | | |
| Other test | Flame Retardant test | Blueview standard | Placed the sample vertically in the needle flame tester, the flame lasted for 10s and then observe the self-extinguishing time of the sample. | Pass |

packing



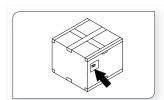
Prepare the desiccant and bind the product.



Seal the box.



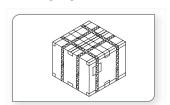
Put the product and desiccant into static shielding bag.



Label the box;



Seal and label the static shielding bag.



Use packing belt to pack after adding the edge protectors.



Put the static shielding bag side by side into carton box.

Packaging information

| Model No. | Product Size L*W*H(mm) | Carton Size(mm) | PCS/Bag | Bag/Carton Box | Net Weight(kg) | Gross Weight(kg) |
|--------------|------------------------|-----------------|---------|----------------|----------------|------------------|
| AV0114_BET-E | 48*13*7.5 | 390*390*325 | 120 | | | |
| AV0113_BET-E | 68*13*7.5 | 390*390*325 | 100 | 20 | 15.50(1±10%) | 17.50(1±10%) |

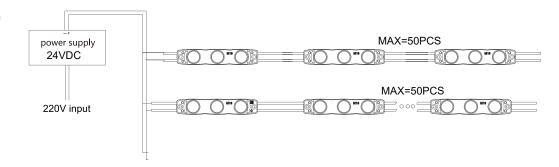
Note: the above quantity and weight are only for the illustrated packaging method. there will be differences in the quantity and weight with other packaging methods.



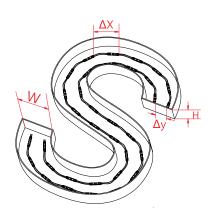
AV0113_BET-E (3 LED)

Installation

Connection Diagram



Irregular light box (Font logo, etc)



Test Data

| Depth(H) | Illumination (lux) | Font width (W) | Spacing (△ X) | Visual Effects |
|----------|-----------------------|----------------|----------------|-------------------|
| 5 | 16000 | 6cm | 9cm | |
| 6 | 10000 | 6cm | 11cm | |
| 8 | 6500 | 11cm | 15cm | OK |
| 10 | 2860 | 17cm | 15cm | |
| 12.5 | 1180 | 34cm | 15cm | |

| Depth(H) cm | Illumination (lux) | Font width (W) | Spacing (△ X) | Spacing (△ Y) | Visual Effects |
|----------------|-----------------------|----------------|----------------|----------------|-------------------|
| 5 | 1 | 1 | / | / | |
| 6 | 1 | 1 | / | / | |
| 8 | 14000 | 11cm | 15cm | 5cm | ок |
| 10 | 6000 | 17cm | 15cm | 9cm | |
| 12.5 | 2700 | 34cm | 15cm | 17cm | |

Note:

The above data are obtained when AV0113_BET-E uses a white bottom material and a 3mm acrylic plate as the transparent material at the bottom of the lamp box; For illuminance data of other depths or illuminance data of other models, please contact the salesperson for requirements

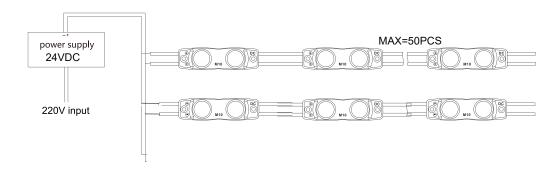
The above figure is only a schematic diagram. Please refer to the real object for detail



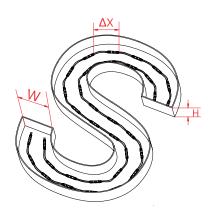
AV0114_BET-E (2 LED)

Installation

Connection Diagram



Irregular light box (Font logo, etc)



Test Data

| Depth(H) | Illumination (lux) | Font width (W) | Spacing (△ X) | Visual Effects |
|----------|-----------------------|----------------|----------------|-------------------|
| 5 | 10800 | 6cm | 9cm | |
| 6 | 6800 | 6cm | 11cm | |
| 8 | 5600 | 11cm | 12cm | OK |
| 10 | 2430 | 17cm | 12cm | |
| 12.5 | 1000 | 34cm | 12cm | |

| Depth(H) cm | Illumination (lux) | Font width (W) | Spacing (△ X) | Visual Effects |
|----------------|-----------------------|----------------|----------------|-------------------|
| 5 | 1 | 1 | / | |
| 6 | 1 | 1 | / | |
| 8 | 12000 | 11cm | 12*5cm | ОК |
| 10 | 5000 | 17cm | 12*9cm | |
| 12.5 | 2300 | 34cm | 12*17cm | |

Note:

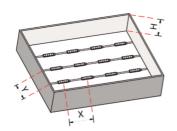
The above data are obtained when AV0114_BET-E uses a white bottom material and a **3mm acrylic plate** as the transparent material at the bottom of the lamp box; For illuminance data of other depths or illuminance data of other models, please contact the salesperson for requirements

The above figure is only a schematic diagram. Please refer to the real object for detail



Regular light box

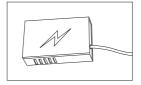
| Model No | Surface Material | Depth(H) cm | Illumination (lux) | Evenness | Density (pcs/m²) | Spacing (X*Y) | Power Density (W/m²) | Visual Effects |
|---------------|------------------------------|----------------|-----------------------|----------|---------------------|------------------|-------------------------|-------------------|
| | | 6 | 5970-7190 | 0.83 | 10*10 | 10*10 | 120 | |
| | | 8 | 3840-4570 | 0.84 | 8*8 | 12*12 | 77 | |
| AV/0442 DET E | AV0113_BET-E White Soft Film | 10 | 2770-3260 | 0.85 | 7*7 | 14*14 | 59 | ОК |
| AVUIT3_BET-E | | 12 | 2450-2820 | 0.87 | 7*7 | 14*14 | 59 | |
| | | 15 | 2050-2280 | 0.90 | 7*7 | 14*14 | 59 | |
| | | 18 | 1668-1833 | 0.91 | 7*7 | 14*14 | 59 | |



Note:

- 1. X indicates the horizontal center spacing between modules;
- 2. Y indicates the longitudinal center spacing between modules;
- 3. Single LED modules are arranged in a square, X=Y.
- 4. When the depth of lightbox H>18cm, use more products to satisfy Illumination demand.
- 5. Light Box Bottom is White
- 6. Please ask the sales for other data.

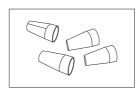
Accessories & Tools







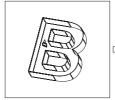
Diagonal pliers

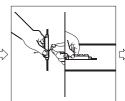


Connection terminal

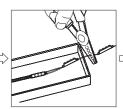
Installation steps

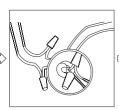
Installation steps

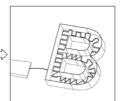














- 1.Clean the mounting surface.
- 2.Peel away the release paper on the back of led modules and stick them onto mounting surface.
- 3. Evenly arrange the led modules with appropriate space.
- 4.Cut the modules according to the requirements and treat the cut place with insulation and waterproof arrangement.

 Note: Cut in the middle of the wire.
- 5.If the product needs to be connected, it is better to fix with connection ends.

Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.

6.Make sure the correct connection of positive and negative poles between led module and power supply.

Note: Treat the thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.

Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation, waterproof and anti-corrosive treatment.
- After installing, the fabric light box must be covered with cloth within 48 hours and avoid long-term idle after installed.

Common Faults and Troubleshoot

| | Quick Guide | | |
|--|--|--|--|
| Problems | Reasons | Solutions | |
| | No electric supply. | | |
| All LEDs can not light on. | Automatic power protection from the open or short circuit in output of the power supply. | Fix the short circuit problem. | |
| | Wrong connection of power supply. | | |
| Some switching mode power supplies are not powered. | | | |
| LEDs can not light on partly. | Power supply line error. | Correctly connection. | |
| | Mistaken wire connection of some of products | | |
| | Power overloaded. | Replace with more powerful power. | |
| Brightness of LED is inconsistent tor insufficient. | Power supply circuit excessive consumption. | Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption. | |
| Excessive quantities in series connection of the product | | Reduce the quantities of the product in series connection to meet requirement. | |
| Connection point fault. | | Remove bad connection point. | |
| LED flicker. | Switching power supply failure. | Replace a new power supply. | |
| | Wrong Installation or use of products | Please follow the instructions | |



Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 24 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements and Recycling

Statements:

- Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only.
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling:

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.