



**baja designs**  
THE SCIENTISTS OF LIGHTING

# CAPABILITY STATEMENT

**Baja Designs**

<https://www.bajadesigns.com>

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**Contact:**

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**CAGE CODE: 530TO**

**NAICS CODE: 336320, 335139**

**UEI: MCDZFJD6Z5R1**



**Certifications:**

- MIL-STD810G Durability Compliance
- IK10 Compliant Impact Resistance
- IP69K Compliance water resistance



In 1992, Baja Designs was founded in San Diego, California, with a passion and thirst for off-road. Performance-driven, race-proven, and battle-tested, Baja Designs engineers and manufacturers use only the best components available on the market today. Since the beginning, we have engineered revolutionary ways to stay at the forefront of motorcycle and automotive lighting. Our commitment to innovation makes us the “Scientist of Lighting”, always ready to meet the evolving needs of our customers.

Baja Designs has a proven history of developing the most capable lighting solutions for tactical vehicles. During the early stages of America’s War on Terror, US Special Forces Tier One operators approached Baja Designs with a need for better lighting options on their current generation of off-road vehicles. Baja Designs, already established as the “must-have” light for the off-road racing community, was uniquely qualified to supply America’s warfighters with greatly improved vehicle lighting options. This unique qualification, coupled with our experience and expertise, led to the birth of the Fuego IR [TK1] and LED IR Squadron Pro. Since then, we have worked closely with Special Operations, the Army, the Navy, prime contractors, and other government agencies to develop enhanced LED IR lighting solutions

## CORE COMPETENCIES

Baja Designs is a manufacturer of auxillary lighting solutions for various types of vehicles and equipment. We have over 30 years of experience in providing the highest quality LED lights on the market today.

- Tier 1 production facility
- Dedicated Engineering staff

## KEY DIFFERENTIATORS

- uService - Replaceable Lenses and Optics
- MoistureBlock - Waterproof, Rain Proof, Submersible
- 5000K Daylight - Less Driver Fatigue, Natural Color
- Clearview - All the Light, Right Where You Need it
- CopperDrive - Safely Driving LEDs at 100%
- Lifetime Manufacturer Warranty
- 30-Day Satisfaction Guaranteed

## PAST PERFORMANCE

- GM Defense
- Pratt Miller
- Polaris GOV
- L3 Harris
- California Border Patrol
- MSI Defense
- QinetiQ
- Triad
- Department of Defense
- US Army
- US Navy
- US Air Force
- US Marine Corp
- Battelle Advanced Mfg
- Navistar

## NSN NUMBERS

NSN#	Description	Baja P/N	Baja Description
5930-01-690-0210	Switch, Toggle	129006	Switch, Handlebar on/off only
5855-01-688-0631	Light, IR transmitter	49-7133	Squadron Pro, 940nm IR LED, Thales
6220-01-692-6267	Headlight	447026	Polaris, Dagor Headlight Kit
5935-01-679-3722	Connector Set, Electrical	487083	Wiring Loom, Mil Spec, Merce
6150-01-690-0216	Wiring Harness	611049	Wiring Harness & Switch, Off Road Bikes (Universal)
6220-01-675-2102	Headlight	487073	S2 Pro, 850nm IR LED Driving
6220-01-589-6217	Headlight	49-7093	Squadron Pro, 940nm IR LED Driving/Combo

**EXCEEDS RIGOROUS TESTING**

Test Name	Test Method	Description
Low Temperature (Operation)	MIL-STD-810G, method 501.5, procedure II	Low Temperature: 4hr exposure at -30° C (-22° F). Unit was operating during test.
High Temperature (Operation)	MIL-STD-810G, method 501.1, procedure II	High Temperature: exposure (24h x 3 cycles at 72° C (161.6° F) max. Unit was operating during test.
Low Temperature (Storage)	MIL-STD-810G, method 502.5, procedure I	Low Temperature: 24hr exposure at -52° C (-61.6° F). Unit was not operating during test.
High Temperature (Storage)	MIL-STD-810G, method 501.5, procedure I	High Temperature: exposure (24h x 7 cycles) at 72° C (161.6° F) max. Unit was not operating during test.
Temperature & Humidity (Operation)	MIL-STD-810G, method 507.5, procedure II	0% to 95% - Non-condensing humidity. Temperature cycled between 30° C (86° F) & 60° C (140° F), Ten 24hr cycles. Relative humidity maintained at 95%. Unit was not operating during test.
Thermal Shock Cycling	MIL-STD-810G, method 502.5, procedure I	-52° C (-61.6° F) to 94° C (201.2° F) Cyclic temperature exposure, 3 cycles. Unit was not operating during test.
Dust	MIL-STD-810G, method 510.5, procedure I	Air velocity – 8.9m/sec. Test duration: 12h Unit was not operating during test.
Random Vibration (Operation)	MIL-STD-810G, method 514.6, procedure 1 Category 4 & 24	1. Frequency Range: 20Hz – 200Hz, Vibration Level: 7.7 Grms. 60 mins x 3 axes. Unit was not operating during test. 2. Frequency Range: 10Hz – 500 Hz, Vibration Level: 1.04 Grms (vertical-axis), 0.74 Grms (longitudinal – axis), 0.20 Grms (transverse-axis) 60 mins x 3 axes. Unit was not operating during test.

**FACILITIES**



**US FACILITY | San Marcos, CA**

- 37,000 sq.ft facility.
- 90 employees
- Engineering, Marketing, Dealer and Retail Sales, Purchasing, Warehouse and Shipping.



**MEXICO FACILITY | Toluca, Mex**

- 114,850 sq.ft factory.
- Tier 1 manufacturing facility
- Main production facility of Baja Designs products
- 42 assembly stations
- 5 laser etching stations
- 671 pallet positions

