



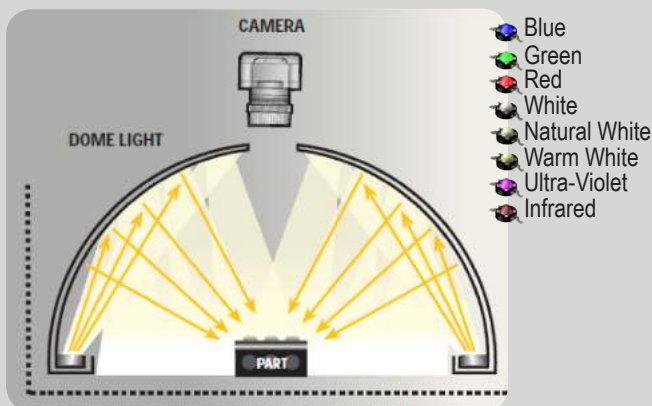
Monster-Series Multi-Channel Dome Lights

Spectrum Illumination's **Monster-Series Multi-Channel Dome Lights** can support 1-4 channels of LEDs and is used to create even lighting on shiny or uneven surfaces. This model is designed from light weight aluminum boards with a fiberglass dome to reflect multi angle light onto the field of view. Dome lights eliminate hotspots and shadows. Use our Diffused Axial Light to eliminate the appearance of the camera viewing port of the dome on "mirrored surfaces."



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

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

Series Highlights

- External driver/controller included
- HS (High Speed) Strobe Technology
- High Power LED's (24 VDC)
- Support up to 4 preloaded LED color options
- Custom Color LED's available
- M12 connector for quick disconnect
- Available in 6 colors, Ultra-Violet, and Infrared
- Available in 1 size
- 10 Year Warranty* – 100,000 hours

Application Examples

- Automotive and aerospace processing
- Defects on surfaces
- Inspection
- Packaging
- Pharmaceutical

Case Study - Product Application

Food Packaging Inspection

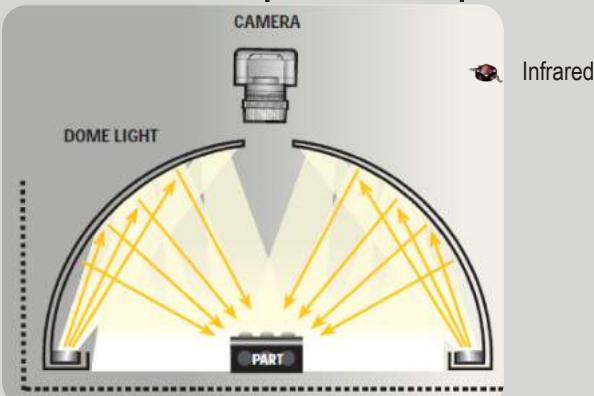


Solution: DL180-850 IR
0.8ms Shutter Speed, Infrared removed color.



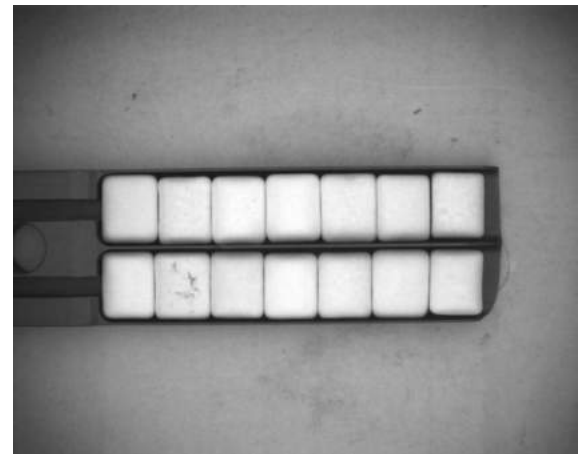
Multi color classic hard shelled chewing gum.

Illumination - Inspection Setup



Vision & Automation Opportunity:

Customer needed to improve quality control of their gum packaging. Color of the gum was not an issue. Packaging inspection requirements: Number of items and quality of gum per package. Production speed must be maintained while enhancing the quality inspection process to maintain product margins.



IR light removes color and retains material texture.

Vision & Automation Solution:

SI Engineering Lab mocked up the opportunity. SI Engineer applied IR to remove color, camera lenses and product positioning to develop repeatable quality testing solution. Spectrum Illumination's DL180-850 (Dome Light in Infrared), 0.8ms shutter speed. Smart camera identifies package count and product quality.



Spectrum Illumination's **Monster-Series Dome Lights** are used to create even lighting on shiny or uneven surfaces. This model is designed from light weight fiberglass to reflect multi angle light onto the field of view.. Dome lights eliminate hotspots and shadows. Use our Diffused Axial Light to eliminate the appearance of the camera viewing port of the dome on "mirrored surfaces."

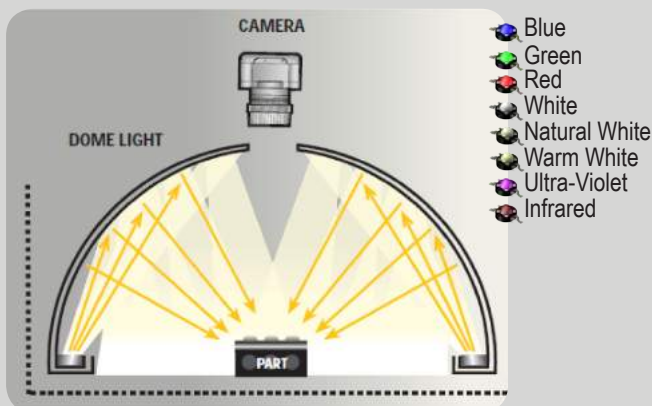


Units come with light, driver(s) / controller(s) and cable.

Series Highlights

- External driver/controller included
- HS (High Speed) Strobe Technology
- High Power LED's (24 VDC)
- Custom Color LED's available
- Multi-channel option (DL-180) available
- M12 connector for quick disconnect
- Available in 6 colors, Ultra-Violet, and Infrared
- Available in 4 sizes
- 10 Year Warranty* – 100,000 hours

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
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Application Examples

- Automotive and aerospace processing
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Case Study - Product Application

Game Controller Inspection

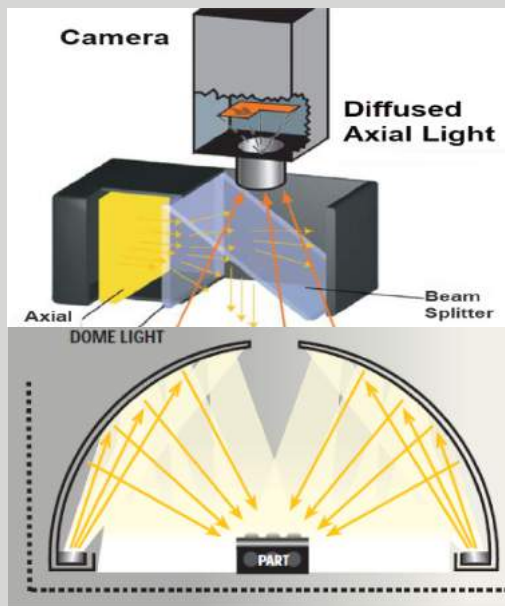


Solution: MDL12.25-WHI & MDA2-WHI



Very reflective surface - Xbox 360 Game Controller.

Illumination - Inspection Setup



Dome light removes glare, Diffused Axial light removes the image of the hole from the dome.

Vision & Automation Opportunity:

Customer needed to validate that the center hand label is applied to controller. Production speed must be maintained while enhancing the quality inspection process to maintain product standards.

Vision & Automation Solution:

SI Engineering Lab mocked up the opportunity. SI Engineer applied white lights, camera lenses and product positioning to develop repeatable quality testing solution. Spectrum Illumination's DL12.25-WHI & MDA2-WHI Smart camera identifies center label is applied to controller.

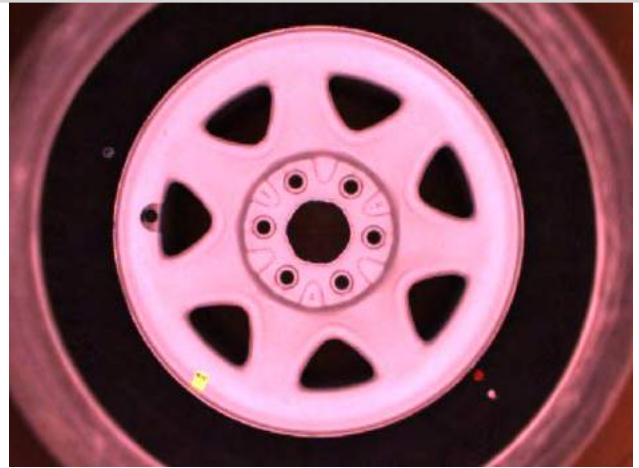
Case Study - Product Application



Tire - Wheel Inspection



Solution: DL29.25 - WHI
1.5ms Shutter Speed, red gain boost w/Color Camera.

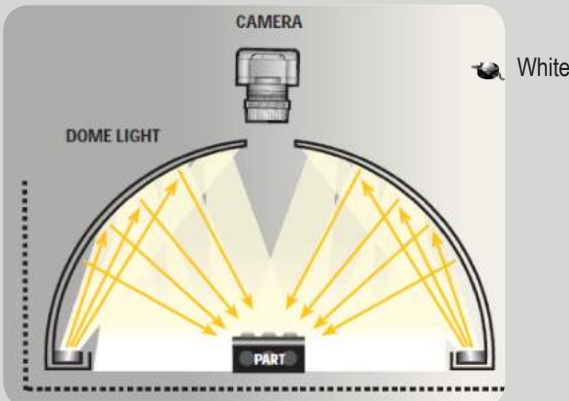


Aluminum Wheel with Red and Yellow Marks



Chrome Wheel with Red and Yellow Marks

Illumination - Inspection Setup



Vision & Automation Opportunity:

Customer's tire and wheel inspection wanted a solution to identify & verify key markings on the tire. Production speed must be maintained while enhancing the quality inspection process to maintain product margins and reduce product failure liability.

Vision & Automation Solution:

SI Engineering Lab mocked up the opportunity. SI Engineer applied light colors, camera lenses and product positioning to develop repeatable quality testing solution. Spectrum Illumination's DL29.25 Dome Light in White, color camera 1.5ms shutter speed with red gain boost. Smart camera identifies tire markings on both Chrome and Aluminum wheels.

Find Pattern Tool	PASS
Find Color Tool	PASS
Verify color	PASS

Contactez nous