



OVERVIEW

CIPHR delivers the advanced capabilities of full-size battlefield observation systems in one of the smallest and lightest tactical laser rangefinders on the market. This all-digital, handheld unit combines a low-light color imager (4.5x / 9x zoom), precision laser rangefinder, GPS, digital compass, NIR pointer, and illuminator, compact enough to fit in a MOLLE pouch and light enough for all-day carry.

With built-in image capture, video output, and optional enhancements like TAK integration and an onboard ballistic solver, CIPHR gives operators elite-grade optics and data-sharing tools in a mission-ready form factor.

USER BENEFITS

- **Digital, Night Capable (cloudless starlight) PLRF**
- **Big Capabilities, Small Form Factor:** Full-featured optics in a device that fits in a MOLLE pouch, <48 cu/ weighs under 1.5 lbs.
- **Precision Laser Rangefinding:** <0.5 mrad divergence with up to 5 km range.
- **Daytime & Low-Light Imaging:** CMOS sensor supports both color and monochrome with 4.5x optical / 9x digital zoom.
- **Built-In GPS & Digital Compass:** Share precise coordinates with your team or command.
- **NIR Pointer & Illuminator:** For low-light visibility and NIR target marking.
- **Standard & Scan Modes:** Quickly acquire and discriminate targets.
- **Stabilized Rangefinding Mode:** Minimizes hand shake for improved accuracy.
- **Digital Integration Ready:** Push data and images to TAK via CoT
- **Video Output:** Wired (USB 2.0) and wireless (H.264 over WIFI) for live feed and data offload.
- **Rechargeable Power:** Dual 18650 battery pack with USB-C and external power options.

CIPHR FEATURES

Weight	< 1.5 lbs. (680g)
Max Dimensions	< 48 cubic inches L: 6" (152.4mm) W: 4" (101.6mm) H: 2.5" (63.5mm)
Imager	4K Color Low Light CMOS
Display	HD (SXGA) MicroOLED 4.5x mag. with 2x/3x Lossless Zoom
LRF (Stabilized)	1550nm, Class 1, eyesafe >1500m on 10% reflective man-size target >2000m on 30% reflective NATO target
GPS / Self Location	Integrated commercial GPS External GPS connection supported TRP based self location
Direction Finding	Integrated DMC Terrestrial North finding (option) 9-axis IMU
User Interface	7 button UI with color OLED micro display (D-Pad + 2 user configurable buttons)
Power Source	Custom 2x 18650 pack (with USB-C charge port 4x CR123 pack (to be developed) External power via USB-C
Battery Capacity	> 4hrs of runtime
Tripod Compatibility	ARCA Rail & ¼" Mounting
Additional Features	TAK Integrated Integrated AB ballistics solver (option) Passive Ranging (option) Automated Threat Recognition (option)
NIR Pointer	
Output Power	150+ mW with Variable Divergence (1-4 degrees)
NIR Illuminator	
Output PowerPower	200+ mW, Class 3b, for target marking

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