

HD650LRF

LRF Thermal Riflescope

640 x 512 thermal riflescope - 50 mm F1.0, 1200 m LRF, ballistic calculator, 2600 m detection

The HD650LRF is a 640 x 512 thermal imaging riflescope with a 50 mm F1.0 objective and an integrated 1200 m laser rangefinder. Detection reaches 2600 m on a 1.8 m x 0.5 m target, and the on-board ballistic computer holds five profiles (A-E) with selectable gun profiles or fully custom drop values.

Two features stand out in the field. First-shot auto zero completes a 25 m zero in a single guided shot with a 15-second countdown. Recoil-activated recording automatically captures the 15 seconds before and after each shot, so nothing is missed when reviewing a session.

KEY FEATURES

- 640 x 512 VOx detector at 50 Hz, NETD <= 20 mK
- 50 mm F1.0 objective - 8.8 deg x 7.0 deg field of view
- 1200 m laser rangefinder (905 nm), +/- 1 m accuracy
- Detection 2600 m on a 1.8 m x 0.5 m target
- Ballistic calculator with 5 profiles and custom drop values
- First-shot auto zero and recoil-activated video recording
- 64 GB internal storage, Wi-Fi, 1x - 8x digital zoom

TECHNICAL SPECIFICATIONS

Model	HD650LRF
Sensor type	VOx uncooled
Sensor resolution	640 x 512
Pixel pitch	12 um
NETD	<= 20 mK
Frame frequency	50 Hz
Objective lens	50 mm / f1.0
Angle of view	8.8 deg x 7.0 deg
Digital zoom	1x - 8x
Detection distance (1.8 m x 0.5 m)	2600 m
LRF measurement range	1200 m
LRF wavelength	905 nm
LRF accuracy	+/- 1 m
Display type	AMOLED
Display resolution	2560 x 2560
Palette	White Hot / Black Hot / Ironbow / Glowbow / Sepia / Red Hot / Green Hot
Reticle	10 types (R1 - R10), 9 colour options, 1 mil ticks
Zeroing profiles	5 profiles (A - E)
Ballistic calculator	Selectable gun profiles plus custom drop values
Auto zero	First-shot auto zero at 25 m
Recoil-activated recording	15 s before and 15 s after each shot
Scene modes	City / Forest / Stone / Bird
Built-in memory	64 GB
Microphone	Built-in, on/off
Battery	4 x 16340 or 4 x 18350
Working time (Wi-Fi off)	4.5 hrs (16340) / 6 hrs (18350)
Weight (without battery)	930 g
Dimensions	290 x 87 x 73 mm

TECHNICAL SPECIFICATIONS (continued)

Protection	IP67
Working temperature	-20 C to +50 C

TYPICAL APPLICATIONS

Long-range night hunting, wildlife management and culling programmes, law enforcement observation, border and perimeter security, precision shooting with ballistic compensation.