

Imaging specification (optics)

Sensor resolution	384 x 288 px				
Pixel size	25 µm				
Objective lens type	Germanium				
Optical lens/focal length	19 mm	35 mm	54 mm	75 mm	100 mm
Optical magnification	1,1x	1,9x	3x	4,2x	5,6x
Field of view (H x V)	28,4°x21,5°	17,7°x13,3°	10,2°x7,6°	7,3°x5,5°	5,4°x4,1°
Digital zoom	Fluently 1,3x - 4x				
Luminosity	F 1				
Exit pupil diameter	27				
Exit pupil distance	25 - 65 mm				

Imaging performance (general specifications)

Refresh rate	50 Hz/PAL, 60 Hz/NTSC
Microbolometer type	Uncooled microbolometer
Start up time	< 4 s
Spectral response	8 - 14 µm
Thermal sensitivity (NETD)	< 50 mK 30 °C
Contrast, Brightness control	Manually - 10 levels
Sensitivity	<0,05 °C
Reticle	Choice from 5 types (for each type of choice from 3 colors), intensity control - 10 levels
Ruler	Ruler to measure the approximate distance
Reticle rectification	lens 19 mm - 68 mm lens 35 mm - 37 mm lens 54 mm - 24 mm lens 75 mm - 17 mm lens 100 mm - 12,5 mm
Memory for rectification	5 rectification
Minimal focusing range	2 m to ∞
Detection range (object 0,5 x 1,8 m)	Up to 2250 m

Imaging data

Built-in display	Color OLED 800 x 600
Contrast, Brightness control	Manually - 10 levels
Video output	Yes - PAL 75 ohm 1 vpp
Display modes	White hot/ Black hot/ and 6 various color modes
Display symbols	Menu, zoom, battery charging status, palette...
Diopter adjustment	Precision optics correction -5 to +6 diopters

Special user - Adjustable Imaging Tools

New generation digital detail enhancement	Yes, NEW 2016
Language versions	Yes
Active Contrast Enhancement	Yes
Linear Automatic Gain Control	Yes
One shot rectification	Yes

Type of power

Battery type	2x Li-ion 18650	2x Li-ion 16650	4 x CR123A	4 x RCR123A
Battery life	7,5 hrs	5 hrs	5 hrs	3 hrs
Battery status indicator	Yes, frequency 5 %			
Saving mode	Start in 0,5 s			
Internal battery charger	Yes (charging without having to remove the battery)			
External battery charger	Yes, 220 V/12 V (car battery)			
External power	Yes			

Communication

Video recording (One Touch Recording)	Yes - Mini Recorder (not included)
Diagnostic line	Yes

Operating conditions

Protection grades	Waterproof/dustproof (IP67)
Operating temperature	-20°C to +60 °C
Storage temperature	-40°C to +85 °C
Maximum recoil	7000 J

Dimensions weight

Weight including batteries (CR123A)	460 g (19 mm)	535 g (35 mm)	615 g (54 mm)	800 g (75 mm)	1079 g (100 mm)
Weight including batteries (Li-Ion 16650)	486 g (19 mm)	561 g (35 mm)	641 g (54 mm)	826 g (75 mm)	1105 g (100 mm)
Dimensions (W x H x D)	126 mm x 70 mm x 67 mm (with lens 19 mm)				
Mounting bracket	As required (Weaver, Blaser, atd..)				
Shutterless	Without calibration flaps using software algorithms. Fully quiet running.				

PACKAGE CONTENTS

Thermal riflescope EAGLE TSV14-02
 Lens cap
 4 pieces of batteries CR123
 Cloth for cleaning optics
 Datasheet
 Operation manual

NOW BONUS

extremely durable, waterproof case for each thermal vision EAGLE

Warranty - 3 years sensor, 10 years body