



Spectrum Illumination's **Monster-Series Xtreme Linear Lights** are designed for bright field and dark field illumination. X-Series Linear Lights

have an aluminum circuit board and single interface housing to dissipate heat. X-Series Burst 3.5x capabilities are protected by thermal auto-resetting circuit.

Units come with light assembly.

Series Highlights

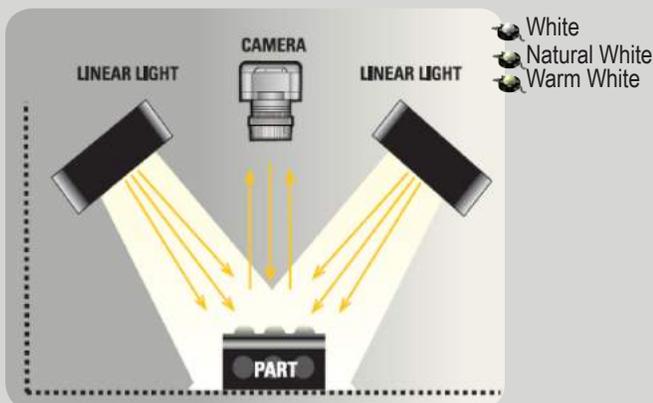
- Internal driver/controller included
- Auto Burst 3.5x Technology
- Ultra-High Power LED's (24 VDC)
- M12 connector for quick disconnect
- PNP and NPN inputs
- Thermal Protection
- Modular end-to-end design
- Available in 3 colors
- Available in 2 sizes and 40mm Spot Light
- 10 Year Warranty* - 100,000 hours

Application Examples

- Automotive and aerospace processing
- Defects and surfaces
- Inspection
- Large surface inspection
- OCR
- Packaging
- Print control



Units come with light assembly.



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



Monster-Series Linear “Bright Field” Lights

Spectrum Illumination’s Monster-Series Linear “Bright Field” Lights are designed to provide high-intensity illumination of large areas, at long distances.

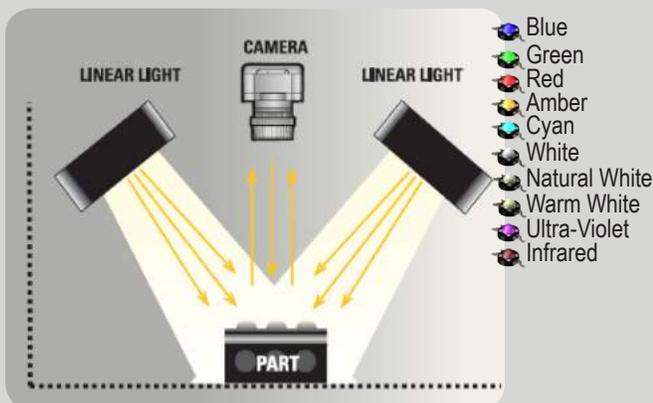


Units come with light, driver(s) / controller(s) and cable.

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 8 colors, Ultra-Violet, and Infrared
- Available in 14 sizes
- 10 Year Warranty* - 100,000 hours

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



Application Examples

- Food and Beverage
- High speed bottling and canning operations
- Inspection
- Measure translucency
- Pharmaceutical
- Robotic Applications

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Case Study - Product Application



Paper Inspection

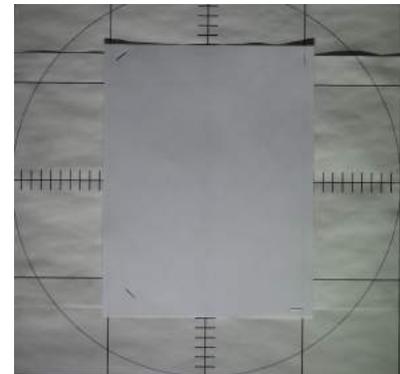
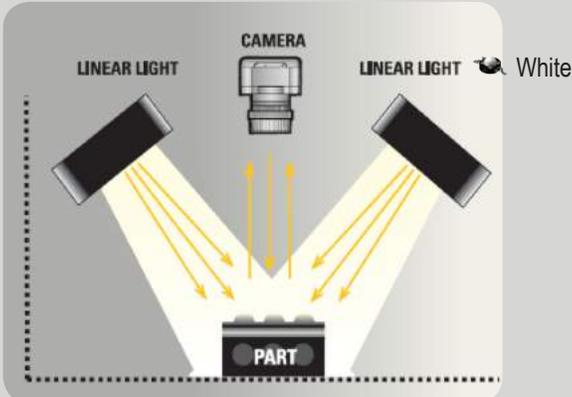


Solution: MLL 117.25 - WHI Quantity = 4
LED Optics 16 degree frosted, 15 degree light mounting angle, light 22" from target with diffuser.



Metal Staples.

Illumination - Inspection Setup



Illuminated paper with staples in 4 corners.

Vision & Automation Opportunity:

Customer's paper inspection process needed a solution to identify staples in the paper. All metal staples and foreign objects must be removed before paper is recycled. Production speed must be maintained while identifying and removing rejected materials.

Vision & Automation Solution:

SI Engineering Lab mocked up the opportunity. SI Engineer applied LED lens Optic types, light mounting angles, camera lenses and product positioning to develop repeatable quality testing solution. Spectrum Illumination's MLL117.25 Linear Light in White (Qty 4), LED Optics - 16 Degree Frosted, 15 degree light mounting angle, light 22" from target. Smart camera identifies staples in paper.



Standard-Series Linear “Bright Field” Lights

Spectrum Illumination’s Standard-Series Linear “Bright Field” Lights are designed to provide high-intensity illumination of large areas, at long distances.

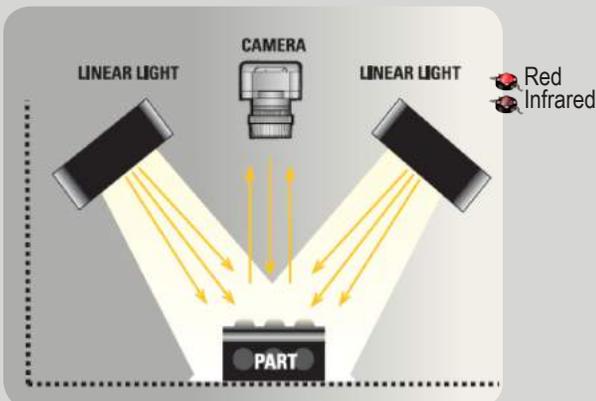


Units come with light and cable.

Series Highlights

- No driver/controller required
- HS (High Speed) Strobe Technology
- 24 VDC
- M12 connector for quick disconnect
- Available in Red and Infrared
- Available in 6 sizes
- 10 Year Warranty* - 100,000 hours

Units come with light and cable.



Application Examples

- Food and Beverage
- High speed bottling and canning operations
- Inspection
- Measure translucency
- Pharmaceutical
- Robotic Applications

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

E-Series Linear Lights



Spectrum Illumination's **E-Series Linear Lights** are used for both bright field and dark field illumination. E-Series Linear Lights have an aluminum circuit board and single interface housing to dissipate heat. E-Series Burst 3.5x capabilities are protected by an auto-resetting circuit.

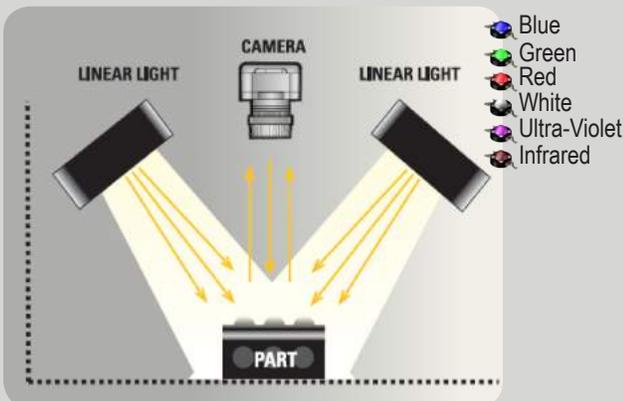


Units come with light and cable.

Series Highlights

- Internal driver/controller included
- Auto Burst 3.5x Technology
- Thermal Protection to reduce downtime
- High Power LED's (24 VDC)
- M12 connector for quick disconnect
- Available in 4 colors, Ultra-Violet, and Infrared
- Available in 3 sizes and 40mm Spot Light
- 10 Year Warranty* - 50,000 hours

Units come with light and cable.



Application Examples

- Automotive and aerospace processing
- Defects on surfaces
- Inspection
- Large surface inspection
- OCR Optical Character Reading
- Packaging
- Print control

*10-Year warranty on registered products
 *6-Year warranty on non-registered products
 *3-year warranty on washdown lights
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Case Study - Product Application



Dental Implant Inspection

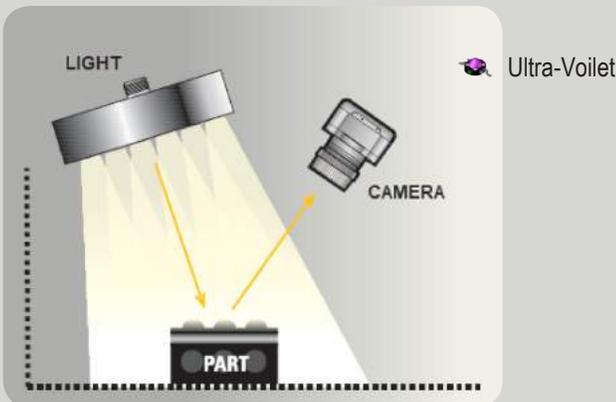


Solution: EL 300-395 UV, Optics 16 degree.



Dental Implants.

Illumination - Inspection Setup



Dental Implants under UV linear light.

Vision & Automation Opportunity:

Dental implant inspection for quality and material consistency. Teeth, one of the most important factors in human physical and mental health require consistent look and feel. Manufacturing is not an exact science therefore inspection is required. Inspection is for spots and finish damage.

Vision & Automation Solution:

SI Engineering Lab mocked up the opportunity. SI Engineer applied LED lens Optic types, light mounting angles, camera lenses and product positioning to develop repeatable quality testing solution. Spectrum Illumination's EL 300-395 UV Linear Light, LED Optics - 16 Degree Frosted, 15 degree light mounting angle, light 22" from target. Smart camera identifies spots and surface damage.