



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 | 20 | 20 | -20~+60°C | -20~+70°C |
| AV0113_BET-E | 3 | 68*13*7.5 | 20 | 20 | -20~+60 C | -20~+70 C |

NOTE:

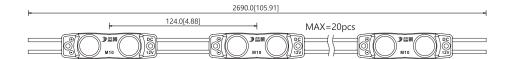
- 1. Test environment temperature : 25±2°C.
- 2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
- 3. Different color temperature will make luminous flux different.
- 4. Power tolerance within ±10%.
- 5. The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

Profile Drawings

Unit:mm[inch]

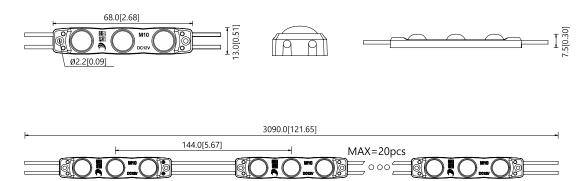
AV0114CBET-E







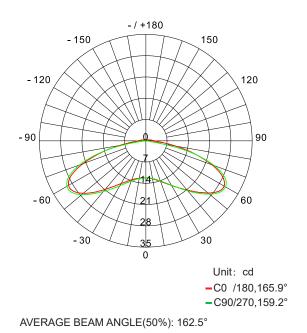
AV0113_BET-E

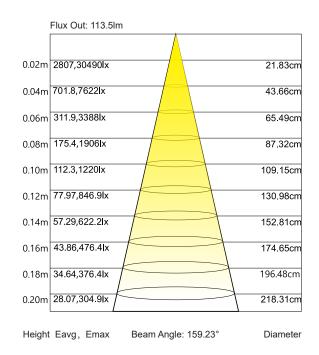


Note: For detail drawing, please consult sale rep.

Luminous Intensity Distribution Diagram

Average Illumination





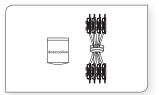
Note: the above two figures are tested with the sample AV0113_BET-E, for other data, please consult sale rep.



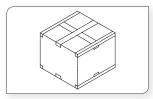
Reliability Test

| 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 3min. | |
| 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 |

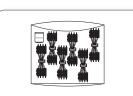
packing



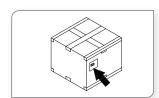
Prepare the desiccant and bind the product.



Seal the box.



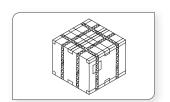
Put the product and desiccant into static shielding bag.



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.

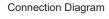
Packaging information

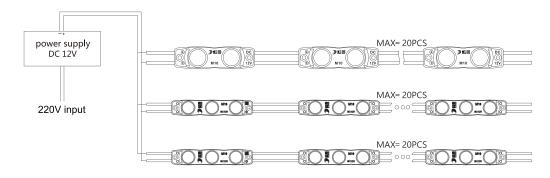
| Model No. | Product Size L*W*H(mm) | Carton Size(mm) | PCS/Bag | Bag/Carton Box | Net Weight(kg) | Gross Weight(kg) |
|--------------|------------------------|-----------------|---------|----------------|----------------|------------------|
| AV0114_BET-E | 48*13*7.5 | 390*390*325 | 120 | | | |
| AV0113_BET-E | 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.

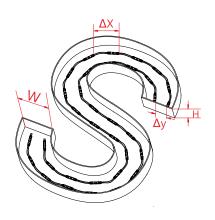


Installation





Irregular light box (Font logo, etc)



Test Data

| Depth(H) cm | 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:

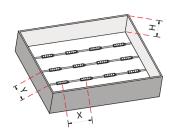
The above data are obtained when AV0113_BET-E uses a white bottom material and a 3mm acrylic plate as the transparent material at the bottom of the lamp box; For illuminance data of other depths or illuminance data of other models, please contact the salesperson for requirements

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



Regular light box

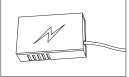
| Model No | Surface Material | Depth(H) cm | Illumination (lux) | Evenness | Density (pcs/ m²) | Spacing (X*Y) | Power Density (W/ m²) | Visual Effects |
|--------------|---------------------|----------------|-----------------------|----------|----------------------|------------------|--------------------------|-------------------|
| | | 6 | 5970-7190 | 0.83 | 10*10 | 10*10 | 120 | |
| | | 8 | 3840-4570 | 0.84 | 8*8 | 12*12 | 77 | |
| White S | White Soft | 10 | 2770-3260 | 0.85 | 7*7 | 14*14 | 59 | ок |
| AVUIT3_BET-E | AV0113_BET-E Film | 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 | |



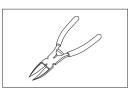
Note:

- 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.

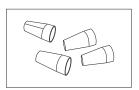
Accessories & Tools







Diagonal pliers

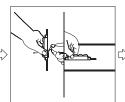


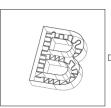
Connection terminal

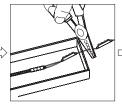
Installation steps

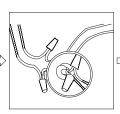
Installation steps

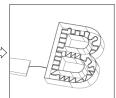














- 1.Clean the mounting surface.
- 2.Peel away the release paper on the back of led modules and stick them onto mounting surface.
- 3. Evenly arrange the led modules with appropriate space.
- 4.Cut the modules according to the requirements and treat the cut place with insulation and waterproof arrangement. 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. | | | | | | | |
| LEDs can not light on partly. | Some switching mode power supplies are not powered. | | | | | | | |
| LEDS CAIT 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.