# **FLIGHT DECK ELECTRONICS** Air Transport | Business Aviation | Military | Space



## Your Dependable Source for Flight Deck Electronics

Aircraft manufacturers and systems integrators turn to Radiant Power Corp. (RPC) for high-quality lighted panels, light plates, keyboards, and bezel assemblies for use in aircraft cockpit systems. We design, test, and manufacture our products with an emphasis on total system performance that is critical in the aviation industry.

RPC light plates and keyboards integrate the most commonly accepted light sources, including Light-Emitting Diodes (LED) and incandescent lighting. That technology is also available in glareshield-mounted floodlights that provide low-power, low-profile lighting solutions for the flight deck.

We also manufacture light plates and keyboards meeting MIL-L-85762 and MIL-STD-3009 requirements for NVG compatible lighting, as well as MIL-DTL 7788 compliant. In addition, sunlight-readable annunciators can be incorporated into any design.

Located in our new state-of-the art manufacturing center in Sarasota, Florida, RPC has the technology, design expertise, and manufacturing capabilities to meet the lighting requirements and quality expectations of the aviation industry.

### **KEY FEATURES**

- > Illuminated Keyboards
- > Light Plates (Lighted Panels)
- > Glareshields and Floodlights
- > Radio Control and Tuning Panels
- > Leading Edge Flap/Slat Panels
- > NVIS / NVG Compliant Systems
- > MIL-L-85762 and MIL-STD- 3009 NVIS Lighting
- > MIL-DTL-7788 Compliant



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#### **KEYBOARD SPECIFICATIONS**

Features	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
ЕМІ	Per MIL-STD-202 or RTCA D0-160
Environmental	Per MIL-STD-202 or RTCA D0-160
Workmanship	Per IPC-A-610, Class 2 or better

#### LIGHT PLATE SPECIFICATIONS

Features	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° 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

For more details, contact Radiant Power at 1.941.739.3200

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