



Illuminated Lightplates Flight Deck Panels



Custom Illuminated Cockpit Panel Solutions

With more than 45 years of experience, IDD is a world leader in the design and manufacturing of illuminated lightplates for both commercial and military aircraft. IDD specializes in new airframe implementation of LED lightplates.

IDD is an OEM supplier and produces more than 40,000 illuminated panels per year. This experience allows us to offer cost-effective solutions that are customized to our customers' needs.

IDD Aerospace is a manufacturer of illuminated products for commercial and military flight decks. We are based in Redmond, Washington, USA, and our primary products include lightplates, control panel assemblies and integrated switching panels.





General Specifications

IDD's lightplates are designed to meet SAE-AS-7788/MIL-P-7788 specifications.

Lighting

IDD primarily builds both Incandescent (Type V) and LED (Type VII) technologies for panel lighting. Our lighting uniformity, laser indicia, and computerized balancing ensures manufacturing consistency and part quality. We also have solutions for NVIS and NVG compliance.

- Type V (Incandescent) 2.7V, 4.5V, 5.0V, 12.0V, 27.5V, and 28V
- Type VII (LED) 4.5V, 5.0V, 12.0V, 27.5V, 28.0V, and 115.0V
- Type VI (EL) - Type VI to Type VII (LED) retrofitting

Brightness

- 0 to 30 footlamberts or annunciated legends as high as 450 footlamberts

Chromaticity

Type VII - Can achieve chromaticity CIE X and Y color tolerances of +/- 0.03.

Most colors that follow the Planckian Locus can be achieved through the use of filtration.

Type V - Can achieve chromaticity CIE X and Y color tolerances of +/- 0.02.

Most colors that follow the Planckian Locus and are greater than .400 on the 1931 CIE chart can be achieved through the use of filtration. Stray light not visible at $\pm 90^\circ$.

Illumination

Equal Energy White, IPL Red, IPL White, USAF BW, NVIS Green A, Green B. Illumination solutions available for custom requirements. LED designs to match incandescent lighting curve.

NVG and NVIS (Night Vision Imaging System)

IDD's state-of-the-art engineering and manufacturing processes ensure superior NVIS-compatible lighting performance. NVIS Green panel class A or B illumination can meet or exceed NVIS A or B performance requirements of MIL-L-85762A or MIL-STD-3009. This is achieved through the use of LEDs or incandescent illumination technologies.



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