



## TrakkaBeam® TLXc

### HIGHER INTENSITY

Building on Trakka's reputation for industry leading optics the TLXc produces an incredible 25% greater intensity and volume of light across the beam than the previous A800 model, 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 TLXc 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 TLXc's new range of filters also increases transmission of energy in all wavelengths up to an amazing 98%.

### INTEGRATED SITUATIONAL AWARENESS CAMERAS

Trakka Systems has introduced the industries first stabilised multi-spectral searchlight light system with wide field of view Long Wave IR and EO (Day TV) cameras to enhance the crews operational safety and effectiveness without the adding the expense of costly highly stabilised camera systems. This capability allows for safe 24/7 operation during any mission.

### MISSION INTEGRATION WITH UNPARALLELED ACCURACY

Trakka Systems has taken searchlight technology to the next level offering an inertially stabilised searchlight platform, greatly enhancing the "ease of use" for the operator.



This new feature 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 startup, increasing operational effectiveness and enhancing system safety.

### DO-160G TESTED AND QUALIFIED FOR PERFORMANCE AND RELIABILITY

The TLXc 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 TLXc offers the highest MTBF (mean time between failures) in the industry, enhanced maintenance access and our standard comprehensive warranty.

### SYSTEM INTEROPERABILITY

The TLX series is compatible to most A800 models and is thus backwards compatible with aircraft wiring, mounts and system controllers, allowing for an easy upgrade path where required. TLXc only requires a simple addition of a coax video cable.



## TrakkaBeam® TLXc

- Multi-mission capable
- Reduced weight and lower power consumption
- Aerodynamic design resulting in a low parasitic drag
- DO-160F certified & DO-178 compliant
- Highest level of actual MTBF
- Ease of removal and installation
- Smart electronics
- NVG compliant
- 4hgb` TgV`8B` ?Z[ g@bVX

### PERFORMANCE SPECIFICATIONS

Watts	800
Lumens total	22,500
Peak Luminance	24 lux @ 1km
Beam Width (focus)	5.4°-14.3°
Diameter @ 3300f	311ft (95m), 40% of peak illuminance
IR/EO Cameras	32° Fixed FOV's
Video Format	NTSC/PAL & H.264
Recycle Time	Not Required
Gimbal	2 Axis Stabilised
Rotation	Azimuth: +190°/-190° (non-continuous) Elevation: +35°/-175°
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)	46.3lbs (21kg)
<b>Total System Weight</b>	<b>56.3lbs (25.5 kg) Including S/L, PCIU, Filters &amp; Grip</b>

#### POWER SUPPLY (WIRING JUNCTION)

### 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, Gr
- Integrated slaving for TRAKKA, FLIR, WESCAM, SWE, LEO & CINEFLEX cameras
- NVG compliant backlit grip control
- Dual grip control with priority switching
- Laser pointer (option)
- Customised installation cable kits



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