

# MVT40



## Parameters

### Features

- 360° heading rotation of the gimbal.
- Halation suppression.
- 40x lossless zoom.
- 640\*512 resolution infrared.
- 4K video.
- AI detects vehicles and people.
- Target Recognition Tracking.

### Visible Light

Sensors	1/2.3 Super Starlight
Effective Pixel	Max. 893 W
Camera Lens	20x Optical Zoom, 3.9 mm (F=wide)-46.8 mm (Tele), F 1.8~F 2.0; Super Resolution Zoom: 4K / 30x Zoom, 1080P / 40x Zoom
Digital Zoom	12X
Video Resolution	4K or 1080P
Low Illumination	Color: 0.75 lx (F1.8, AGC on, 1/30 s)
Shutter Speed	1/1 second to 1/10,000 seconds, 22 steps
Min. Object Distance	10 mm (Wide end) to 1500 mm (Far end) (Default: 300 mm)
Wide Dynamic	Support
Visual Enhancement	Support
Noise Reduction	Support
Electronically Transmitted Fog Support	
Noise Reduction	Support
Aperture Adjustment	Support
Color Gain Adjustment	Support
Night Black And White Mode	Support
White Balance	Support

### Visible light recognition performance

- Typical multi-target detection for vehicles, people, etc.
- Detect at least 10 targets.
- Capable of memory tracking function and switching tracking.
- Contrast is not less than 5%.
- Target size is not less than 5\*5 pixels.
- Vehicle detection probability ≥ 85%, false alarm rate ≤ 10%.

### Overall Parameter

Weights	1 kg
Operating Voltage	12V
Video Transmission	Network Output, 1080P 30
Intelligent Identification	Support People And Car Recognition
Tracking Function	Support
Operating Temperature	-20~60°C
Working Mode	Photographing And Videotaping
Stockpile	SD Card 32G / Supports Up To 128G
Photo Format	JPG
Video Format	MP4
On-screen Pointing	Support
Bootstrap Model	Support
	(Aircraft Targeting And Following Function)

### Gimbal

Installation	Quick Release
Gimbal model	Lock / Follow / Center / Track
Angular Jitter	±0.02°
Turning Range	Heading: ±360°; Pitching: +40°~-110°

### Thermal Imaging Camera

Camera Lens	19 mm
Operating System	Uncooled Long Wave (8 μm~14 μm)
Detector Pixels	640*512
Pixel Size	12 μm
NETD	≤50mK@F.0@25°C

### Tracking Performance

Deviation Pixel Update Rate	30 Hz
Deviation Pixel Output Delay	<30 ms
Min. Target Contrast	5%
Min. Target Size	16*16 Pixels
Max. Target Size	256*256 Pixels
Tracking Speed	Greater Than 32 Pixels / Frame
Target Recall Time	100 Frames

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