

Thermal Monocular



Features:

- Day/night passive operation
- Compact uncooled for field use
- Microbolometer FPA

Applications:

- Day/night scouting
- Border & perimeter patrol
- Hunting and theft
- Forest fire



Thermal Monocular

Specifications

Detector Data			
Detector Type	Uncooled Microbolometer		
Resolution	640×480		
Pixel pitch	17µm		
NETD	<60mk		
Spectral range	8~14µm		
Lens Data			
Focus length	19mm (F1)	25mm (F1)	35mm (F1)
FOV	32.8° × 24.6°	24.9° × 18.7°	17.8° × 13.4°
Focus	Manual lens		
Image Performance			
NUC	With shutter		
Start-up time	<4s		
Noise reduction	Digital filtering		
Gain adjustment	Manual		
E-Zoom	2x, 4x		
Video Output			
Video output	NTSC/PAL		
Frame rate	50Hz		
Polarity	Black hot/White hot		
Viewfinder	OLED 800×600		
Micro-display adjustment	Brightness		
Eyepiece			
Eye Relief	25mm		
Pupil diameter	8mm		
Power Supply			
Working voltage range	4V~7.2V		
	External power: 8~15VDC		
Battery	2 × CR123		
Operation time	>4hrs		
Environmental Data			
Operation temperature	-35°C ~ +60°C		
Storage temperature	-40°C ~ +70°C		
Encapsulation	IP67		
Durability	1 meter drop		
Physical Data			
	19mm Lens	25mm Lens	35mm Lens
Weight	400g	420g	450g
Size (mm)	74.5×54×103	74.5×54×109	74.5×54×119
Distance for Human			
	19mm Lens	25mm Lens	35mm Lens
Detection	800m	1000m	1140m
Recognition	260m	300m	380m



Note: Range Data 50% probability of detection and recognition on a clear day, other factors apply

How to Order

HMTI-6103E-35N

Model No.

Lens

Video Output

19mm

N: NTSC

25mm

P: PAL

35mm