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NO/TS-640 Thermal Weapon Sight

Key Features

- Day and Night Capable 640x480, 17 Micron Thermal Sight
- 30Hz Real-time Imaging
- Choice of Reticles
- Medium and Long-Range Engagements
- Optional 3X Variant



NO/TS-640

Powerful thermal weapon sight for day and night use in virtually any environment. Multiple standard and optional reticles configured to shooter's choice. NTSC or PAL video output. Light-weight system includes quick-release 1913 Mount.

- NTSC or PAL Video Output
- Quick-release 1913 Mount
- External Power Adaptor
- 640x480 Display

Technical Specifications System Specifications

Detector

FPA Format:	640 x 480
Type and Material:	Amorphous Silicon Microbolometer
Cooling:	Uncooled
Spectral Response Sensitivity:	7—14 μm
NETD (Thermal Sensitivity):	<50mk
Refresh Rate:	Real-time 30 Hz

Performance

Detect Human Activity:	STD: > 1250 meters 3X: > 2500 meters
Optics:	STD: f1.2, Manual Focus 3X: f1.2, Manual Focus
Field of View:	STD: 14° 3X: 6°
Continuous Operation:	6+ Hours

Physical Features

Diopter Adjustment:	-6 to +2
Eye Relief:	27mm
Weight:	STD: 700gr (25 oz) 3X: 1265gr (44.6 oz)
Dimensions:	STD: 205x65x72mm (8x2.6x2.8in) 3X: 289x65x62mm (11.3x2.8x2.6in)
Power Requirement:	(4) CR123 Batteries or 9-28v DC External Power Supply
Display:	640 x 480 pixels
Video Output:	NTSC (STD) PAL (on request)
Waterproof:	YES

Graphical Features

Polarity Control:	Black Hot/White Hot
Temperature Reading:	YES
Colorization:	Monochrome (color optional)
PLUS:	4 unique user settings custom tailored for: Reticle design Weapon with calibrated zero Color Brightness Contrast



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Kit Components

- NO/TS-640 Thermal Weapon Sight
- Travel/Storage Case
- CR123 Batteries
- Quick Release 1913 Mount
- Eye Cup
- Operator's Manual
- Quick reference Guide
- External Power Cable
- Video-Out Cable

Optional Accessories

- Hand Strap
- CR123 Battery (3v)
- Camera/Camcorder Adaptor

Additional Features

- Shortcut access to "Favorites" settings
- 4 Custom User Settings
- Reticle memorization
- Backlight adjustment
- Power-conserving "Standby" mode
- Side Accessory Mount

The NO/TS-640 is a rugged, lightweight and powerful Thermal Weapon Sight incorporating a state-of-the-art, 17-micron pitch thermal core for extremely sharp 640x480 image resolution. Made for military, law enforcement, commercial and private use, the NO/TS-640 is ideal for mid-to-long-range target engagements as well as reconnaissance and surveillance, perimeter security, wildlife observation and control, and a wide variety of other applications.

While night vision technology relies on amplification of ambient light or assisting illumination, thermal devices are completely passive, sensing extremely minute temperature differentials to acquire targets in daylight and complete darkness while "seeing through" obscurants such as smoke and haze.

The highly sensitive NO/TS-640 combines a 17 micron pitch, 640x480 uncooled, Amorphous Silicon Microbolometer Detector with real-time image processing; and Night Optics' proprietary electronics sealed in a lightweight, waterproof housing. Sensitive to less than 50mK, the uncooled detector's 7-14μm spectral response and 640x480 high resolution display ensure crisp "white hot" or "black hot" images regardless of ambient conditions.

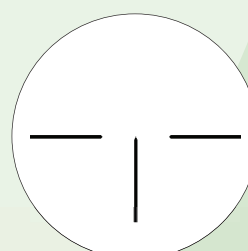
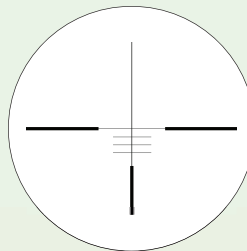
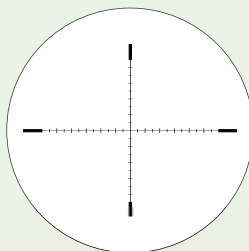
The TS-640 Thermal Weapon Sight includes four instantly-recalled, unique user settings with reticles custom tailored for individual weapons with corresponding zero, color, brightness and contrast. The standard system with 14° field of view and optional 3x system with 7° field of view both include integrated 2x and 3x electronic zoom settings.

Additional integrated features include a proximity sensor-triggered, power conserving Standby Mode; shortcut key for quick access to "Favorites" settings; focus, brightness and contrast adjustments; white-hot/black-hot polarity and digital zoom controls; NTSC or PAL video-out capability; and a Quick-release 1913 mount.

Powered by internal batteries or a 12v external power source, the NO/TS-640 converts to a hand-held monocular with optional hand strap to ensure easy and stable use.

The NO/TS-640 is the ideal all-weather, all-condition, medium-to-long-range Thermal Weapon Sight.

TS-640 Reticle Patterns



Export of Night Vision and Thermal Devices is subject to the International Traffic in Arms Regulations (ITAR) per title 22, Code of Federal Regulations (CFR), Parts 120-130, and requires approval of the U.S. Government. Consult Night Optics USA, Inc for information regarding export requirements.