



TrakkaBeam® TLX

HIGHER INTENSITY

Building on Trakka's reputation for industry leading optics the TLX produces an incredible 25% greater intensity and volume of light across the beam, greatly enhancing your night-time operational requirements. Like in all Trakka searchlight products, the bespoke optics provide an efficient and even beam, from the centre all the way to the edges, resulting in the industry's brightest and most uniform beam.

REAL TIME FILTER SELECTION

The TLX also includes Trakka Systems unique, embedded multi-filter solution. Up to six different filters can be selected in less than 1 second at the touch of a button from inside the cockpit or cabin. Filter combinations can be configured to your requirements and include extremely covert IR, visible red, green or amber allowing the observer to have enhanced night-vision, reduce the glare from fog, snow, moisture or vegetation and increases natural colour in the target field. The TLX's new range of filters also increases transmission of energy in all wavelengths up to an amazing 98%.

ENHANCED POWER AND OPERATIONAL EFFICIENCY

With the latest design enhancements, the TLX not only delivers 25% more light, but at the same time draws 11% less power to run the lamp due to an enhanced power management system. In addition, the weight of the Power Control Unit has been reduced by 24%. An improved heat management system ensures the TLX runs cooler, even in extremely hot environments.

MISSION INTEGRATION WITH UNPARALLELED ACCURACY

Trakka Systems has taken searchlight technology to the next level with embedded absolute encoders. This breakthrough has made way for platform Geo Axis Lock, reverse slaving from the searchlight controls, and a host of other features designed with the mission specialist and flight line personnel in mind.



It provides an increased operational envelope, instant position recognition and faster more responsive movement of the searchlight. It also eliminates the initialization sequence required on an initial start-up, making life easier for the operator and enhancing system safety.

DO-160G TESTED AND QUALIFIED FOR PERFORMANCE AND RELIABILITY

The TLX has been designed rigorous tested to DO-160G standards by internationally recognized laboratories in adherence with OEM requirements. This series of critical tests includes lightning strike, vibration, AF and RF susceptibility, magnetic effect, and many more. This level of testing ensures trouble-free and reliable searchlight performance for your missions. The TLX offers the highest MTBF (mean time between failures) in the industry, enhanced maintenance access and our standard comprehensive warranty.

SYSTEM INTEROPERABILITY

The TLX is compatible in form, fit and function to most A800 models and is thus backwards compatible with aircraft wiring and Trakka controllers, allowing for an easy upgrade path where required.



Optional Dual Sensor IR/CCD Camera Payload

This unique option supplements the functionality of the TLX searchlight, by providing enhanced multispectral situational awareness and has been designed for simple aircraft installation and operator usage.

An integrated high resolution colour CCD camera with excellent sensitivity allows remote viewing and recording of scenes, whether by day or by night (illuminated with the searchlight)

An integrated high resolution uncooled LWIR thermal imager provides remote 360° viewing of scenes in the thermal band, whether by day or night, in conjunction with illumination or without.

The cameras feature matched FOV's of 12.4°, compatible with the TLX searchlight FOV range and providing human detection ranges >1.5 km.

PERFORMANCE SPECIFICATIONS

Watts	800
Lumens total	22,500
Beam Width (focus)	5.4°-14.3°
Diameter @ 3300f	311 ft (95m), 40% of peak illuminance
Recycle Time	Not Required
Gimbal Control	2 Axis remote
Rotation	Azimuth: +190°/-190° (non-continuous) Elevation: +40°/-170°
Slew Rate Variable	Azimuth: 0-60° per second Elevation: 0-60° per second
Serial Communication	RS232 and RS422
Camera Slaving	Forward and reverse slaving

MECHANICAL SPECIFICATIONS

SEARCHLIGHT ASSEMBLY

Envelope Size (min)	Height: 18.98" (482mm) Width: 17.52" (445mm)
Envelope Size (max)	Height: 23.39" (594mm) Width: 17.52" (445mm)
Weight (searchlight/gimbal)	40.12lbs (18.2kg)
Total System Weight	49.74lbs (22.61kg) Including S/L, PCIU, Filters & Grip

POWER SUPPLY (WIRING JUNCTION)

Size	5.83(H) x 5.51(W) x 13.39(L)" 148(H) x 140(W) x 340(L) mm
Weight	9.46lbs (4.3kg)

ELECTRICAL SPECIFICATIONS

Input Range	22 - 32 VDC
Input Current	35 - 40 amps
Starting Time	1 second

OPTIONS

- NVG compliant pilot/co-pilot control panel
- Amber, Near Red, Blue, Green 825nm, 875nm & 950nm IR filters
- Integrated slaving for TRAKKA, FLIR, WESCAM, SWE, LEO & CINEFLEX cameras
- NVG compliant backlit grip control
- Dual grip control with priority switching
- Laser pointer
- Customised installation cable kits
- Dual sensor IT / CCA camera payload



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