

## Baja Designs Technology

### **MoistureBlock™ for Baja Designs by DSM&T**

O-ring seals and proprietary cord technology make BD lights completely waterproof, rain proof, dustproof, submersible and washable. O-ring seals are considerably more effective at blocking water than the beads of silicone. In addition, the patented MoistureBlock™ on BD's cords is an innovative new technology that completely stops water from wicking its way up the cord and into the light. Even if you cut the connector off, your light is still waterproof and you will not void your warranty. IP69K and MIL-STD-810G compliant. Note: If you cut past the moisture block, it will lose its IP69K Rating.

### **ClearView®**

With more useable patterns than any other manufacturer, ClearView® provides you with a light for every zone and a scientific method to the madness. ClearView™ is our proprietary optics, which are computer designed in-house by Baja Designs' team of racing engineers who have first-hand knowledge of the lighting needs of all types of drivers and riders. Each new optic is meticulously prototyped in-house, and personally tested and perfected by Alan Roach, Baja Designs Engineer, Founder and Racer.

Each optic is designed to illuminate one or more of seven specific Lighting Zones. BD's racing engineers were the first to define these lighting zones and to design specific patterns for the lesser-known cornering, dust/fog and High-Speed Spot zones. BD's Wide Cornering and Wide Driving patterns were the first HID and LED lights that offered both a horizontal cut off and a wide pattern to make the light usable in fog or dust without causing blinding back scatter and also fill the important cornering zone so the driver doesn't feel like he is driving in a tunnel. BD's High-Speed Spot™ has revolutionized LED lighting by truly achieving the distance of an HID with the smoothness of an LED.

### **5000K Daylight**

Human eyes have evolved to see best at noon on a sunny day which translates to a color temperature of 5000° Kelvin. A color temperature of 5000K greatly reduces driver fatigue and increases terrain recognition. BD exclusively uses 5000K LEDs to ensure the safest and highest performing driving experience.

### **CopperDrive®**

BD's CopperDrive LED management system uses next gen circuit board and driver technology to safely run high powered LEDs at 100% power. 4 levels of thermal management transfer LED heat up to 3000% more efficiently and provide an extra layer of vibration isolation creating the highest performing and longest lasting LED light on the market. Our circuit boards use copper instead of aluminum to help transfer heat more efficiently from the LED to the thermal gap pad. The thermal gap pad plays an important role in aiding heat transfer to the heat sink, which keeps the LEDs cool and also provides for vibration damping. The microprocessor-controlled

thermistors help to constantly monitor the temperature of the LED to ensure brightness and longevity.

