

640 640ER SERIES

The devices of the 640 series can be used universally. Thus, the change from a hand-held observation device to a targeting device on a scoped rifle is possible in seconds thanks to our patented quick-mounting system with high repeat accuracy.

Of course, where legally permissible, the devices can also be used as a target device

in the shortest possible time thanks to the simple and intuitive menu navigation. In all modes, the 640 series convinces with a very high detection performance at all distances, a clear and high-contrast image and thus lays the foundation for a successful mission.



MAIN FEATURES 640'S

- Multi-purpose thermal imagers with switchable modes of use (Observation-, Clip-on-, Targeting Device)
- In-line optics, factory calibrated (no offset when used as a Clip-on) Plug and Play, no sighting in necessary
- Adaptive local contrast gain and automatic gain adjustment
- Digital zoom: 1x, 2x, 4x, 8x
- Customized usage modes, reticle, menu system and color palettes
- Built-in interface for power supply and remote control (optional)
- Photo and video recording, live video via USB, Bluetooth, wifi (optional)
- USB-C compatible data and charging port
- Remote control (optional)
- Body with protective rubber (increased grip and protection)
- Various weapon mounts available (STANAG 4694 - NATO Accessory Rail / Picatinny, hook frog mount)
- Made in Germany with key components from European production
- ITAR free



TECHNICAL DATA 640 SERIES

		TC-640-50	TC-640-60
SYSTEM	Use Sensor Sensor NETD Sensor Spectrum Objective Lens Field of view Display Resolution	Hand held, front attachment, weapon sight 640 x 480, 12 μ, 60 Hz < 40 mK LWIR (8 - 14 μm) 50 mm, f/1.0 8.8° x 6.6° (d 11.0°) 640 x 480 / 1280 x 960	640 x 480, 12 μ, 60 Hz < 40 mK LWIR (8 - 14 μm) 60 mm, f/0.95 7.3° x 5.5° (d 9.1°) 1280 x 960
DIMENSIONS	Length / Height / Width Weight incl. Battery	144 / 66 / 66 mm < 520 g	156 / 76 / 74 mm < 600 g
WORKING RANGES*	Detection Recognition Identification	2400 m 810 m 420 m	2700 m 980 m 510 m
POWER	Battery Run-Time External Power Supply	8 h USB Type C	8 h USB Type C
ENVIRONMENT	Operating Temp. Storage Temp. Immersion Rifle Shock	-32°C to +63°C -40°C to +70°C 10 m 750 g	-32°C to +63°C -40°C to +70°C 10 m 750 g
IMAGING CHARACTERISTICS	Focus Diopter Adjustment Magnification Alignment Digital Zoom Optical Co-Use Display Color Image Storage Video Storage (h.264)	manual collimated to scope 1 x < 0.34 mrad 1x, 2x, 4x, 8x 2 x bis 6 x full color, RGB > 1000 approx. 4 h	manual collimated to scope 1 x < 0.25 mrad 1x, 2x, 4x, 8x 2 x bis 8 x full color, RGB > 1000 approx. 4 h
OTHER	Digital Compass / IMU Weapon Mount	yes customer specific	yes customer specific

* Range performance simulation with TRM4 v3 according to STANAG 4347 with human sized target