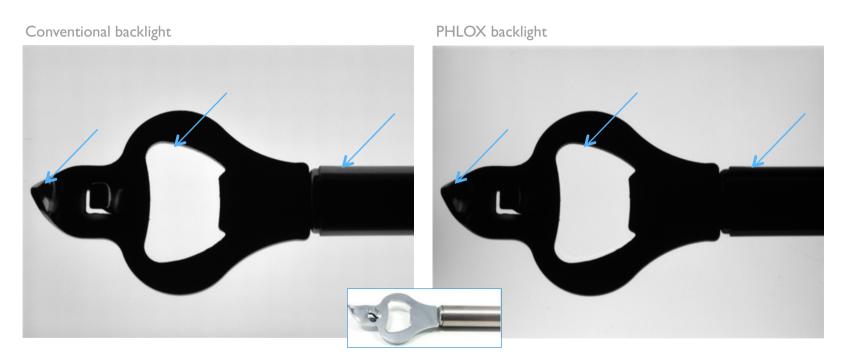


MAJOR ADVANTAGES:

- LESS STRAY LIGHT & BETTER CONTRASTS
- LESS THICK
- IP65, RATED, SCRATCH RESISTANT
- EXTREME UNIFORMITY
- ALL COLOURS AVAILABLE, SOLVE ANY APPLICATION WITH THE RIGHT WAVELENGHT
- CUSTOM SIZES WITH FAST DELIVERY



LESS STRAY LIGHT & BETTER CONTRASTS

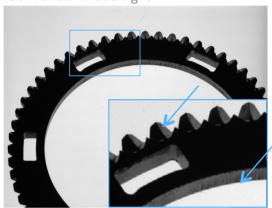


PHLOX backlights are more directed. Higher edge contrasts are created with shiny surfaces. This will cause more reliable applications and better measurement results.

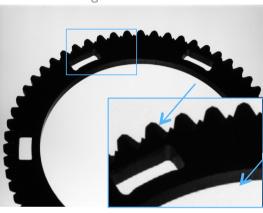


LESS STRAY LIGHT & BETTER CONTRASTS

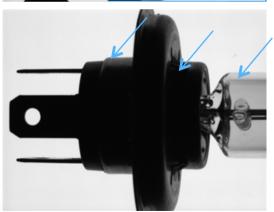
Conventional backlight

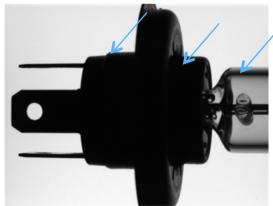








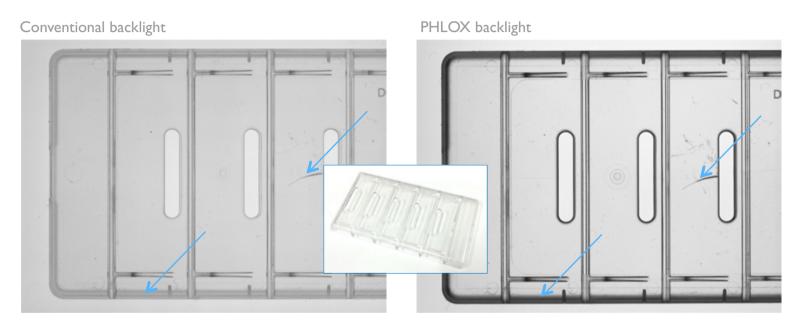








LESS STRAY LIGHT & BETTER CONTRASTS



PHLOX backlights emit more directed light.

Structures and cracks in transparent plastics and glass become more visible.



LESS THICK

Conventional backlight PHLOX backlight



PHLOX backlight with it's edge oriented LED design and light pipe diffusor techniques allow slim design factors.



IP65, RATED, SCRATCH RESISTANT







PHLOX backlight with monoblock aluminium body and sealed diffusor plate

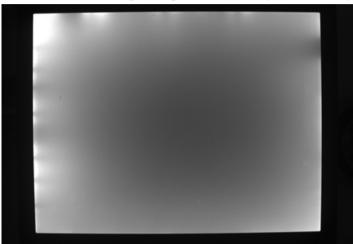
- Ideal for wet and harsh environments
- Scratch resistant Gorilla GlassTM available on demand





EXTREME UNIFORMITY





PHLOX backlight



PHLOX light pipe diffusor techniques create more homogeneity. Natural light falloff and shading effects are compensated.

Easier software programming and more stable results!



ADVANTAGE

ALL COLOURS AVAILABLE SOLVE ANY APPLICATION WITH THE RIGHT WAVELENGTH

PHLOX offers a full colour spectrum for it's illuminations. Red, Green, Blue, White, Full colour RGB or Infrared with different wavelengths will help to solve applications.













ALL COLOURS AVAILABLE

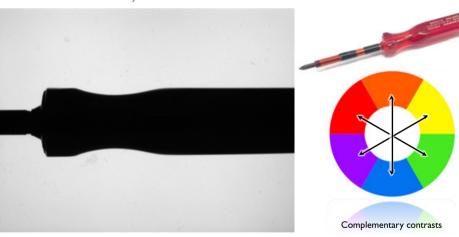
SOLVE ANY APPLICATION WITH THE RIGHT WAVELENGTH

INSPECTION OF COLOURED PARTS:

Red leds & red object



Green leds & red object



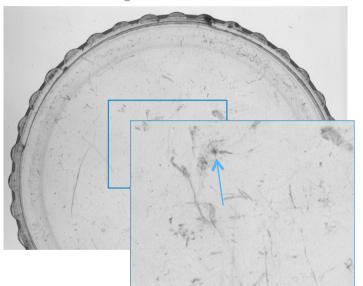
With identical lighting colour, the inspected semitransparent object will appear brighter, complementary colours will appear darker.



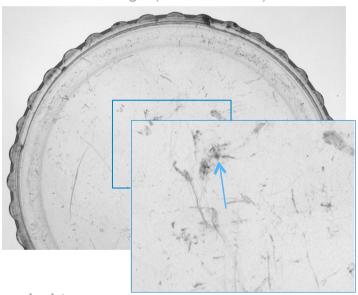
ALL COLOURS AVAILABLE SOLVE ANY APPLICATION WITH THE RIGHT WAVELENGTH







Blue PHLOX backlight (better contrasts)



Create contrasts with semitransparent, non coloured objects.

Blue wavelength creates more scattering light, less transmission.

More contrast helps to detect scratches.

(Scratches anyway better visible with collimated Phlox illumination. See slide 6)

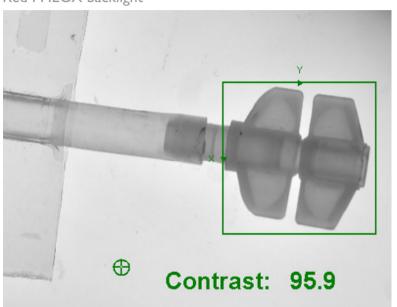




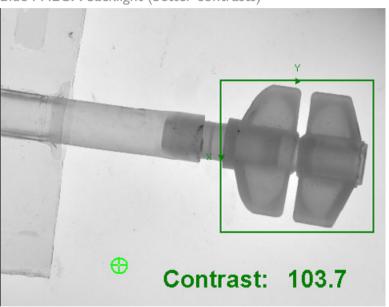
ALL COLOURS AVAILABLE SOLVE ANY APPLICATION WITH THE RIGHT WAVELENGTH







Blue PHLOX backlight (better contrasts)



Create contrasts with semitransparent objects.

Blue wavelength creates more scattering light, less transmission.

More contrast helps to detect small defects and causes more robust applications.

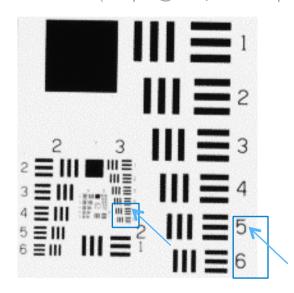


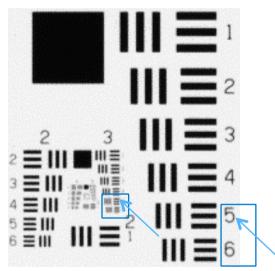


ALL COLOURS AVAILABLE SOLVE ANY APPLICATION WITH THE RIGHT WAVELENGTH

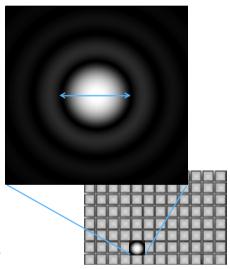
IR

Different optical limiting resolution More resolution using shorter wavelengths Blue vs Red (f-stop 8 @ 3.75µm sensor pixels)





"Airy disk" diameter (diameter of light spot, diffraction limited) 2.44 * f-number * wavelength







PHLOX Corp.

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