PRODUCT TECH SHEET

SCAN FOR VIDEO

MODEL	TD433L – GEN 3		
STYLE	Thermal Monocular with LRF		
RELEASE	Apr 2025	RRP	$2399

Guide outdoor

DIMENSIONS

LENGTH	159mm (6.3")
WIDTH	54mm (2.1")
HEIGHT	74mm (2.9")
WEIGHT	370g (excl batt)

PROTECTION

IP67 (water resistant to 1m for 30 mins)

POWER

1 x 18650 Li-ion Battery

SUMMARY

The **GUIDE TD433L GEN 3** monocular is a feature-packed thermal monocular perfect for quick spotting and range assessment - with a laser rangefinder that is accurate to up to 1000m. Packing a 400 x 300 sensor that features a NETD of sub-25mK, this palm-sized handheld with its 35mm lens has a detection range of 1800m, with an identification range just over 450m. A 4x digital magnification varies from the base magnification of 2.9x up to 11.6x.

The 35mm lens gives the **TD433L** a narrow 14m x 10m field of view at 100m and an extra 500m over its 25mm lens younger brother, with images popping-up crystal clear on its 0.36" AMOLED 1280×960 viewing screen. 16GB of internal EMMC memory, dual-band wi-fi (2.4G and 5.0G), Bluetooth and a huge offering of seven (7) colour palettes to choose from, all come in a compact device that has a huge 12 hour battery life via just one 18650 battery (two supplied).

At just 370g, or 415g including the battery, this small unit slots nicely into a hunting pocket, with single index-finder focus control and one-handed operation with all buttons close-to-hand.

KEY FEATURES

- 400 × 300 resolution @12μm thermal detector for crisp thermal detail.
- High sensitivity thermal module NETD <25 mK (@25℃, F# = 1.0), ensuring perfect image quality and detail recognition even in the toughest weather conditions.
- 35mm germanium F1.0 thermal lens with a detection range up to 1800m.
- 1000m laser rangefinder built under the main lens.
- 0.39" AMOLED 1920×1080 display screen for excellent clarity.
- 7 Colour Palettes - *White Hot; Black Hot; Red Hot; Green Hot; Iron Red; Blue Hot; Sepia.*
- Up to twelve (12) hours of continuous operation using 1 x 18650 Li-ion rechargeable, replaceable battery.
- 370g lightweight, compact and ergonomic design with rubber lens cover and faux-leather, 'grippy' outer skin and a reversible strap for left- or right-hand use.

TECHNICAL DETAILS   [3 Year Warranty]

THERMAL MODULE:

Image Sensor	VOx Uncooled Focal Plane Arrays CMOS
Maximum Resolution (Thermal)	400 x 300
Frame Rate	50Hz
Pixel Interval	12 μm
Response Waveband	8μm to 14μm
NETD	Less than 25 mK (@25°C), F# = 1.0
Lens (Focal Length)	35mm, F1.0
Focus Mode	Focus Dial (upper rear of device)
Detection Range	1800m
Recognition Range	900m
Identification Range	450m
Minimum Focusing Distance	1m
Magnification	2.9x to 11.6x (4x)
Field of View (Degrees) @100m	7.9° × 5.9°
Field of View (H x V) @100m	14m × 10m

IMAGE DISPLAY:

Display	0.39" AMOLED 1920×1080
Palettes (Thermal)	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
Exit Pupil	8mm
Eye Relief	20mm
Dioptre (Range)	-6 D to +6 D
Zoom	13.8x

SYSTEM:

Capture Snapshot	Yes
Audio Recording	Yes
Video Recording	Yes
Standby Mode	Yes (includes SMART Auto Screen Off on tilt)
Storage	Built-in EMMC (16GB)
Local Album	Yes
Wi-Fi	Dual Band - 2.4GHz and 5Ghz
Bluetooth	Yes

POWER SUPPLY:

Battery Operating Time	Approximately <12 hours (at 25°C)
Battery Type	1 x rechargeable, replaceable Li-ion Battery
Type-C Power Supply	USB Type-C (Power Supply/USB 2.0)

GENERAL:

Protection Level	IP67 (30 minutes under 1m of water)
Dimensions	159mm x 54mm x 74mm (6.3" x 2.1" x 2.9")
Weight	370g excluding battery, 415g including battery.
Working Temperature	-20°C to +50°C
Mounting Adaptor (Tripod)	1/4" Internal Thread -20-UNC
Included in Box	Device, Hand Strap, Eye Mask, Battery Charger, 18650 Battery ×1, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card

LASER RANGEFINDER:

Safety Class for Laser	Class 1
Wavelength	905nm
Maximum Measuring Range	1000m
Measurement Accuracy	±1m
Minimum Measuring Range	3m

SECTION FOR HOLE PUNCHES

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