

## TILO™ - Series

### TILO-6Z+™



		Technical Data Sheet
<b>Model</b>		TILO-6Z+™
<b>Order number</b>		380107
<b>User group</b>		civil user
<b>Microbolometer resolution</b>		640×512 Pixel 60Hz
<b>Temperature resolution</b>		<40mK
<b>Radiometry</b>		—
<b>Zoom (digital)</b>		0,8x, 1x, 2x, 4x, 8x
<b>Optical magnification</b>		1x
<b>Spectrum/Pixel pitch</b>		7,5–13,5 μm / 12 μm uncooled microbolometer
<b>Sunlight sensitivity</b>		looking directly into the sun is possible for short periods
<b>Filter modes</b>		(Boost) White Hot, (Boost) Black Hot, (Boost) Red Hot, (Boost) Cold Red, (Boost) Cold Green, Rainbow, Rainbow HC, Iron Bow, Glowbow, Hottest
<b>Video output</b>		PAL/NTSC
<b>Display resolution</b>		(Micro-)OLED 873×500 pixel
<b>Field of view</b>		horizontal 24° / vertical 19°
<b>Battery</b> 1× CR123	light only	up to 24 h
	thermal only	about 1:45 h
<b>Battery 2×CR123 (thermal)</b>		about 4:00h
<b>Battery 16650 (thermal)</b>		about 3:15 h
<b>Helmet Mount</b>		adapter for ballistic helmets optional
<b>Head Mount</b>		Head Mount adapter and head band optional
<b>Light (three colors)</b>		white: (boost: 160 ANSI lumens) normal 45 ANSI lumens, red (626 nm): 24 ANSI lumens, IR (940 nm): 15 ANSI lumens
<b>Flashing, SOS</b>		yes
<b>Brightness control</b>		8 steps
<b>Temperature range</b>		operation: -30° to +60°C storage: -40° to +80°C
<b>Water resistance</b>		IP 68
<b>Shock resistance</b>		MIL 810F 516 IV (26 drops from 1,22 m / 4 ft)
<b>Material</b>		housing: polyamid, cold break resistant, reinforced with nanotubes; color black; eyepiece made of crystal sapphire
<b>Dimensions</b> (without accessories, e.g. eye cup)		length: 58 mm; width: 64 mm; height: 67 mm
<b>Weight</b>		approx. 128g/4.5 oz w/o accessories

### TILO-6Z+™

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.