

TVS 11M-640

THERMAL MONOCULAR



Display

TVS 11M-640 is the next generation of Newcon Optik's field-proven thermal imaging product line. Designed as a multipurpose thermal imager, the extremely lightweight and compact TVS 11M-640 can be deployed handheld, helmet or weapon-mounted configuration. Using a state-of-the-art uncooled thermal sensor, the TVS 11M-640 delivers incredibly clear images while achieving continuous operation of over 4 hours.

The TVS 11M-640 is fully MIL-SPEC and features a built-in 2x and 4x digital zoom which can be paired with an optional 2x A focal magnification lens for enhanced distance performance. With video-output as a standard feature, internal video/photo recording and a built-in IR laser pointer, the TVS 11M-640 is the ideal thermal monocular for military, police, and search & rescue applications.

Sensor	TVS 11M-640
Resolution (pixels)	640x512
Operating wavelength (μ)	7.5 - 13.5
Sensitivity (mK @F1.0)	<40
Video Output	PAL
DRI (m):	
Human	1,167/292/146
Vehicle	3,157/789/395
Multiple colour options	Yes
Optics	
Objective focal length (mm)	35
Field of view (°)	17.7 x14.2
Eye relief (mm)	26
Dioptric correction	±5
Zoom	Continuous zoom from 1x to 4x
Mechanics, Electronics & Environmental	
Dimensions (mm)	150x72x50
Weight without batteries (g)	410
Battery type	1800m Ah Li-on, 2x CR123 Lithium batteries or 2x rechargeable CR123
Battery life (hours)	4 (3 with rechargeable)
Operating Temperature range (°C)	-35 to +60
Storage Temperature range (°C)	-40 to +65
Waterproofing	MIL-STD-810G
Optional weapon-mounting systems	S Mount, QR Mount
Weapon compatibility	Rifles, Machine guns & Anti-armour systems (RPG, Carl-G)
Aiming reticle	Yes
Internal video/photo recording	Yes
Integrated Laser	
Laser wavelength (nm)	830 ±20
Laser output, min (mW)	30
Laser class	3B
Laser beam divergence (mrad)	1
Laser spot size at 50m (mm)	40
Detectable by:	
Night vision	+
Thermal vision	-
Detection range (km)	>2



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DELIVERY SET

Supplied with the following standard accessories:

- Soft carrying case
- 3.7V/1800mAh Li-on or 2xCR123 Lithium batteries
- Objective lens cover
- Video cable
- Head gear
- Lens cleaning cloth
- Operation manual

OPTIONAL ACCESSORIES



MIL-SPEC Hard Case for TVS 11M



TVSD

External recording and viewing module for TVS 11M



TVS SE

Shuttered eyepiece



NVS S Mount

Shroud Helmet mount for TVS 11M



TVS 2x Lens

2x afocal add-on lens for TVS 11M



Shown on rifle with NVS QR Mount and TVS SE

