



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 (VCSEL), 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.

USER BENEFITS

- **Ultra-Lightweight & Balanced:** Weighs under 6 oz to maintain weapon balance in high-mobility and CQB environments.
- **All-in-One Laser Capability:** Combines red or green VIS laser, IR aim laser, IR illuminator, and wide-angle NIR LED flood in one compact unit.
- **Quick-Adjust Laser Intensity:** Instantly adapt aiming or illumination power to match distance or lighting conditions.
- **Wide-Angle IR Flood:** Integrated NIR LED provides full-scene visibility for confined spaces and room entries.
- **Personalized Laser Control:** VIS and CQB override buttons are user-configurable for instinctive activation under pressure.
- **Independent IR Illuminator Tuning:** Adjust beam divergence and location without affecting aiming lasers.
- **Fast-Access Controls:** Easy to use buttons and rotary dial ensure quick operation under stress.
- **Expandable Mode Selector:** Seven-position dial includes open slots for future feature upgrades.
- **OLED Display with Dimming:** Manual brightness control and auto-dimming sensor for day/night adaptation. Display can be disabled during operation.
- **Built for Glove Use:** Aptly design buttons for confident manipulation with gloves.
- **Universal Mount Compatibility:** MIL-STD-1913 rail grabber secures tightly to standard weapon platforms.
- **Simple Power Source:** Runs on a single CR123A battery for reliable field operation.

RAIL FEATURES Nominal unless otherwise stated

Weight	< 6 oz. (<170g) with battery
Max Dimensions	L: 3.7" (93.98mm) with lens cover deployed W: 2.4" (60.96mm) with lens cover stowed H: 1.4" (35.56mm) above rail
Power	Single CR123 Battery
Mounting Interface	MIL-STD-1913 Rail Grabber
Visible Pointer	
Output Power	3mW Low Power (Class 3R) 25mW High Power (Green, Class 3B) 38mW High Power (Red, 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	830nm
NIR Illuminator	
Output Power	7mW Low Power (Class 1) >135mW High Power (Class 3B)
Divergence	~15-350 mrad (~1-20 deg)
Wavelength	850nm
NIR Illuminator LED	
Output Power	35mW
Divergence	180 degrees
Wavelength	850nm



