

Pixfra Sirius S650 Thermal Imaging Monocular Specification

Pixfra Sirius S650

Specifications

Thermal

Detector Type:	Vanadium oxide uncooled focal plane detector
Effective Pixels:	640 (H) × 512 (V)
Pixel Pitch:	12 μm
Spectral Range:	8 μm –14 μm
Sensitivity (NETD):	$\leq 18 \text{ mK}@f/1.0, 25 \text{ }^\circ\text{C}$
Focal Length:	50 mm
Aperture:	F0.9
Field of View:	H: 8.8°; V: 7.1°/H: 15.4 m; V: 12.3 m (@100 m)
Focus Control:	Manual
Close Focus Distance:	3 m (9.84 ft)
Detection Distance:	2,600 m (8,530.18 ft)
Recognition Distance:	662 m (2,171.92 ft)
Identification Distance:	331 m (1,085.96 ft)
Magnification:	3.45 \times
Frame Rate:	50 Hz

Display

Screen:	1440 × 1080, 0.41 inch, OLED
Color Palettes:	6 (white hot/black hot/iron red/alarm/emerald/amber)
Video Compression:	H.264
Diopter:	–5D to +3D
Eye Relief:	15 mm (0.59 inch)
Exit Pupil:	8 mm (0.31 inch)



Function

Digital Zoom:	1x, 2x, 4x, 8x
Video Recorder:	Yes
Snapshot:	Yes
Wi-Fi Hotspot:	Yes
Hot Spot Track:	Yes
FFC Calibration:	Auto, Manual, External Correction
Standby Mode:	Yes
DPC (Defective Pixel Correction):	Yes
MIC:	Yes
Compass:	Yes
Storage:	Built-in 64 GB

Power

Battery Type:	Replaceable 18650 battery
Battery Life:	6 h @25 °C (Wi-Fi off)
Power Supply:	5 VDC/2 A
Port:	USB Type-C
Overvoltage Protection:	Yes

General

Operating Temperature:	-30 °C to +55 °C (-22 °F to +131 °F)
Operating Humidity:	≤95%
Protection Grade:	IP67
Packaging Dimensions:	291 mm × 140 mm × 127 mm (11.46" × 5.51" × 5") (L × W × H)
Product Dimensions:	213.1 mm × 73 mm × 83.4 mm (8.39" × 2.87" × 3.28") (L × W × H)
Gross Weight:	1.27 kg (2.80 lb)
Net Weight:	537 g (1.18 lb)