LUMINEQ®
POWERED BY Beneq
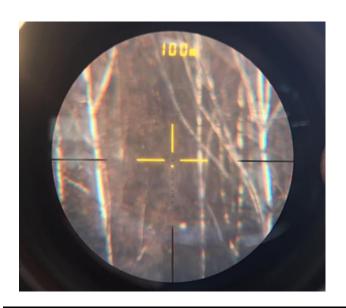
ELT32S-RETICLE-BAT

Transparent Display Demonstrator

The ELT32S-RETICLE-BAT is a transparent reticle display demonstrator that comes with a segment design intended for telescopic sight applications.

Due to the unique optical and performance characteristics, Lumineq® transparent displays are ideal for line-of-sight applications where transparency and ruggedness are of paramount importance.

Lumineq displays, enabled by Atomic Layer Deposition, are the world's most transparent and most reliable displays.

Lumineq Transparent Reticle Display

Product capabilities:

The ELT32S-RETICLE-BAT is designed to demonstrate and to help you to evaluate the unique capabilities of transparent Lumineq displays. The demonstrator helps you in concept design and prototyping, and to adapt the technology to your application.

Product features:

- Turnkey demonstrator consisting of transparent reticle display with flex and driving electronics with casing.
- 32 individually addressable segments – range by numeric values, crosshair (10 or 20μm) and drop dots.
- Traditional chrome reticle as an option
- Scripted demo modes or I2C interface
- Mode and brightness control with rotary encoder
- Fully transparent, round-shaped reticle display glass is integration-ready with optical devices
- Fully customizable: Glass size, shape, coating, segment design and contacting. Driving electronics, interface and flex design.

Technical specifications:

Technology	Transparent Thin Film Electroluminescence. Solid state, inorganic, emissive
Color	TFEL-yellow
Type	Segmented, 32 predefined icons
Transparency	~85% (where transparent). ~90% when with AR (on special request)
Viewing angle	360°, fully transparent
Response time	< 1 ms
Luminance	Adjustable – from daylight to NVIS. 12 predefined brightness settings from 5 to 3400cd/m2 (~5000cd/m2 when with chrome)
Glass diameter	20.5 mm (plus contact area)
Glass thickness	2.2mm (total - encapsulated with cover glass)
Flex (FPC)	Straight, length 250mm
PCB size	75x34x44mm (not optimized for size)
Power	Typical few milliwatts – depends on the brightness
Input Voltage	3V/CR123A battery
Interface	Rotary encoder (mode and brightness) or I2C
Warranty	3 months (Demonstrator/development kit)

Ordering Information:

Product	Part number	Features
ELT32S-RETICLE-BAT-10CH-CR	EL00109700	Reticle display with 10μm crosshair and traditional chrome reticle
ELT32S-RETICLE-BAT-10CH	EL00109800	Reticle display with 10μm crosshair
ELT32S-RETICLE-BAT-20CH-CR	EL00109900	Reticle display with 20μm crosshair and traditional chrome reticle
ELT32S-RETICLE-BAT-20CH	EL00110000	Reticle display with 20μm crosshair