

RDTIFS640

Red-dot Thermal Imaging Fusion Sight

640 x 512 red-dot thermal fusion sight - 1x, 10,000 h red-dot runtime, 6 h fusion runtime, IP67

The RDTIFS640 is a 1x red-dot sight with an integrated uncooled thermal imager. The shooter keeps a conventional red-dot reticle for daylight and close-quarters work, then switches on the infrared channel for full night capability - both from the same optic, with no re-zeroing and no separate night vision device.

A single CR123A cell delivers over 10,000 hours in red-dot-only mode and 6 hours or more with the thermal channel running. The 640 x 512 detector places this model in the high end - best recognition performance bracket. The aluminium body is sealed to IP67 and a Type-C port accepts external power for extended static use.

KEY FEATURES

- Infrared detector 640 x 512, 12 um pixel pitch
- Over 10,000 hours red-dot runtime / 6+ hours fusion runtime
- Red dot, red circle and dot-and-circle reticles
- Thermal modes: black hot, white hot, outline
- IP67 sealed, CNC aluminium body, 450 g

TECHNICAL SPECIFICATIONS

Model	RDTIFS640
Infrared detector type	Uncooled vanadium oxide (VOx)
Detector resolution	640 x 512
Detector pixel pitch	12 um
Infrared lens focal length	19 mm
Field of view (IR)	9 deg x 6.7 deg
Display type	OLED
Display resolution	1024 x 768
Display modes	Black-hot / White-hot / Outline
Magnification	1x
Display window size	30 mm x 23 mm
Reticle types	Red dot / Red circle / Dot-and-circle
Red-dot size	<= 3 MOA
Parallax	<= 2 MOA
Brightness setting	15 levels daytime / 5 levels night vision (red-dot mode)
Battery	CR123A (3 V and 3.7 V compatible)
Continuous runtime (red-dot only)	>= 10,000 hours
Runtime (fusion mode)	>= 6 hours
Battery indicator	Real-time
Click adjustment range	+/- 40 MOA (elevation and windage)
Click adjustment increment	0.5 MOA
Mount interface	Picatinny rail
Overall dimension	<= 95 x 55 x 90 mm
Sight line height	38 mm
Weight	450 g
Operating temperature	-20 C to +65 C
Storage temperature	-40 C to +70 C
Ingress protection	IP67
External power	Type-C (external supply only, does not charge internal battery)

TECHNICAL SPECIFICATIONS (continued)

Auto power off

Red-dot shuts down after 30 minutes without operation

TYPICAL APPLICATIONS

Close-quarters and urban operations, patrol and law enforcement, day and night hunting, personal defence, OEM/ODM integration into weapon platforms.