

MTIS319

Multifunctional Thermal Imager - 4-in-1

384 x 288 four-in-one thermal imager - handheld, riflescope, helmet and clip-on

The MTIS319 is a four-in-one thermal imaging system: the same device works as a handheld observation unit, a rifle-mounted sight on a Picatinny rail, a helmet-mounted night vision goggle with the helmet adapter, and a clip-on thermal attachment fitted in front of a daylight scope. No additional optical accessories are needed to change role.

A 384 x 288 VOx detector with 12 um pixel pitch feeds an AMOLED display at 50 Hz. Wi-Fi streaming, photo and video recording, a digital compass and a laser pointer are built in, and the unit runs for more than six hours on a single 18650 cell. The housing is sealed to IP67 and rated to 1000 G with the anti-shock mount.

KEY FEATURES

- One device, four roles: handheld / riflescope / helmet / clip-on
- 384 x 288 VOx detector, 12 um, 50 Hz, NETD <= 20 mK
- 19 mm objective - 13.8 deg x 10.4 deg field of view
- AMOLED display, 1x - 8x digital zoom, 7 reticles, 7 palettes
- IP67 sealed, 1000 G shock rated, under 325 g without battery

TECHNICAL SPECIFICATIONS

Model	MTIS319
Roles	Handheld / riflescope / helmet goggle / clip-on (4-in-1)
Sensor type	VOx uncooled
Sensor resolution	384 x 288
Pixel pitch	12 um
NETD	<= 20 mK
Frame frequency	50 Hz
Objective lens	19 mm
Angle of view	13.8 deg x 10.4 deg
Digital zoom	1x - 8x
Eye relief	20 mm
Diopter of eyepiece	+/- 4
Display type	AMOLED
Colour palette	White Hot / Black Hot / Ironbow / Glowbow / Sepia / Red Hot / Green Hot
Reticle type	7 types
Reticle colour	White / Black / Green / Reverse
Wi-Fi	Supported
Photo / video	Supported
Digital compass	Supported
Laser pointer	Supported
Battery	1 x 18650 (3.7 V)
Working time (Wi-Fi off)	> 6 hours
Weight (without battery)	< 325 g
Dimension (without eyeshade and Picatinny)	108 x 68 x 50 mm
Protection	IP67
Working temperature	-20 C to +50 C
Shock resistance	1000 G with anti-shock mounting

TECHNICAL SPECIFICATIONS

TYPICAL APPLICATIONS

Night patrol and surveillance, hunting, drone and vehicle observation, helmet-mounted night vision, clip-on thermal enhancement of existing daylight optics, OEM/ODM programmes.