

Monster-Series Back Lights



Spectrum Illumination's **Monster-Series Back Lights** are designed to create high contrast silhouettes for high speed Machine Vision Applications.

They can also be used to create diffused front lighting because of the high intensity of the LED's. These are 5-10 times brighter than the standard series depending on the color.

Units come with light, driver(s) / controller(s) and cable.

Series highlights

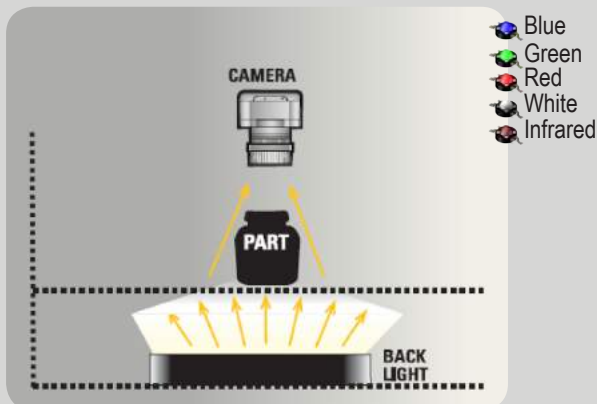
- External driver/controller included
- HS (high speed) strobe technology
- High Power LED's (24 VDC)
- DIN rail mount driver/controller
- M12 connector for quick disconnect
- Available in 4 colors and Infrared
- Available in 5 sizes
- 10 Year warranty* - 100,000 hours

Application examples

- Diffuse incident (front) lighting
- Diminish clear glass or plastic housings
- High speed bottling and canning operations
- Locate mounting holes
- Locate or measure outside dimensions
- Measure translucency
- View openings (e.g. drilled holes)



Units come with light, driver(s) / controller(s) and cable.



*10-Year warranty on registered products
 *6-Year warranty on non-registered products
 *3-year warranty on washdown lights
 spectrumillumination/limited-warranty/



Spectrum Illumination's **Standard-Series Back Lights** are designed to create high contrast silhouettes for Machine Vision Applications. They can



also be used to create front lighting in cases where minimal lighting is needed. Our lights are built using Modular Board Technology (MBT). Because we use MBT we can make any size back light in 1" (25.4mm) by 2" (50.8mm) incremental dimensions.

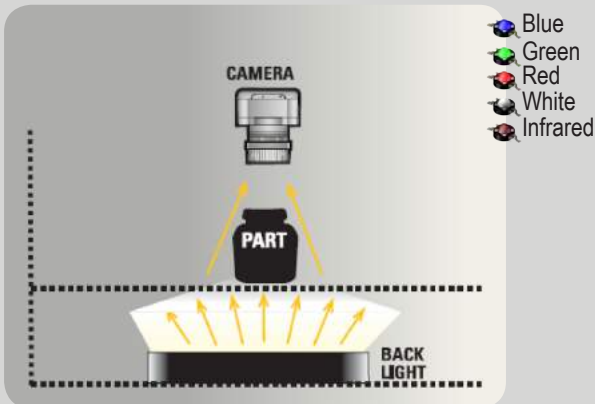
Standard-Series Back Lights

Units come with light and cable.

Series Highlights

- No driver/controller required
- HS (High Speed) Strobe Technology
- 24 VDC
- M12 connector for quick disconnect
- Available in 4 colors and Infrared
- Available in 25+ sizes plus custom sizes
- 10 Year Warranty* - 100,000 hours

Units come with light and cable.



*10-Year warranty on registered products

*6-Year warranty on non-registered products

*3-year warranty on washdown lights
spectrumillumination/limited-warranty/

Application Examples

- Automotive and aerospace processing
- Custom conveyor
- Defects on surfaces
- Inspection
- Locate mounting holes
- Pharmaceutical
- View openings (e.g. drilled holes)

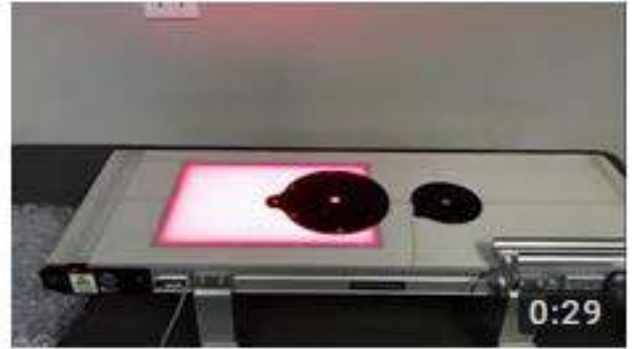
Case Study - Product Application



Embedded Back Light - Conveyor & Pick n Place Robot

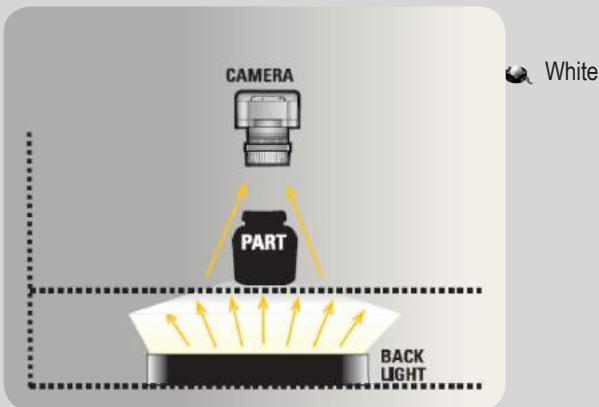


Solution: BL1212 - WHI
Embedded Option:



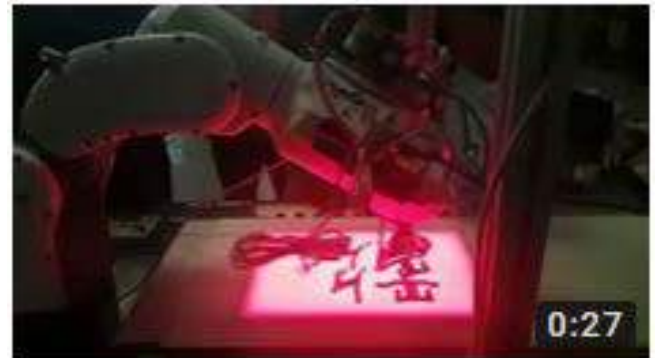
Spectrum Illumination
Embedded Back Light

Illumination - Inspection Setup



Vision & Automation Opportunity:

Lighting conveyors and assembly lines to meet the demands of today's advanced manufacturing environment can be a challenge. Custom embedding back lights into conveyors and assembly lines is standard for Spectrum Illumination.



Nachi MZ04 with Datalogic
Vision System Pick n place

Vision & Automation Solution:

SI Engineering Lab mocked up the opportunity. SI Engineer applied back light, removed diffuser mounting screws from the top of the light. Diffuser is now secured to the light from inside the unit. BL1212-WHI Standard Series Back Light was the perfect solution. 24 VDC to match the conveyor setup with no driver required. Smart camera identifies parts on the conveyor and assembly line. Robot used the machine vision solution to Pick n Place parts.