

Aerospace Optics, Inc. manufactures the VIVISUN brand of illuminated pushbutton switches, indicators and ruggedized displays. VIVISUN products emphasize high quality and are widely used in military and aviation applications worldwide.

VIVISUN[®]



More than JUST a switch[™]

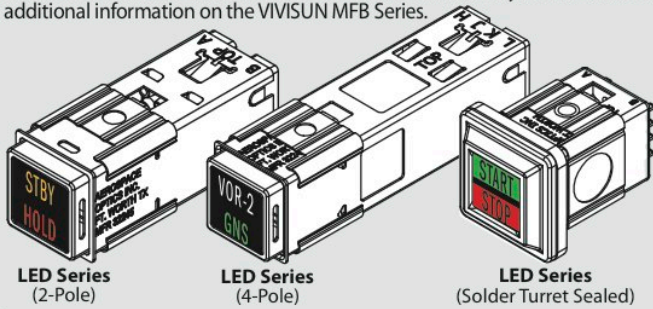
PRODUCT OVERVIEW

VIVISUN LED Series

.75" X .75" (19 mm X 19 mm)

The **VIVISUN LED** integrates advanced LED technology into an illuminated pushbutton switch and indicator. The use of LEDs allows maintenance-free operation with reliability exceeding 500,000 hours. The LED provides state-of-the-art lighting performance, with 12 sunlight readable colors and unique patented dimming control for use in any ambient lighting condition. Dimming is achieved with traditional voltage control or by simple discrete input. The VIVISUN dimming flexibility allows sunlight readability and superior low level nighttime uniformity, including compliance with MIL-STD-3009 for NVIS.

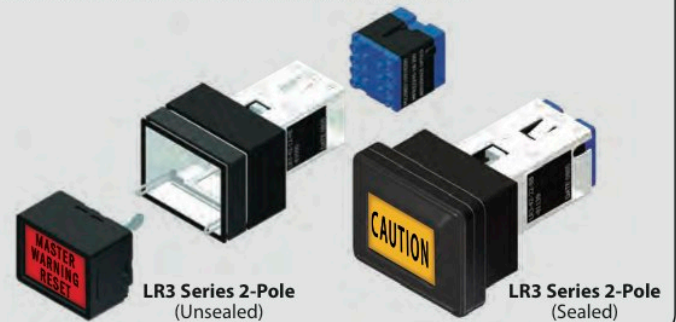
The **VIVISUN LED** is available with the solderless Quik-Connect[™] termination or the reduced length solder turret. The VIVISUN LED also allows use of the innovative VIVISUN Multi-Function Body (MFB) Series which is only available in VIVISUN products. The MFB Series expands the performance of typical pushbutton illuminated switches based on the integration of advanced electronic modules internal to the switch body. See below for additional information on the VIVISUN MFB Series.



VIVISUN LR3 Series

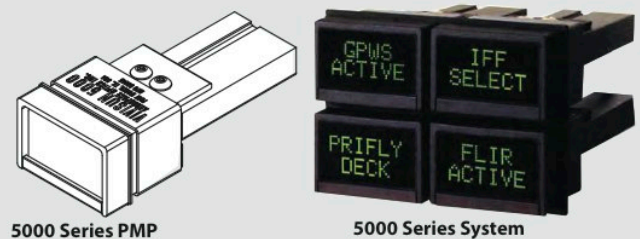
1.0" X 1.2" (25 mm X 30 mm)

The **VIVISUN LR3** provides the same advanced LED lighting performance as the VIVISUN LED but with additional display area for increased legend capacity. The LR3 provides amazing brightness, making the LR3 a popular choice for safety-critical applications such as caution and warning. The LR3 utilizes the same performance proven switch body as the standard VIVISUN LED and is also available with the MFB Series features.



VIVISUN 5000 Series

The **VIVISUN 5000** is a pushbutton programmable display system combining the multifunction capabilities of a display with the tactile response of a dedicated pushbutton switch. The 5000 Series is an off-the-shelf system which includes the RPU drive electronics, cabling and the PMP pushbutton programmable display. The system interfaces with RS-232 or RS-422 and requires 5 volt power. The 5000 display maintains the VIVISUN high-quality lighting performance with complete sunlight readability and NVIS compliance to MIL-STD-3009.



VIVISUN MFB Series

The **VIVISUN MFB** is a line of products containing custom electronic modules that occupy the same mechanical space as the traditional internal switch poles. The MFB Series may be used with the VIVISUN LED, VIVISUN LR3 and VIVISUN 95 incandescent. The options include the LOGIC Series which occupies the position of two switch poles in the High Capacity MFB or the VIVISUN Integration Pack (VIP) which occupies a single switch pole in either the High Capacity or the Compact MFB. The MFB modules perform various electrical functions, including LOGIC Series Electronic Latch, LOGIC Series Pulse/Timer, LOGIC Series Pushbutton Rotary and the VIP Series Solid State Relay.

High Capacity MFB-LED
1 standard switch,
1 LOGIC Series
and 1 VIP
module
replacing
4 standard
switches.



Compact MFB-LR3
1 VIP module
and 1 open
replacing
2 standard
switches.



VIVISUN 95 Series

The **VIVISUN 95** is a legacy incandescent pushbutton illuminated switch and indicator. The VIVISUN 95 was the initial VIVISUN product to offer the solderless Quik-Connect[™] termination which has become today's industry standard. The 95 also features excellent lighting flexibility with sunlight readability and NVIS compliance to MIL-STD-3009.



LED SERIES
MFB SERIES
LR3 SERIES
5000 SERIES
95 SERIES

VIVISUN®



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Aerospace Optics, Inc., located in Fort Worth, Texas, has been the home of high-quality VIVISUN products for over 45 years. Aerospace Optics, Inc. is absolutely committed to the highest possible product quality and places great importance on customer service and technical support. Customers may use the popular on-line VIVISUN Configurator to specify part numbers or take advantage of our technical support personnel available in the United States, United Kingdom, France, Germany and Italy. Our customers expect dependable delivery, and at Aerospace Optics orders are shipped exactly on time.

Product Quality And Certifications

- DO-160 Witnessed and Conformed
- MIL-PRF-22885 Qualified
- ISO 9001:2008 and EN/JISQ/AS9100:2009

Witnessed and conformed test data is available for Aerospace Optics, Inc. LED products. Requirements of the various regulatory agencies differ, but with DO-160 witnessed conformance, VIVISUN products are readily accepted worldwide.

In addition to DO-160 Conformance, VIVISUN products are MIL-SPEC qualified to MIL-PRF-22885. The initial Aerospace Optics, Inc. certification was received in 1978 as MIL-S-22885/90 and subsequent qualifications include:

- MIL-PRF-22885/108, 95 Series Incandescent
- MIL-PRF-22885/108, VIVISUN LED
- MIL-PRF-22885/113, VIVISUN LR3

The Aerospace Optics, Inc. Quality Management System is certified to AS9100:2009.

Innovation And Performance

By emphasizing product performance and continuous improvement, innovation is at the forefront of Aerospace Optics' operating strategy. A specific focus on improving safety and operator interface has driven the development of outstanding sunlight readability and NVIS-compliant lighting, as well as unique electrical and packaging features. Using the advantages of LED lighting, VIVISUN achieves maintenance-free operation and complete dimming flexibility. The VIVISUN Multi-Function Body (MFB) Series redefines the typical application of lighted pushbutton switches and simplifies design by adding advanced electrical function internal to the switch. Our commitment to innovation continues as additional features and products are always being added to the Aerospace Optics, Inc. line of products.

Service

With every VIVISUN product you receive world-class customer service, from a knowledgeable and friendly voice to answer your call to an automated shipping notice when your parts ship. Part number specification and quotations can be completed on-line via the VIVISUN Configurator and customers have immediate access to new part numbers from anywhere in the world and any time zone. The complete ordering process is paperless, and our customers know exactly when their order is scheduled to deliver.

Every step in the ordering process is made easy and demonstrated performance is the only promise we make.

LED Series
(Unsealed)

.75" X .75"
(19 mm X 19 mm)



LR3 Series
(Sealed)

1.0" X 1.2"
(25 mm X 30 mm)

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