

# Augurer Series User Manual

Thermal Imaging Monocular



AU6-25/35LRF

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## 1. Product Overview

1. The AU6-25/35LRF is a handheld thermal imaging monocular designed for observation and ranging in low-light and adverse weather conditions.
2. It utilizes an infrared optical system to capture the infrared radiation emitted by targets. The radiation is filtered and converted into electrical signals by an infrared detector array.
3. These signals are then digitized and processed to correct the initial infrared image, eliminate dead pixels, control brightness and contrast, apply pseudo-color mapping, and overlay interfaces and reticles. The processed image is displayed on an OLED screen, allowing the operator to observe the target through a 14x eyepiece.

## 2. Product Components



1. Device Indicator	2. Objective Lens	3. Rangefinder Module
4. Power Button	5. Menu Button	6. Eyepiece Focus Cover
7. Eyepiece Lens	8. Data Port Cover	9. Lens Cap
10. Up Navigation Button	11. Down Navigation Button	12. Battery Compartment Cover

## 3. Package Contents

- ▶ AU6-25/35LRF Thermal Imaging Monocular
- ▶ 18650 Battery
- ▶ Anti-Slip Wrist Strap
- ▶ Type-C Data Cable
- ▶ 5V/2A Adapter
- ▶ User Manual

## 4. Operation Instructions

### 4.1. Warnings

- (1) Do not point the device at intense radiation sources such as the sun, CO<sub>2</sub> lasers, or welding equipment.
- (2) Allow at least 20 seconds between power cycles.
- (3) The device combines precision optics and electrostatic-sensitive electronics. Avoid dropping, striking, or vibrating the device to prevent damage.
- (4) Do not disassemble the device. Contact the manufacturer for repairs to avoid voiding the warranty.
- (5) Remove the battery during storage or transportation and store the device in a protective case.
- (6) Replace the battery when it is low to avoid over-discharging.
- (7) Using the device outside the specified environmental conditions may cause damage.

## 4.2. Notes

- (1) Clean non-optical surfaces with a soft, dry cloth. Avoid chemical solvents.
- (2) Clean the infrared lens only when visibly dirty. Use a dedicated lens cloth to avoid damaging the anti-reflective coating.
- (3) Turn off the device when not in use to extend its lifespan.

## 5. Button Functions



### Power Button

- (1) Press and hold for 3 seconds to power on/off.
- (2) Press and hold for 1-3 seconds to enter sleep mode. Short press to wake from sleep mode.
- (3) Short press to refresh in observation mode.

### Up Navigation Button

- (1) Press briefly to navigate up or switch display modes.
- (2) Press and hold for 1.5-3 seconds to take a photo; hold for over 3 seconds to start/stop video recording.

### Menu Button

- (1) Press briefly to access the menu. Use the navigation buttons to move through options.
- (2) Press and hold to return to the previous menu level.

### Down Navigation Button

- (1) Press briefly to navigate down or switch magnification (1x, 2x, 4x, 8x).
- (2) Press and hold to enable/disable the rangefinder.

## 6. Menu Functions

Icon	Menu	Description
	Mode Selection	<p>White Hot, High Contrast, Black Hot, Low Light, Fusion. Default: White Hot.</p>  <p>White Hot    High Contrast    Black Hot    Low Light    Fusion</p>
	Video Output	Enable/disable CVBS video output.
	WiFi	<p>Turn on the WiFi function in the device menu, then enable WiFi on your smartphone and open the dedicated app. Locate the device's WiFi MAC address (e.g., "*-*-*") and connect by entering the password "12345678".</p> <p>Once the device and smartphone are connected via WiFi, you can observe real-time images captured by the device.</p>
	Rangefinder Unit	Meters/Yards.
	Rangefinder Settings	On/Off, Set timeout (5, 10, 20 minutes).
	Screen Brightness	Adjust brightness (10 levels).
	Brightness	Press the menu button to access the contrast menu, which offers 10 options. Selecting any option will adjust the imaging brightness accordingly.
	Contrast	Adjust contrast (10 levels).
	Image Detail Enhancement	Press the menu button to access the image detail enhancement option. The higher the value, the more details are enhanced.
	Date/Time	Select the "Date/Time" menu, briefly press the menu button to enter sub-options, use the menu button to navigate, and the up/down buttons to adjust values. Press and hold the menu button to save and exit after adjustments.
	Language Settings	Press the menu button to access the language settings menu. Use the up/down buttons to select the desired language, then briefly press the menu button to confirm.

	Audio Recording	Select "Audio Recording" and press the menu button to open the sub-menu. Select "On" or "Off" to enable or disable audio recording during video capture.
	Format	Enter the format sub-menu, briefly press the menu button to select "Confirm" or "Cancel". Please proceed with caution! Data cannot be recovered after deletion!
	Auto Power Off	Options: 3 minutes, 5 minutes, Off (default). After powering on, you can choose 3 or 5 minutes for auto power-off.
	Default Settings	Select "Default Settings" and press the menu button to open the sub-menu. Select "Confirm" or "Cancel" to restore default settings. Please proceed with caution as this will reset all settings to factory defaults.
	Pixel Fix	Turn on the device and confirm bad pixel correction in the function settings. If correction is needed, cover the lens cap and follow the prompts to repair bad pixels. Save after correction. Use the navigation buttons to move the cursor, the power button to switch options, and briefly press the menu button to save.
	Image Correction	Enter the image calibration menu. If calibration is required, select "Confirm", cover the lens cap, and briefly press the menu button to calibrate background image uniformity. Calibration is automatically saved upon completion.
	Version	Select "Version" .

## 7. APP Connection

Download the dedicated app on Android/iOS.



Download APP by Scanning the QR code according to the mobile phone system.



Download the APP



Enable WiFi on both the device and the phone.



Connect to the device's WiFi network  
(default password: **12345678**)



Enter APP

## 8. Specifications



### AU6-25/35LRF

Sensor	
Type	Uncooled Vanadium Oxide (VOx)
Resolution	640x512
Frame Rate	50 Hz
Pixel Size	12 $\mu$ m
NETD	$\leq$ 18mk
Optics	
Objective Lens	25/35mm/F1.0
Base Magnification	1.4X/2X
Digital Zoom	1x / 2 x/ 4 x/ 8x
Eye Relief	30mm
Diopter Adjustment	+5/-5 D
Focus Distance	5m - $\infty$
Field of View	17.5°/13.1°/12.5°/9.4°
Detection Range	1250m/1750m(Target Size: 1.7m x 0.5m)

Display	
Color Modes	White Hot, High Contrast, Black Hot, Low Light, Fusion
Type/Resolution	0.39 inch / OLED / 1024X768
Power	
Voltage	3-4.2 V
Battery	18650 Li-ion, 3500mAh
External Power	5V (USB)
Runtime	5 hours
Waterproof Rating	IP66
Operating Temperature	-20°C~+50°C
Dimensions	168.5x46.5x82.9mm/176x46.5x82.9mm
Weight	436g/430g
Recording	
Video/Photo Resolution	1024x768
Video/Photo Format	.mp4 / .jpg
Storage	Built-in 32GB memory card
Wireless	
Frequency	2.4GHz
Standard	802.11 b/g
WiFi Range	15m
Rangefinder	
Wavelength	905nm
Maximum Range	1000m
Accuracy	+/-1m

## 9. Maintenance and Care

- (1) Turn off the device when not in use to extend its lifespan.
- (2) Avoid touching the lens. Clean only when necessary using a dedicated lens cloth.
- (3) Remove the battery during storage or transportation.
- (4) Store the device in a cool, dry environment when not in use.
- (5) Clean the exterior with a soft, dry cloth. Avoid chemical solvents.
- (6) The thermal imaging monocular lens should only be cleaned when visibly dirty. Avoid touching the lens surface, as the acidic substances left by fingerprints can damage the coating and lens surface. Use only a dedicated lens cloth for cleaning.
- (7) Perform a power-on check and calibration every six months if the device is stored for long periods.







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