

<b>Model No.</b>	<b>A40T pro</b>
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PICS



### Hardware Parameter

<b>Working voltage</b>	16V
<b>Input voltage</b>	4S ~ 6S
<b>Output voltage</b>	5V (connect with PWM)
<b>Dynamic current</b>	600~1300mA @ 16V
<b>Working environment temp.</b>	-20℃ ~ +60℃
<b>Output</b>	micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps)
<b>Local-storage</b>	SD card (Up to 128G,class 10, FAT32 or ex FAT format)
<b>Photo storage format</b>	JPEG(1920*1080)
<b>Video storage format</b>	MP4 (1080P 30fps)
<b>Car reading online</b>	HTTP read pictures in TF card
<b>Control method</b>	PWM / TTL / S.BUS/ TCP(IP output version)/UDP(IP output version)
<b>Geotagging</b>	Support, display time and GPS coordinate in picture exif

### Gimbal spec

<b>Mechanical Range</b>	Pitch/Tilt: -60°~130°, Roll: ±40°, Yaw/Pan: ±300° / ±360°*N (IP output version)
<b>Controllable Range</b>	Pitch/Tilt: -45°~125°, Yaw/Pan: ±290° / ±360°*N (IP)
<b>Vibration angle</b>	Pitch/Roll/Yaw: ±0.02°
<b>One-key to center</b>	√

### Camera spec

<b>Imager Sensor</b>	<b>SONY 1/2.8" CMOS</b>
<b>Picture quality</b>	Full HD 1080 (1920*1080)
<b>Effective pixel</b>	2.13MP
<b>Lens optical zoom</b>	40x, f=4.25mm(wide end)~170mm(tele end), F1.6~F4.95
<b>Digital zoom</b>	32x
<b>Min object distance</b>	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
<b>Horizontal viewing angle</b>	66.35°(wide end) ~ 1.9°(tele end)
<b>Sync system</b>	Internal
<b>Min.Illumination</b>	Color(1/30s , 72.0dB): 0.02lux , BW(1/30s , 72.0dB):0.002lux Color DSS(1/1s , 72.0dB): 0.002lux , BW DSS(1/1s , 72.0dB):0.0002lux
<b>S/N ratio</b>	more than 50dB
<b>Exposure control</b>	Auto, Manual, Priority mode(shutter priority & iris priority)
<b>Focusing system</b>	Auto , One Push, Manual
<b>White balance</b>	Auto, Indoor, Outdoor, One Push , Manual
<b>Shutter speed</b>	1/1s to 1/30,000s
<b>Auto ICR</b>	Yes
<b>Image stabilization</b>	Yes
<b>Progressive scan mode</b>	Yes
<b>Backlight compensation</b>	Yes

Defog	Yes
OSD	Yes
<b>IR Thermal Imager Spec</b>	
Focus Length	19mm
Coating Film	DLC
Horizontal FOV	22.9°
Vertical FOV	18.4°
Diagonal FOV	29.0°
Detective Distance (Man: 1.8x0.5m)	792 meters
Recognize Distance (Man: 1.8x0.5m)	198 meters
Verified Distance (Man: 1.8x0.5m)	99 meters
Detective Distance (Car: 4.2x1.8m)	2428 meters
Recognize Distance (Car: 4.2x1.8m)	607 meters
Verified Distance (Car: 4.2x1.8m)	303 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	<b>640*512</b>
Pixel size	<b>12μm</b>
Focusing method	Athermal prime lens
NETD	≤50mK@F.0 @25℃
Color palette	White hot, black hot, pseudo color
Digital zoom	1x ~ 8x
Sync correct time	Yes
<b>EO / IR Camera Object Tracking</b>	
Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames
<b>EO Camera AI Recognition Performance</b>	
Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%
<b>Packing Information</b>	
N.W.	1095g (Viewport version)
Product meas.	134.5*118*197.7mm / 134.5*118*203.4mm (Viewport version)
Accessories	1pc gimbal camera device, screws, copper cylinders, damping balls, damping boards / Hight quality plastic box with foam cushion
G.W.	3277g
Package meas.	360*300*250mm