



TILO™ - Series

TILO-3Z+2x™



		Technical Data Sheet
Model		TILO-3Z+ 2x™
Order number		380105
User group		civil users
Microbolometer resolution		320×256 Pixel 60Hz
Temperature resolution		<40mK
Radiometry		—
Zoom (digital)		1,6x, 2x, 4x, 8x, 16x
Optical magnification		2x
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, Glowbow, Hottest
Video output		PAL/NTSC
Display resolution		(Micro-)OLED 873×500 pixel
Field of view		horizontal 12° / vertical 9,5°
Battery	light only	up to 24 h
	1× CR123 thermal only	about 3:15 h
Battery 2×CR123 (thermal)		about 7:00h
Battery 16650 (thermal)		about 6:00h
Helmet Mount		adapter for ballistic helmets optional
Head Mount		Head Mount adapter and head band optional
Light (three colors)		white: (boost: 160 ANSI lumens) normal 45 ANSI lumens, red (626 nm): 24 ANSI lumens, IR (940 nm): 15 ANSI lumens
Flashing, SOS		yes
Brightness control		8 steps
Temperature range		operation: -30° to +60°C storage: -40° to +80°C
Water resistance		IP 68
Shock resistance		MIL 810F 516 IV (26 drops from 1,22 m / 4 ft)
Material		housing: polyamid, cold break resistant, reinforced with nanotubes; color olive; eyepiece made of crystal sapphire
Dimensions (without accessories, e.g. eye cup)		length: 58 mm; width: 64 mm; height: 67 mm
Weight without batteries		approx. 128 g/4.5 oz w/o accessories

TILO-3Z+2x™

TILO™ stands for „Thermal Imaging Light Optics“ and „light“ is actually the TILO in two ways. It is not only the world's smallest thermal imaging goggle with a length of 4-6 cm and the lightest with 100 g-150 g. It is also equipped with high-performance LEDs. There is currently no comparable device with such

high technical performance in such a small design. The TILO™ was developed from the beginning as thermal imaging goggles. They can be worn on a helmet as well as on caps and headbands. Thus both hands remain constantly free. Its performance is comparable to larger hand-held systems.