

# Pixfra Sirius S650D Thermal Imaging Monocular Specification

## Pixfra Sirius S650D

### 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):	≤18 mK@f/1.0, 25 °C
Focal Length:	25 mm; 50 mm
Aperture:	25 mm: F0.88 50 mm: F1.1
Field of View:	25 mm: H: 17.9°; V: 14.2°/H: 30.7 m; V: 24.6 m (@100 m) 50 mm: H: 8.8°; V: 7.0°/H: 15.4 m; V: 12.3 m (@100 m)
Focus Control:	Manual
Close Focus Distance:	25 mm: 2 m (6.56 ft) 50 mm: 8 m (26.25 ft)
Detection Distance:	25 mm: 1,300 m (4,265.09 ft) 50 mm: 2,600 m (8,530.18 ft)
Recognition Distance:	25 mm: 331 m (1,085.96 ft) 50 mm: 662 m (2,171.92 ft)
Identification Distance:	25 mm: 166 m (544.62 ft) 50 mm: 331 m (1,085.96 ft)
Magnification:	25 mm: 1.72x 50 mm: 3.45x
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 x 140 mm x 127 mm (11.46" x 5.51" x 5") (L x W x H)

Product Dimensions: 223 mm x 61 mm x 71.4 mm (8.78" x 2.4" x 2.81") (L x W x H)

Gross Weight: 1.31 kg (2.89 lb)

Net Weight: 573 g (1.26 lb)