

**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**

<b>Detector Data</b>			
Detector Type	Uncooled Microbolometer		
Resolution	384×288		
Pixel pitch	17µm		
NETD	<60mk		
Spectral range	8~14µm		
<b>Lens Data</b>			
Focus length	19mm (F/1)	25mm (F/1)	35mm (F/1)
FOV	19.7° × 14.8°	15.0° × 11.2°	10.7° × 8.0°
Focus	Manual lens		
<b>Image Performance</b>			
NUC	With shutter		
Start-up time	<4s		
Noise reduction	Digital filtering		
Gain adjustment	Manual		
E-Zoom	2x		
<b>Video Output</b>			
Video output	NTSC/PAL		
Frame rate	50Hz		
Polarity	Black hot/White hot		
Viewfinder	OLED 800×600		
Micro-display adjustment	Brightness		
<b>Eyepiece</b>			
Eye Relief	25mm		
Pupil diameter	8mm		
<b>Power Supply</b>			
Working voltage range	4V~7.2V		
	External power: 8~15VDC		
Battery	2 × CR123		
Operation time	> 4hrs		
<b>Environmental Data</b>			
Operation temperature	-35°C ~ +60°C		
Storage temperature	-40°C ~ +70°C		
Encapsulation	IP67		
Durability	1 meter drop		
<b>Physical Data</b>			
	19mm Lens	25mm Lens	35mm Lens
Weight	400g	420g	450g
Size (mm)	74.5×54×103	74.5×54×109	74.5×54×119
<b>Distance for Human</b>			
	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-3103E-35N**

