VUZIX

TAC-EYE® LT

See more of every mission.

- Lightweight, low profile, and high resolution
- Excellent light discipline
- ML-STD 810F: Shock, Vibration, Water, Dust, Drop, Temp
- Displays SVGA, NTSC, RS-170, and PAL
- Uses include: Tactical Mapping & Fire Support, Unmanned Vehicle Operation, Remote Weapons Sight, and HAHO Navigation

Designed with the lightfighter in mind, the sunglass/goggle-mounted Tac-Eye LT system provides hands-free access to SA data and is the ultimate in remote viewing technology for tactical video applications.

The Tac-Eye LT is stable and flexible enough to allow the user to maneuver and fire their weapon even while using the display—a feature that's been proven on battlefields worldwide.

Its high-contrast SVGA display is perfect for displaying images from a thermal weapon sight, Ultra Mobile PC, unmanned systems, or nearly any video system. And a simple control panel allows the operator to optimize the display to their conditions, with little to no training required.

The Tac-Eye LT Advantage

The Vuzix Tac-Eye LT delivers a number of important benefits competing systems do not:

- Optics module does not impact ballistic integrity of protective eyewear
- Extremely stable goggle or sunglasses mount option is comfortable for extended durations
- User can remove the system without removing their helmet
- Lowest power electronics (six hours with two AA batteries)
- Adjustable optics module gives user ability to move the display module housing out of the field of vision or to a position most comfortable for the individual
- 60% increase in battery life of a typical computer using the Tac-Eye LT
- Custom cable assemblies and interfaces are available
- Proven HMD production and delivery capability

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Tac-Eye LT Specifications

Display Eyepiece	
Type	AMOLED (Organic Light Emitting Diode)
Resolution	800 x 600 pixels
Contrast Ratio	>200:1 (color); >800:1 (white or green)
Gray Levels	Up to 256 per primary color
Brightness	<0.1 ftL. to >23 ftL.
Luminance Uniformity	Large area luminance non-uniformity >85% as measured by the human eye Maximum luminance non-uniformity is 16%
Luminance Range	9 FL to 18 FL
Head-Borne Weight	51 grams/1.81 ounces
Field of View	29.5 degrees
Apparent Image Size	21" (as if at 3 feet)
Distortion	Maximum distortion <3% (empirically); 0.4% (Zemax modeling)
Light Security	Undetectable @ 3 meters in darkened room (with light shield in place)
Diopter Adjustment	None; however, protective eyewear is compatible with use of prescription inserts
Physical Eye Relief	15 mm
Exit Pupil Size & Shape	5 mm x 7 mm @ 15 mm eye relief
System	
Display Inputs	SVGA, NTSC, RS-170, PAL
Power Supply/Usage	6 hours using 2 AA batteries
Readiness	Usable image within 3 seconds
Audio Security	<35 dBA @ 5 meters
Operating Temperatures	-40° C to +49° C
Storage Temperatures	-46° C to +71° C (at least 6 hours)

Inline Control Panel
Controls Power, Display Brightness, and Display Orientation

Wearable Mouse
- Standard USB 2.0 mouse
- ML-STD 810F: Shock, Vibration, Water, Dust, Drop, Temp

Battery Box
- ML-STD 810F: Shock, Vibration, Water, Dust, Drop, Temp
- Converts power from 2 AA batteries into a 5V female USB connector

Mounting Options
- Ships mounted to Oakley SI Ballistic M Frame 2.0 Strike Array (Black Frame/ NSN# 4240-01-525-3095)
- Works with nearly all glasses or goggles on the AUTHORIZED PROTECTIVE EYEWEAR LIST (APEL) FEBRUARY 2006
- Other mounts, including helmet and ear protection system options, are in development

Vuzix Corporation
vuzix.com/tactical
800-436-7838

A new vision
of the digital battlefield