



# BIVAR

## Light Pipes

Rigid, Flexible Systems

**Q-FLEX**

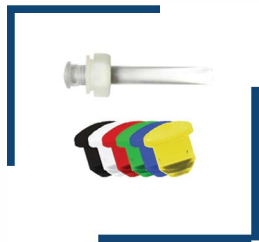
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# LED Light Where You Need It

New technology requires innovative solutions. Bivar LED light pipes provide new ways to move light to new places. Bivar products lead the way with the most comprehensive selection, immediate availability, and expert design support to tailor products into a custom application or complete system design. Work with the Light Pipe experts on your next design!

## Rigid Light Pipes



### Panel Press-Fit

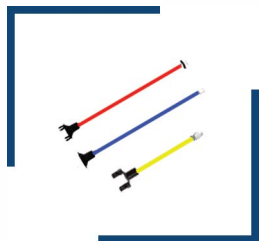
- Secure crush-rib design for easy press-fit installation into front or rear of panel.
- Light pipe base hovers very close to the LED without touching to capture maximum light output.
- Ideal for tight spaces and short distance applications .25" (6.4mm) to 3" (76.2mm).
- Options - Offered in a range of lens diameters, lens shapes, IP Ratings, and colors.



### Board Mount

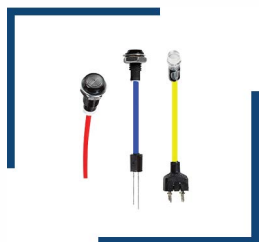
- Mounting posts secure vertical or right-angle light pipes to PCB for easy installation.
- Rear mount to panel. Available in single station or array configurations.
- Ideal for rugged short distance applications .2" (5.1mm) to 1.028" (26.1mm).
- Options - Offered in a range of lens diameters, lens shapes, IP Ratings, and colors.

## Flexible Light Pipes



### SMD LED Systems

- Board mount adapter with built-in through-hole LED.
- Optical fiber diameter 1mm or 2mm with lengths from 1" (2.54mm) to over 100' (30.48m).
- Ideal for longer distance rugged applications, routing around obstacles and impediments.
- Options - Range of optical fiber colors, lens diameters, shapes, IP Ratings, and panel profiles.



### Through-Hole LED Systems

- Board mount adapter with built-in through-hole LED.
- Optical fiber diameter 1mm or 2mm with lengths from 1" (2.54mm) to over 100' (30.48m).
- Ideal for longer distance rugged applications, routing around obstacles and impediments.
- Options - Range of optical fiber colors, lens diameters, shapes, IP Ratings, and panel profiles.

# Bivar Advantage

Bivar's technology innovation ensures dependable and effective directional light positioning guaranteeing ZeroLightBleed™, Ingress Protection, and LED Compatibility.

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## ZeroLightBleed™

Bivar ZeroLightBleed™ technology is available in Rigid and Flexible Light Pipe Systems. LED light is channeled directly to the lens thus eliminating disruptive light bleed in and around the circuit board environment. This means no false readings, muted or blended colors, or unwanted enclosure or chassis glow.



## Ingress Protection

Bivar actively introduces new IP Rated Light Pipes to its industry-leading portfolio. Rugged applications demand new form factors and reliable protection from operating environments. Bivar applies decades of ingress protection design experience to deliver high quality products that meet and exceed long lifespan requirements.

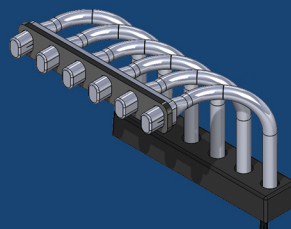
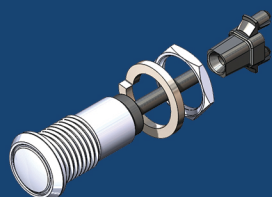



## LED Compatibility


Pairing Bivar high quality Light Pipes with Bivar Surface Mount LEDs insures maximum light transmission efficiencies and consistent brightness and color efficacy performance. Bivar SMD LEDs provide a wide selection of package sizes including 0402, single/bi-color/tri-color configurations, and narrow viewing angle options.

## Light Pipe Advanced Solutions

When it comes to Light Pipe customization, there is no one better! Bivar's Advanced Solutions Team works closely with customers from project inception to aggressively problem-solve, assess, and present design options to best achieve design success. We employ Rapid Engineering to accelerate design modeling and modifications, prototyping, testing, and production to meet accelerated timelines in today's fast paced complex design environment. Today's new technology innovations require Light Pipes to evolve in shape and function. [Contact a Design Expert today!](#)





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