

TigIR™ -Series

TigIR-3Z™



Model	TigIR-3Z™
Order number	240399
User group	civil/hunters
Temperature resolution	60mK (as special version also with 40mK)
Microbolometer resolution	320x256 (60Hz)
Zoom (digital)	1,6x, 2x, 4x, 8x, 11x
Focal length	55mm
Spectrum/Pixel pitch	7.5–13,5 μm / 12 μm uncooled microbolometer
FFC (calibration modes)	internal mechanical shutter (can be deactivated) + software calibration (NUC) + manual calibration via front flap
Sunlight sensitivity	harmless
Filter mode	(Boost) White Hot, (Boost) Black Hot, (Boost) Red Hot, (Boost) Cold Red, (Boost) Cold Green, Rainbow, Rainbow HC, Iron Bow, Glowbow, Hottest
Video output modes	PAL/NTSC
Display resolution	(Micro-) OLED 873x500 Pixel
FOV (at 100m)	horizontal 4°, vertical 3.2° (7.0m/ 5.6m)
Angle resolution	0.0125°/0.75"/45" corresponds to 2.18 cm/px at 100m
Use as a clip-on device	for optics with an own magnification between 3-6x
Battery operating time 4x CR123	about 15h
2x 16650 rechargeable battery	about 13h
Temperature range	operating: -30° to +50°C storage: -40° to +80°C
Water resistance	IP68
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)
Dimensions (without accessories)	length: 111mm (4.37"); width: 78mm (3.07"); height: 80mm (3.15")
Weight (without mounts/battery)	ca. 527g/18.5oz
Mounting options	1/4"-20 UNC tripod thread, M52x0.75
Accessories	Camera adapter, TigIR magnifier eyepiece 3.5x, Video and power cable, Video recorder

The shortest thermal imaging device with 55mm lens

The TigIR-3Z™ is currently the lightest and shortest Clip-on Thermal with 55mm optics. No other device with such a short overall length of only 111mm 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-3Z™ has outstanding precision even under extreme temperature conditions. The housing surface is hard anodized and coated with Cerakote. The TigIR-3Z™ 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.