
A history of technological advancement

Aerospace Optics is recognized throughout the aviation industry for offering technology-based solutions that continue to meet the changing requirements for cockpit illumination and rugged/high reliability operator interface. Here are a few examples from our history:

Sunlight readability

Pilots have continuously experienced difficulties in discerning their switches and indicators clearly in direct sunlight. Over 25 years ago Aerospace Optics engineered a sunlight-readable, pushbutton switch to provide true readings even in the most demanding, direct-sunlight situations. Our innovations greatly improved visibility and virtually eliminated this concern for pilots and their crews.

NVIS compatibility

When military strategists began to require more night-time flight operations using night vision goggles, Aerospace Optics went to work developing filtering technology to reduce the dangerous goggle interference that can occur with traditional cockpit lighting. Our research led to revolutionary lighting technology that allows pilots to safely use Night Vision Imaging Systems without fear of interference or added glare, while still maintaining sunlight readability.

Programmable displays

As the use of multifunction displays emerged, Aerospace Optics introduced an electro-optical, programmable display system: the VIVISUN 5000. The VIVISUN 5000 is a unique combination of our traditional tactile pushbutton switches and a reconfigurable display that interfaces with the host computer.

LED lighting with voltage-controlled dimming in 11 colors

The predecessor to the VIVISUN LED was the incandescent light, which required frequent bulb replacement and generated excessive heat. To combat these problems, Aerospace Optics developed the VIVISUN LED, a reliable, nearly maintenance-free LED switch that offers a 55-percent reduction in power requirements and simple voltage-controlled dimming. Today, LED technology is virtually standard in all modern aircraft.

A larger, more-readable LED

In response to customer requests for a larger LED switch, Aerospace Optics developed the VIVISUN LR3, a 1-inch by 1.2-inch rectangular LED switch. With a larger display area than the standard 3/4-inch switch, the LR3 is ideal for master caution and master warning switch applications.

Aerospace Optics, Inc.
3201 Sandy Lane
Fort Worth, TX 76112

817 451-1141 (phone)
817 654-3405 (fax)

1 888-VIVISUN

VIVISUN® 

See it. Believe it.®

Part-specification at your fingertips

In an effort to enhance its ongoing commitment to customer service, Aerospace Optics introduced the VIVISUN configurator, an online part-specification system that enables the user to specify complete part numbers and request a quote anytime day or night. The configurator guides customers through the part-number design process, allowing them to select the enclosure, actuation, legend, ground and termination type, as well as optional upgrades, such as EMI shielding or NVIS-compliant lighting.