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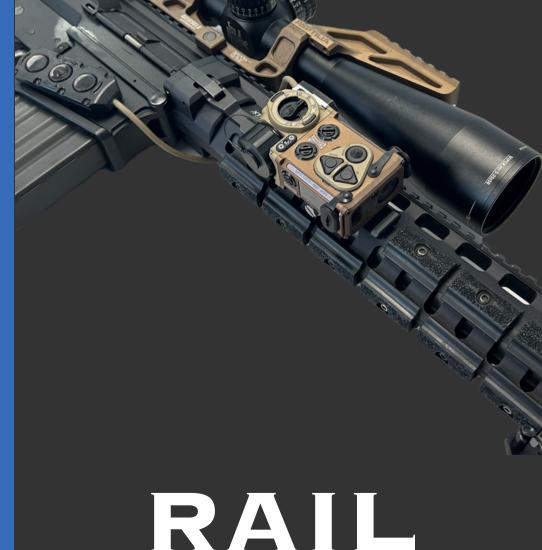in https://www.LinkedIn.com/company/envision-technology-llc/

Envision Technology, LLC

RAIL

RAIL

Rail Mounted Aiming/Illumination Laser

OVERVIEW

The Rail Mounted Aiming/Illumination Laser (RAIL) brings a weapon-mounted aiming and illumination capability to the user in an exceptionally small form factor. The RAIL contains an integrated visible aiming laser (Green or Red), NIR aiming laser, NIR illumination laser, and NIR wide-angle LED illuminator for confined spaces or Close Quarters Battle (CQB). The NIR illumination laser has a quick adjust beam divergence capability and is independently adjustable from the co-aligned aiming lasers. All lasers have user adjustable power settings to support various mission needs. The system is powered by a single CR123 battery and mountable to a standard MIL-STD-1913 rail.

RAIL Features

Dimensions	< 3.7" x 2.3" x 1.3" (Above Rail)	Power	Single CR123 Battery
Weight	< 6 oz.	Mounting Interface	MIL-STD-1913 Rail Grabber

Visible Pointer	Output Power	3mW Low Power (Class 3R), 38mW High Power (Class 3B)
	Divergence	0.3mrad
	Wavelength	520nm (Green) OR 640nm (Red)

NIR Pointer	Output Power	0.3mW Low Power (Class 1) 25mW High Power (Class 3B)
	Divergence	0.3mrad
	Wavelength	850nm

NIR Illuminator	Output Power	4mW Low Power (Class 1) >125mW High Power (Class 3B)
	Divergence	1 – 8 degrees
	Wavelength	860nm

NIR Illuminator (LED)	Output Power	35mW
	Divergence	160degrees
	Wavelength	850nm

All performance values are nominal unless otherwise indicated

USER BENEFITS

- Extremely compact and lightweight design minimizes impact on the host weapon system
- Ability to quickly adjust aiming and illumination laser intensity to support dynamic battlefield conditions
- Integrated NIR LED for confined space and CQB operations
- Independently adjustable NIR Illuminator from the Aiming Lasers
- Intuitive user interface
- Seven position mode selector switch, with additional positions available for future capability enhancements
- Adjustable display and LED brightness for day or night operation
- MIL-STD-1913 rail interface to mount to a wide variety of weapon platforms
- Operates on a single CR123 battery