



ELF-MU

MULTI-FUNCTIONAL THERMAL MONOCULAR

The ELF-MU four-in-one multifunctional infrared monocular thermal imager is fitted with a high-performance infrared detector, featuring a lightweight and compact design and long battery life. It supports four operational modes: handheld, head-mounted, thermal aiming and forward clip-on.

KEY FEATURES



FOUR-IN-ONE DEVICE

It supports four modes: scope, clip-on, helmet, and handheld



SUFFICIENT OPERATION TIME

Powered by a single 18650 battery, it supports up to 10 hours of continuous operation.



LIGHTWEIGHT BODY

The whole unit weighs 270 g only, suitable for long-time handheld or head-mounted use.



HIGH IMPACT RESISTANCE

It can withstand impact up to 1000G.

1 HANDHOLD



2 HELMET



3 SCOPE



4 CLIP-ON



TECHNICAL DATA

Thermal Channel		Display	
Sensor Resolution	640×512 pixels, 12μm	Screen Type	OLED
Frame Rate	50Hz	Resolution	1024×768
Focal Length	26.7mm / F1.0	Eyepiece	
FOV(H×V)	16.3°×12.3°	Exit Pupil Distance	25mm
System Magnification	1×	Diopter	-5 ~ +2D
Advanced Functions		Physical	
Operating Mode	Clip-On,Thermal Sight Head-Mounted,Hand Held	Dimensions (W × H × D)	113mm×70mm×48mm
PIP	✓	Weight	≤ 270g
Photo Taking/Video Recording	✓	Power Supply	
Standby Mode	✓	Battery Type	1 × 18650 lithium batteries
Clean Mode	✓	Battery life	> 10h
APP	✓	Environmental	
Remote control	✓	Immersion	IP67

ACCESSORIES

1

HALMET BRACKET



2

HELMET MOUNTING CLAMP



2

DOVETAIL SHOE



4

HELMET MOUNT (OPTIONAL)



Infrade Range Performance Human

Detection

1890m

Recognition

630m

Identification

320m

Infrade Range Performance Vechicle

Detection

2560m

Recognition

850m

Identification

430m

The calculation of these indicators is based on the target detectability division method defined in the Johnson criterion. The humanoid target is defined as 1.7m high and 0.5m wide, and the vehicle target as 2.3m by 2.3m. The calculations assume standard environmental conditions and are based on the sensor specifications listed in the product. Actual performance may vary due to environmental factors, atmospheric conditions, or operational settings.



BLACK HOT



GREEN HOT



IRON



OUTLINE



RED HOT



WHITE HOT