



VIDAR 2.0 Series
Thermal Imaging

Thermal Imaging Scope Vidar650 2.0

Technical Specifications



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VIDAR 650 2.0

Key Features

- Video recording, and snapshot, built-in memory chip up to 64GB.
- 640*512 thermal resolution, NETD less than 18mK.
- Two batteries enter to unprecedented 16-hour.
- A newly added shutter facilitates fast calibration.
- 1x--4x smooth or rapid zooming improves various experiences.
- Offer 5 different reticle colors to meet users' needs for visibility and contrast in various environments.
- Cutting-edge trajectory technology achieves even precise shooting at any distance.
- 1024*768 resolution with 0.39-inch OLED display.
- Picture in picture & RAV function.
- Polarity reversal for crosshairs.
- More APP-based features and extensions.

Applications

- Night hunting
- Observation

Specifications



Model		Vidar650 2.0
		Microbolometer
Type	Uncooled	
Resolution	640x512	
Pixel pitch	12μm	
NETD	≤18mK	
Spectral range	8-14μm	
Frame rate	50HZ	
Detection Range	2600m	
		Optics
Objective lens	50mm, F1.0	
Field of view	8.8° x 7.0°	
m@100m	15.4x12.3	
Magnification	2.8X	
Digital zoom	1.0-4.0X smooth & rapid zoom	
Eye relief	45mm	
Exit pupil	6mm	
Diopter	±5D	
		Aiming Reticle
Reticle	7	
Reticle color	5, Black. white, red, green, blue	
		Display
Type	AMOLED	
Resolution	1024x768	
Display size	0.39 inch	
Color palette	6	

Function	
Max. recoil power on rifled weapon	6000J
RAV	Yes
Audio Recording	Yes
Auto zeroing	Yes
Manual zeroing	Yes
Zeroing profiles	5
Freeze Zeroing	Yes
Picture-in-picture	Yes
Image calibration	Manual/Auto
Video Recorder	
Phone/video playback	Yes
Inbuilt memory	64GB
Interface	
Magnetic interface	Data transfer
Hotspot	Yes
Battery	
Battery type	Replaceable, 2*18650
Battery life	16h
Environment	
Operating temperature	-20- +50°C
IP rating	IP67
Weight, g	625
Size, mm	200.9*95.7*72
Accessories	
External cable	Magnetic interface data cable
Other accessory	Standard Picatinny rail, eyeshade, charger and etc.

Accessories



Picatinny rail(X1)



Allen key(X1)



Small allen key(X1)



Lithium battery(X4)



T2.9 Screw(X3)



Eyepiece hood(X1)



Magnetic charging wire(X1)



Charger(X1)



Lens cloth(X1)

Dimension

Unit: mm

