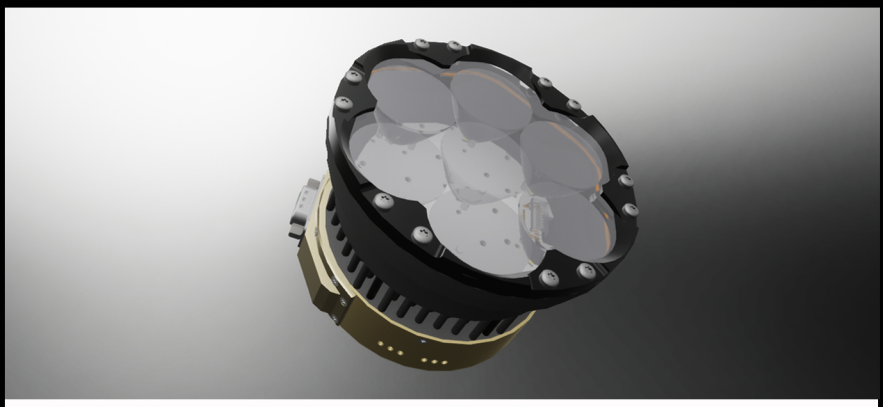
XeVISION

LED & HID AIRCRAFT LIGHTING TECHNOLOGIES



Unleashed Power of High-Intensity LED Lights

XeVision® XeTREME™ LED fixtures are a true game-changer in aviation external LED lighting

Complementary to XeVision®'s state-of-the-art HID Xenon lighting systems for Aerospace and Industry, LED technology has definitively evolved to become an exciting and powerful light source for aircraft external lights. Now, the company is rolling out a new line of LED landing and taxi lights engineered with cutting-edge technologies, the XeTREME™ LED aircraft light series. By out-of-the-box thinking, XeVision® achieved an efficient and dependable extreme brightness for the LED light engine, with certified brightness data greatly exceeding anything currently on the world market, in fact by more than a factor of two for PAR 36 size lights. The XeTREME™ series is a true game-changer in aviation high-intensity LED landing and taxi light performance.

High-power LEDs inherently generate a lot of heat while in operation. The excess heat needs to be dissipated quickly, otherwise, the system may suffer a possible thermal run-away which dramatically lowers the LED output, and lowers the LED lifespan. To alleviate this problem, XeVision® opted for an innovative Active Cooling approach. The proprietary active cooling design guarantees sustained highest light output and long component life by a meticulously designed cooling concept. For a high-efficiency design, XeVision® selected state-of-the-art high-intensity LED chips and TIR optics together with a protective high transmission hardened AR (anti-reflective) glass. With several years of development and extensive testing XeVision® established that the light fixtures were producing more than 96% of brightness even after days of continuous light fixture operation.

The XV36-LED-7UN landing light is an extreme power-house in regards to luminous intensity and a benchmark for a lamp with a par 36 form factor generating > 320'000 cd (Candela, Candle Power) of light at 100 W power input, more than double of what our competitors currently offer. The landing light easily reaches 800 m (1/2 mile) of range at a 9º beam angle. The light power provides a great enhancement for "See and be seen" during all phases of flight.

Taxiing with the XV36-LED-7EL taxi light shows the benefit of the wide uniform light pattern of 34º allowing illumination on both sides of the aircraft taxiing path. The rectangular beam shape with a 11º vertical beam angle and the wide horizontal beam pattern makes this light very effective, unlike circular taxi light beams.

The benefit of the combination of the XV36-LED-7UN landing light and the XV36-LED-7EL taxi light is enormous with a far reach of central illumination (7UN) and a superb uniform illumination to the sides (7EL) providing optimal benefits for ground and flight operation safety. Too bright? Just choose 50% light intensity, selectable in the cockpit on the fly.

The proprietary strobe mode, dubbed XeStrobe™, is purposely designed by XeVision® engineers for better recognition. XeStrobe™ is far superior to the traditional wig-wag pattern. The XeStrobe™ pattern is a perfect solution to mitigate bird strikes. By using the XeStrobe™ mode, “To be seen” is a no-brainer even for flocks of birds. Js/ra Aug 21