



TigIR-Z20™

04/03/2024

Technical Data



Front view, black - illustration similar

Technical Data	
Model	TigIR-Z20™
Ordernumber	240411
User group	civil user
Microbolometer resolution	640x512 (60Hz)
Temperature resolution	<20mK
Zoom (digital)	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 Objective (at 100m)	horizontal 8° (14m) / vertical 6.4° (10,5m)
Battery 2xCR123 (thermal)	about 10:30 h
Battery 16650 (thermal)	about 10:30 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: 112 mm; width: 82 mm; height: 80 mm
Weight (without batteries)	about 527g
Zubehör	observation eyepiece, video and power cables, tripod rail for QDmounts (e.g. ERATAC) according to STANAG 4694 and MILSTD-1913/STANAG 2324

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

** depending on configuration

The shortest thermal imaging device with 55mm lens

The TigIR™ is currently the shortest Clip-on Thermal with 55mm optics. The device is ideally suited for use in combination with 3-4x magnifying scopes. The extremely short design of only 11cm makes it possible to be mounted on machine guns, where due to the design there is only little space available for an attachment. In combination with scopes, such as the ELCAN Specter, the device protrudes only

10cm beyond the optics. The robust aluminum housing offers good protection against drops and ensures consistently high precision even at different environmental temperatures. Suitable for machine guns and DMRs.