



TigIR-6Z+™

04/03/2024

Technical Data



Front view, black - illustration similar



Back view, olive - illustration similar

Technical Data	
Model	TigIR-3Z™
Ordernumber	240401
User group	civil user
Microbolometer resolution	640x512 (60Hz)
Temperature resolution	<40mK
Zoom (digital)	0.7x/0.8x**, 1x, 2x, 4x, 6x
for optics with an own magnification between	3-6x
Spectrum / Pixel pitch	7,5 –13,5 µm / 12 µm uncooled microbolometer
Sunlight sensitivity	looking directly into the sun is possible for short periods
Filter modes	(Boost) White Hot, (Boost) Black Hot, (Boost) Red Hot, (Boost) Cold Red, (Boost) Cold Green, Rainbow, Rainbow HC, Iron Bow, Glow-bow, Hottest
Video output	PAL/NTSC
Display resolution	(Micro-)OLED 873x500 Pixel
Angle resolution	0,0125°/0,75°/45° corresponds to 2,18 cm/px at 100m
Field of view	horizontal 8° / vertical 6.4°
Battery 2xCR123 (thermal)	about 10:30 h
Battery 16650 (thermal)	about 8 h
Temperature range	operating: – 30° bis +60°C storage: – 40° bis +80°C
Water resistance	IP 68
Shock resistance	acc. MIL-STD-810G 516.7 I (26 drops out of 1,22m/4ft)
Material	Aircraft grade aluminum (hard anodized and scratch-resistant ceramic-coated)
Farben	Foliage Green
Dimensions (without accessories, e.g. eye cup)	length: 100 mm; width: 78 mm; height: 80 mm
Weight (without batteries)	about 527g
Zubehör	Camera Adapter, TigIR magnifier eyepiece 3x, Video and Power Cable, Video Recorder

* After a heavy fall, the water resistance must be checked.

** depending on configuration

The shortest thermal imaging device with 55mm lens

The TigIR-6Z+™ is currently the lightest and shortest Clip-on Thermal with 55mm optics. No other device with such a short overall length of only 111 mm achieves a range of 3000m (standing person). These small dimensions could only be achieved by developing a specially folded ocular optic. This makes it possible to use the device in front of different scopes (3-6x) etc. without loss of quality. Since the entire

housing is made of highly robust aluminium and the objective lens is athermal, the TigIR-6Z+™ has outstanding precision even under extreme temperature conditions. The housing surface is hard anodized and coated with Cerakote. The TigIR-6Z+™ can resist even hard impacts in a rough environment, but is not heavier than 527g/18,5oz and therefore lighter than any other comparable device.