

Levenhuk Fatum Thermo Vision Monoculars

The Levenhuk Fatum series offers handheld thermal imaging monoculars. They are designed to detect objects emitting invisible infrared radiation. Thermal vision devices have a distinct advantage over night vision equipment. They do not require any visible light to operate – you can observe everything around you and stay invisible. Thermo vision monoculars have multiple color palettes to highlight the target.



The series follows the design of traditional optical equipment. These easy-to-operate infrared thermal imaging monoculars have a wide range of application scenarios. Thermal monoculars have clear imaging and comfortable observation making them suitable for medium distance and short-distance observations. The low weight of the monocular makes it a perfect option for outdoor trips.



Levenhuk Fatum Z100 Thermo Vision Monocular Levenhuk Fatum Z250 Thermo Vision Monocular

- Boot up in 1-2 seconds and ready to use
- High-sensitivity self-developed infrared detector to accurately detect targets
- Built-in laser indicator to locate the target easily
- 1280x960 High Resolution LCOS Display Screen to provide a comfortable observation
- PIP mode to Highlight Target Clearly
- Connect App via WIFI to share anytime
- Support 8 hours super long operation time
- IP66 Encapsulation, Rugged and Durable

Levenhuk Fatum Z400 Thermo Vision Monocular

- New self-developed infrared metal detector with high sensitivity
- PureIR adaptive filtering algorithm for sharp images in complex environments
- Built-in laser indicator to locate the targets up to 200m
- 0.4-inch 1280x960 display for comfortable observation
- Differential buttons for easy operation in total darkness
- The connected app via WiFi for remote control, live image and video transmission

Specifications

	Levenhuk Fatum Z100	Levenhuk Fatum Z250	Levenhuk Fatum Z400
Infrared Detector			
Detector type	VOx		
Detector resolution and pitch	256 × 192, 12 μm	400 × 300, 12 μm	400 × 300, 17 μm
Spectral range	8 to 14 μm		
NETD	≤50mk @ F1 25°C		≤30mk @ F1 25°C
Lens			
Focal length	10 mm; F1.0	25 mm; F1.1	
Focus	Electric	Manual	
Field of view	17.1°×13.0°	10.4°×7.9°	15.4° × 11.6°
Frame Rate			
Output frame frequency	50 Hz		
Zoom			
Optical zoom	1.5x	2.4x	1.7x
Digital zoom	1x, 2x	1x, 2x and 4x	1x—4x
Visual effect	It's like viewing at a 22'' screen at 1 meter		
Power			
Battery type	Single, replaceable 18650 battery		2 built-in 18650 batteries (6000mAh)
Battery life	≥ 8 hours	≥ 7 hours	≥ 5 hours
Interface			
USB	Type C (USB 2.0 standard), supporting analog video and power supply		Type C (USB 2.0 standard), supporting power supply and data access
Video interface	USB Type C		micro HDMI
External expansion	External Display and Bluetooth remote control		External Display
Mechanical interface	UNC ¼"-20 (Tripod mounting), Picatinny		
Display			
Display type	0.4" FLCOS		
Resolution	1280 × 960		
Eyepiece	Monocular, exit pupil distance≥12 mm, diopter adjustment: -4 to +2		Monocular, exit pupil distance≥10 mm, diopter adjustment: -4 to +2
Eyepiece zoom	13.8x		
Video output	Analog video		Digital video
Button			
Button functions	Power / Brightness / Zoom / Color palette		Power / Up / Menu / Down / Photo / Video
Functions			
Smooth zoom	/	/	Available
Screen brightness adjustment	5 levels		10 levels
Detector brightness adjustment	/	5 levels	10 levels
Detector contrast adjustment	/	5 levels	10 levels
Image enhancement	Supported only when there is no laser indicator		Available
Scene modes	Enhanced, Highlight and Natural		
Ultra power saving mode	Turn WIFI off or reduce the screen brightness level		Available
WIFI	Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters		

Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot	Black Hot, White Hot, Adjustable Red Hot, Iron Red, Blue Hot, Green Hot
Hot spot tracking	Available	
Working indicator	On / Off	
Compensation modes	Automatic, shutter and scene compensation	
Automatic shutdown	Closed, 15, 30 or 60 mins	
Automatic sleep	Closed, 5, 10, or 15 mins	
Language settings	Chinese or English	Chinese / English / Russian / German / French
Laser indicating	Supported only when a laser indicator is available, up to 200 m	Up to 200m, Red/Yellow/Green
System		
Time Setting	/	Available
Watermark settings	/	Closed, setting of date or date and location
PIP	Upper left, Upper middle, Upper right, Closed	
Start up	1 s	2 s