

Illuminated Panel & Keyboard Systems



- Lighted Panel and Switch Legends
 - Compliance with MIL-DTL-7788 and NVIS (Night Vision Imaging System) MIL-STD 3009
 - Lighting options - LED, Incandescent, and Electroluminescent
- Panel Envelope
 - Designed for DZUS rail compatibility and MS25212 compliance
 - Thin profile and light weight design
- Integral Momentary Push Button Switches
 - Lighted, sealed, low profile, positive tactile feel
- Split Legend Lighting
 - A combination of backlit legends, annunciated legends, and indicators can be incorporated into a single push button switch
- Panel and Switch Annunciator Options
 - Legend / Character
 - Indicators
 - Dead front, when in high ambient light conditions
 - NVIS compatible and compliant
 - Lighting methods – LED and incandescent



Illuminated Panel & Keyboard Systems

- Custom or standard, multi-feature potentiometers, rotary switches, encoders, toggle switches, pull switches, and push-to-talk switches
 - Features – stops, detents, absolute / relative encoders, continuous turn, momentary push switch, illuminated knobs
- Display Integration – LCD & LED
- On-board Electronics
 - PWM (Pulse Width Modulation) for LED dimming control
 - PLD (Programmable Logic Device) and A to D conversion for matching LED dimming to incandescent dimming
 - Communications Protocol – including ARNIC 429, RS-232, RS-422 and / or customer defined
- Designed to meet Environmental and EMI requirements; including MIL-STD-810, MIL-STD-461, RTCA/DO-160
- Testing Capabilities
 - Photometric – Luminance, contrast, chromaticity, uniformity
 - NVIS – On-site spectroradiometer for full NVIS compliant testing
 - Dead front, when in high ambient light conditions
 - First Article and Qualification testing – Bowmar has the ability to create test procedures, perform the tests, and submit comprehensive test reports