

Pixfra ARC LRF A650 PRO Thermal Imaging Monocular Specification

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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):	≤20 mK@f/1.0, 25 °C
Focal Length:	50 mm
Aperture:	F1.0
Field of View	H: 8.7°; V: 7°/H: 15.4 m; V: 12.3 m (@100 m)
Focus Control	Manual
Close Focus Distance	2 m (6.56 ft)
Detection Distance:	2,600 m (8,530.18 ft)
Recognition Distance:	1,600 m (5,249.34ft)
Identification Distance:	1,000 m (3,280.84 ft)
Magnification:	3.37×
Frame Rate:	50 Hz

Display

Screen:	1440 × 1080, OLED
Color Palettes:	6 (white hot/black hot/iron red/alarm/emerald/amber)
Video Compression:	H.264
Diopter:	–3 D to +5 D
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
Storage:	Built-in EMMC (32 GB)

Laser Range Finder

Max. Distance:	1,000 m (3,280.84 ft)
Min. Distance:	10 m (32.81 ft)
Accuracy:	±1 m (3.28 ft)
Safety:	Class 1
Wavelength:	905 nm

Power

Battery Type:	Replaceable 18650 battery
Battery Life:	6 h @ 25 °C (Wi-Fi off, LRF 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:	228 mm × 120 mm × 187 mm (8.98" × 4.72" × 7.36") (L × W × H)
Product Dimensions:	186 mm × 59 mm × 82 mm (7.32" × 2.32" × 3.23") (L × W × H)
Gross Weight:	≤1.6 kg (3.53 lb)



Net Weight:

≤430 g (0.95 lb) (battery excluded)