

# Pixfra ARC LRF A635 PRO Thermal Imaging Monocular Specification

## Pixfra ARC LRF A635 PRO

### 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:            | 35 mm  |
| Aperture:                | F1.0   |
| Field of View:           | H: 12.5°; V: 10°/H: 21.9 m; V: 17.6 m (@100 m) |
| Focus Control:           | Manual   |
| Close Focus Distance:    | 2 m (6.56 ft)                                  |
| Detection Distance:      | 1,800 m (4,265.09 ft)                          |
| Recognition Distance:    | 1,100 m (2,624.67 ft)                          |
| Identification Distance: | 700 m (1,640.42 ft)                            |
| Magnification:           | 2.36×  |
| 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:    | 172 mm × 53 mm × 78 mm (6.77" × 2.09" × 3.07") (L × W × H)   |
| Gross Weight:          | ≤1.6 kg (3.53 lb)  |



Net Weight:

≤375 g (0.83 lb) (battery excluded)