



SCAN FOR INFO

PRODUCT TECH SHEET

MODEL		TD653L - GEN 3				
STYLE		Thermal Monocular with LRF				
RELEASE	July 2025	RRP	\$3499			
						
				DIMENSIONS		
				LENGTH	190mm (7.5")	
				WIDTH	68mm (2.7")	
				HEIGHT	88mm (3.5")	
WEIGHT	472g (excl batt)					
PROTECTION						
IP67 (water resistant to 1m for 30 mins)						
POWER						
1 x 18650 Li-ion Battery						

SUMMARY

The **GUIDE TD653L 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 an amazing 640 x 512 sensor that features a NETD of <20mK, this palm-sized handheld with its large 50mm lens has a detection range of 2600m, with an identification range just over 650m. An 8x digital magnification varies from the base magnification of 2.6x up to 20.8x.

The 50mm lens gives the **TD653L** a 15m x 12m field of view at 100m with a generous 8.8° x 6.6° spread, with images popping-up crystal clear on its 0.36" AMOLED 1280x960 viewing screen. 32GB 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 10 hour battery life via one 18650 battery (one supplied in the box).

At just 472g, or 517g 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

- 640 × 512 resolution @12µm thermal detector for crisp thermal detail.
- High sensitivity thermal module NETD <20 mK (@25°C, F# = 1.0), ensuring perfect image quality and detail recognition even in the toughest weather conditions.
- 50mm germanium F1.0 thermal lens with a detection range up to 2600m.
- 1000m laser rangefinder built under the main lens.
- 0.36" AMOLED 1920x1080 display screen for excellent clarity.
- 7 Colour Palettes - *White Hot; Black Hot; Red Hot; Green Hot; Iron Red; Blue Hot; Sepia.*
- Up to ten (10) hours of continuous operation using 1 x 18650 Li-ion rechargeable, replaceable battery.
- 472g 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. Carry case included.

TECHNICAL DETAILS

[3 Year Warranty]

THERMAL MODULE:

Image Sensor
Maximum Resolution (Thermal)
Frame Rate
Pixel Interval
Response Waveband
NETD
Lens (Focal Length)
Focus Mode
Detection Range
Recognition Range
Identification Range
Minimum Focusing Distance
Magnification
Field of View (Degrees) @100m
Field of View (H x V) @100m

VOx Uncooled Focal Plane Arrays CMOS
640 x 512
50Hz
12 µm
8µm to 14µm
Greater than 20 mK (@25°C), F# = 1.0
50mm, F1.0
Focus Dial (upper rear of device)
2600m
1300m
650m
1m
2.6x to 20.8x (8x)
8.8° x 6.6°
15m x 12m

IMAGE DISPLAY:

Display
Palettes (Thermal)
Exit Pupil
Eye Relief
Dioptre (Range)
Zoom

0.36" AMOLED 1280×960
White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
8mm
20mm
-6 D to +6 D
13.8x

SYSTEM:

Capture Snapshot
Audio Recording
Video Recording
Standby Mode
Storage
Local Album
Wi-Fi
Bluetooth

Yes
Yes
Yes
Yes (includes SMART Auto Screen Off on tilt)
Built-in EMMC (32GB)
Yes
Dual Band - 2.4GHz and 5Ghz
Yes

POWER SUPPLY:

Battery Operating Time
Battery Type
Type-C Power Supply

Approximately <10 hours (at 25°C)
1 x rechargeable, replaceable Li-ion Battery (1 supplied)
USB Type-C (Power Supply/USB 2.0)

GENERAL:

Protection Level
Dimensions
Weight
Working Temperature
Mounting Adaptor (Tripod)
Included in Box

IP67 (30 minutes under 1m of water)
190mm x 68mm x 88mm (7.5" x 2.7" x 3.5")
472g excluding battery, 517g including battery.
-20°C to +50°C
1/4" Internal Thread -20-UNC
Device, Dust-Free Cloth, Hand Strap, Eye Mask, Battery Charger, 18650
Battery x1, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C
Cable, Quick Start Guide, Warranty Card

LASER RANGEFINDER:

Safety Class for Laser
Wavelength
Maximum Measuring Range
Measurement Accuracy
Minimum Measuring Range

Class 1
905nm
1000m
±1m
3m

