

FLIGHT DECK ELECTRONICS

Air Transport, Business Aviation, Military, Space



Your Dependable Source for Flight Deck Electronics

Aircraft manufacturers and systems suppliers have been turning to Spectralux for lighted panel solutions for over 40 years. We design, build, and test our products with an emphasis on total system performance. This means right-the-first-time products that consistently meet your expectations.

Spectralux lightplates and keyboards integrate the most commonly accepted light sources: light-emitting diode (LED) and incandescent. Spectralux technology is also available in glareshield-mounted floodlights that provide low-power, low-profile lighting solutions for the flight deck.

We also provide lightplates and keyboards meeting requirements of MIL-L-85762 and MIL-STD-3009 for NVG-compatible lighting. And sunlight-readable annunciators can be incorporated into any design.

Flight Deck Electronics

- Illuminated Keyboards
- Lightplates (Lighted Panels)
- Glareshields and Floodlights
- Radio Control and Tuning Panels
- Leading Edge Flap/Slat Panels
- NVIS / NVG compliant systems

OTD and Quality > 99%

With on-time-delivery and quality performance second to none, contact Spectralux for truly affordable solutions.

Spectralux
avionics

AFFORDABLE. DEPENDABLE. RESPONSIVE.

ISO 90001 / AS9100

For more details, contact Spectralux at 1 (425) 285-3000

spectralux.com

Keyboard Specifications

Bezel Material

Aluminum, acrylic or molded thermoplastic

Keycap/Button Material

Aluminum, acrylic or molded thermoplastic

Switch Function

Single pole, single throw, momentary, normally open

Switch Feel

Snap-action, positive tactile response

Actuation Force

9, 14, 18 and 28 ounce nominal forces are standard

Life

Tested to 1,000,000 cycles

Contact Bounce

5 milliseconds maximum

Contact Rating

100 milliamps at 28 VDC (resistive)

Circuit Board

Designed per IPC-D-275

Insulation Resistance

500 VRMS

Light Sources

Incandescent or light-emitting diodes (LED)

NVG Compatibility

Can be designed to meet the requirements of MIL-L-85762 & MIL-STD-3009

Operating Temperature

-40° C. to +71° C., typical

EMI

Per MIL-STD-202 or RTCA DO-160

Environmental

Per MIL-STD-202 or RTCA DO-160

Workmanship

Per IPC-A-610, Class 2 or better

Lightplate Specifications

Panel Material

Injection molded thermoplastic or machined sheet acrylic per MIL-P-5425 & MIL-PRF-5425

Finish Color

Conforms to FED-STD-595.
Custom colors available

Panel Marking

Per SAE-AS18012, MIL-DTL-7788, or MIL-STD-130

Circuit Board Material

Metal-clad, laminated and reinforced sheet per IPC-4101

Electrical Connector

MS90335 or commercial equivalent

Light Sources

Incandescent or light-emitting diodes (LED)

NVG Compatibility

Can be designed to meet the requirements of MIL-L-85762 & MIL-STD-3009

Stray Light

Not visible at $\pm 90^\circ$ to normal

Insulation Resistance

500 VRMS

Environmental

Per SAE-AS7788, MIL-DTL-7788 or RTCA DO-160

Workmanship

Per IPC-A-610, Class 2 or better

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