

Bar Light  
NV-BR series

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## Bar Light NV-BR series

High bright bar lights are combined with high bright and high-density LED array, shells are made with Al-Mg alloy, add multiple heat sinks offered good condition for the stable use of high bright LED particles, more convenient and flexible installation.



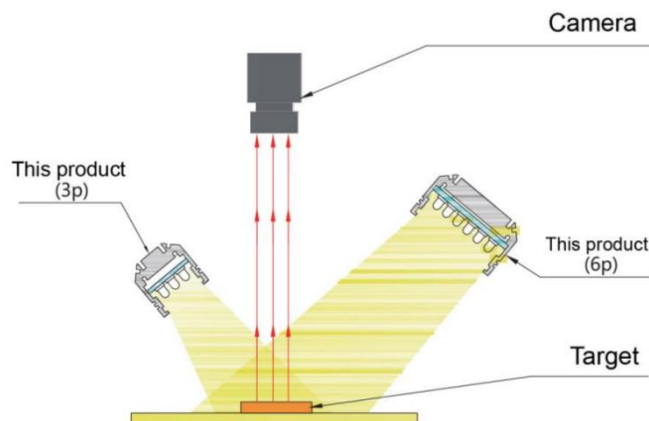
### Features

- ◇ High brightness, high density LED array
- ◇ Diffuse board is optional, increase the uniformity of lights
- ◇ Use wave-soldering technology, nuts on the back can move any distance, make the installation easier
- ◇ Mold was designed in form, available be cut in any dimensions
- ◇ Good heat dissipation

### Application Areas

- ◇ Inspect the general appearance of huge products
- ◇ Inspect the package defects
- ◇ Inspect the defects of large size LCD panels
- ◇ Inspect the flatness & the true position of connector
- ◇ Inspect the surface scratches, marks, breakages , margins, etc.

### Illumination constructure



Selection Guide

| NV         | BR        | ##                      | 12/27                  | R/G/B/W/UV/IR |
|------------|-----------|-------------------------|------------------------|---------------|
| New vision | Bar Light | Length of emitting area | Width of emitting area | Color         |

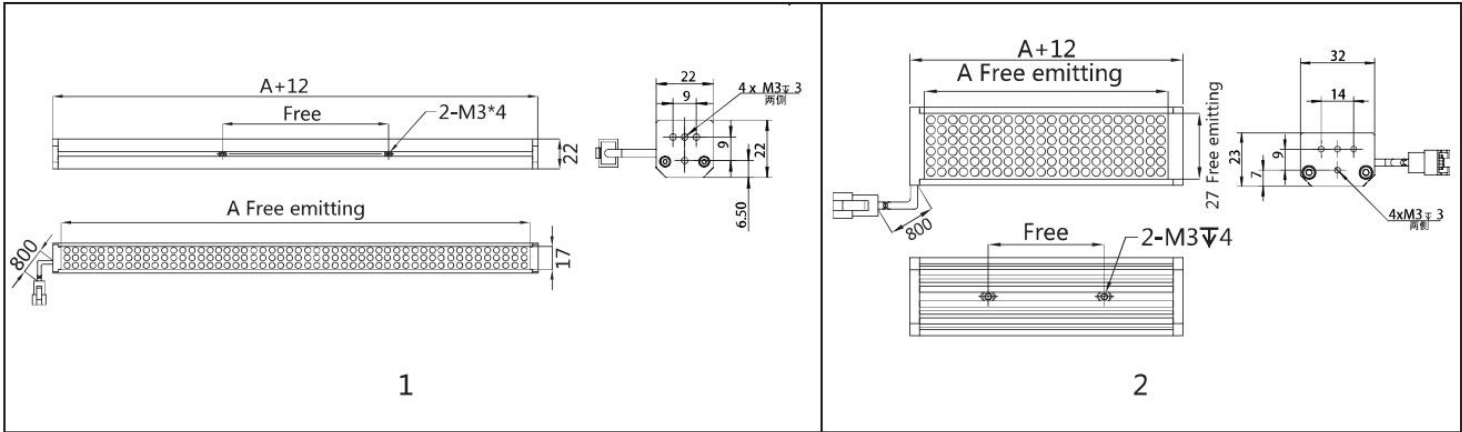
Technical Index

|                       |                                                                                                                      |                 |                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|----------------|
| Color<br>(Wavelength) | Red:620-630nm                                                                                                        | Green:525-530nm | Blue:465-470nm |
|                       | White color temperature<br>6600-7000K                                                                                | UV:365-395nm    | IR:850/940nm   |
| Operating environment | Temperature:0 to 5 0°C,Humidity:20% to 85% RH                                                                        |                 |                |
| Life time             | 100,000hrs theoretical service time(Depends on the operating environment, not a guarantee.)                          |                 |                |
| Compatible Controller | Analog Controller, Digital Controller, Constant Current Controller                                                   |                 |                |
| Optional Accessory    | 1.Lights source and lens adaptor.                                                                                    |                 |                |
|                       | 2.Diffusion plate,Polarizing plate. (Opational transmittance:60%,70%,80%,90%)                                        |                 |                |
|                       | 3.Extension cable:1m/2m/5m/10m/15m(2 kinds of materials of the shell of wire:PVC of hardness; silicone of softness.) |                 |                |
| Warranty              | One year warranty,Free samples and technical support(buyers pay for the freight)                                     |                 |                |
| Lights customization  | Provide design and development service according to individual needs of customers.To reach the best image effects.   |                 |                |

## Light parameters(voltage is 24V)

| Mold               | Model        | Color<br>(R/G/B/W)                                                                  | Power(W)                                                                                    |                                                                                             | Dimentions              |                   | Quantity<br>of row | Installation<br>Picture<br>Number |
|--------------------|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------|-------------------|--------------------|-----------------------------------|
|                    |              |                                                                                     | Output<br> | Output<br> | Emitting<br>Length<br>A | Emitting<br>width |                    |                                   |
| Bar<br>Light<br>3P | NV-BR2710-   |    | 0.42W                                                                                       | 0.5W                                                                                        | 27                      | 10                | 2                  | 1                                 |
|                    | NV-BR3410-   |    | 0.52W                                                                                       | 0.62W                                                                                       | 34                      | 10                | 2                  |                                   |
|                    | NV-BR5317-   |    | 0.87W                                                                                       | 1.32W                                                                                       | 53                      | 17                | 3                  |                                   |
|                    | NV-BR6217-   |    | 1.02W                                                                                       | 1.54W                                                                                       | 62                      | 17                | 3                  |                                   |
|                    | NV-BR8017-   |    | 1.31W                                                                                       | 1.98W                                                                                       | 80                      | 17                | 3                  |                                   |
|                    | NV-BR9017-   |    | 1.45W                                                                                       | 2.2W                                                                                        | 90                      | 17                | 3                  |                                   |
|                    | NV-BR9817-   |    | 1.6W                                                                                        | 2.42W                                                                                       | 98                      | 17                | 3                  |                                   |
|                    | NV-BR13217-  |    | 2.18W                                                                                       | 3.3W                                                                                        | 132                     | 17                | 3                  |                                   |
|                    | NV-BR15017-  |    | 2.47W                                                                                       | 3.74W                                                                                       | 150                     | 17                | 3                  |                                   |
|                    | NV-BR18517-  |    | 3.05W                                                                                       | 4.62W                                                                                       | 185                     | 17                | 3                  |                                   |
|                    | NV-BR20317-  |    | 3.34W                                                                                       | 5.06W                                                                                       | 203                     | 17                | 3                  |                                   |
|                    | NV-BR24817-  |    | 4.06W                                                                                       | 6.16W                                                                                       | 348                     | 17                | 3                  |                                   |
|                    | NV-BR28217-  |    | 4.64W                                                                                       | 7.04W                                                                                       | 282                     | 17                | 3                  |                                   |
|                    | NV-BR30017-  |   | 4.9W                                                                                        | 7.48W                                                                                       | 300                     | 17                | 3                  |                                   |
|                    | NV-BR35217-  |  | 5.8W                                                                                        | 8.8W                                                                                        | 352                     | 17                | 3                  |                                   |
|                    | NV-BR40017-  |  | 6.5W                                                                                        | 9.86W                                                                                       | 396                     | 17                | 3                  |                                   |
|                    | NV-BR60017-  |  | 9.84W                                                                                       | 14.92W                                                                                      | 600                     | 17                | 3                  |                                   |
|                    | NV-BR80017-  |  | 13W                                                                                         | 19.72W                                                                                      | 801                     | 17                | 3                  |                                   |
|                    | NV-BR100017- |  | 16.3W                                                                                       | 24.78W                                                                                      | 1004                    | 17                | 3                  |                                   |
|                    | NV-BR150517- |  | 24.4W                                                                                       | 37.06W                                                                                      | 1505                    | 17                | 3                  |                                   |
| Bar<br>Light<br>6P | NV-BR5027-   |  | 1.31W                                                                                       | 1.98W                                                                                       | 50                      | 27                | 6                  | 2                                 |
|                    | NV-BR7027-   |  | 1.89W                                                                                       | 2.86W                                                                                       | 70                      | 27                | 6                  |                                   |
|                    | NV-BR9827-   |  | 2.61W                                                                                       | 3.96W                                                                                       | 98                      | 27                | 6                  |                                   |
|                    | NV-BR15027-  |  | 4.06W                                                                                       | 6.16W                                                                                       | 148                     | 27                | 6                  |                                   |
|                    | NV-BR20027-  |  | 5.37W                                                                                       | 8.14W                                                                                       | 200                     | 27                | 6                  |                                   |
|                    | NV-BR30027-  |  | 7.98W                                                                                       | 12.1W                                                                                       | 300                     | 27                | 6                  |                                   |
|                    | NV-BR35027-  |  | 9.29W                                                                                       | 14.08W                                                                                      | 350                     | 27                | 6                  |                                   |
|                    | NV-BR40027-  |  | 10.59W                                                                                      | 16.06W                                                                                      | 400                     | 27                | 6                  |                                   |
|                    | NV-BR45027-  |  | 12.33W                                                                                      | 18.7W                                                                                       | 450                     | 27                | 6                  |                                   |
|                    | NV-BR50027-  |  | 13.2W                                                                                       | 20W                                                                                         | 500                     | 27                | 6                  |                                   |
|                    | NV-BR60027-  |  | 15.96W                                                                                      | 24.24W                                                                                      | 600                     | 27                | 6                  |                                   |
|                    | NV-BR80027-  |  | 22.2W                                                                                       | 33.22W                                                                                      | 800                     | 27                | 6                  |                                   |
|                    | NV-BR100027- |  | 27.57W                                                                                      | 41.36W                                                                                      | 1000                    | 27                | 6                  |                                   |

# Installation diagram



# Applications

- ◇ Inspect the appearance of arcuate surface
- ◇ Model:NV-BR10017-W(use 2 pcs)
- ◇ Inspect the scratches on the surface of bearings,because the metal surface are reflective, so there will come out shadow if illuminate from front, but illuminate from right and left sides, the defects will appear more obviously under the dark field.
- ◇ Inspect the circuit board characters
- ◇ Model:NV-BR20017-R
- ◇ Use cold and warm colors to make the background appears dark, but the characters turn out bright, so we can see the characters quite clearly after the diffusion.
- ◇ Inspect the cigarettes bar code characters
- ◇ Model:NV-BR8017-W(Mating diffuse plate)
- ◇ Use bar light to illuminate the characters from any angle, so we can see the characters quite clearly after the diffusion.

