

<b>Model No.</b>	<b>A10T pro</b>
<b>PICS</b>	

### 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>	700~1500mA @ 16V
<b>Working environment temp.</b>	-20°C ~ +60°C
<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>	JPG(1920*1080)
<b>Video storage format</b>	MP4 (1080P 30fps)
<b>Card reading online</b>	HTTP read pictures
<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>Angle scope of structure design</b>	Pitch/Tilt: -45°~95°, Roll: ±70°, Yaw/Pan: ±300° / ±360°*N (IP output version)
<b>Angle scope of software design</b>	Pitch/Tilt: -40°~90°, Yaw/Pan: ±290° / ±360°*N (IP output version)
<b>Vibration angle</b>	Pitch/Roll/Yaw: ±0.02°
<b>One-key to center</b>	√

### EO Camera Spec

<b>Imager Sensor</b>	1/2.8" SONY CMOS Sensor
<b>Total pixel</b>	5.13MP
<b>Picture quality</b>	Full HD 1080 (1920*1080)
<b>Optical zoom</b>	10x, f = 4.7mm ~ 47mm, F1.7~F3.1
<b>Digital zoom</b>	32x
<b>Angle of View (H)</b>	69.9°(Wide end) ~ 8.7° (Tele end)
<b>Min target distance</b>	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
<b>Min illumination</b>	Color(1/30s, 72.0dB): 0.02 lux , BW(1/30s, 72.0dB): 0.005lux Color DSS(1/1s, 72.0dB): 0.002 lux , BW DSS(1/1s, 72.0dB): 0.0005 lux
<b>White balance</b>	Auto / One Push / Manual / Indoor / Outdoor
<b>Shutter speed</b>	1/1sec ~ 1/100,000 sec
<b>Focus</b>	Auto / One Push / Manual
<b>Iris</b>	0 ~ 20 steps
<b>Exposure</b>	Auto / Manual / Priority Mode (Shutter priority & aperture priority)
<b>Sync system</b>	Progressive Scan
<b>Sync. System Internal</b>	Internal
<b>Backlight compensation</b>	Yes
<b>Auto ICR</b>	Yes
<b>Image stabilization</b>	Yes
<b>Defog</b>	Yes

**IR Thermal Imager Spec**

<b>Focus Length</b>	19mm
<b>Coating Film</b>	DLC
<b>Horizontal FOV</b>	22.9°
<b>Vertical FOV</b>	18.4°
<b>Diagonal FOV</b>	29.0°
<b>Detective Distance (Man: 1.8x0.5m)</b>	792 meters
<b>Recognize Distance (Man: 1.8x0.5m)</b>	198 meters
<b>Verified Distance (Man: 1.8x0.5m)</b>	99 meters
<b>Detective Distance (Car: 4.2x1.8m)</b>	2428 meters
<b>Recognize Distance (Car: 4.2x1.8m)</b>	607 meters
<b>Verified Distance (Car: 4.2x1.8m)</b>	303 meters
<b>Working mode</b>	Uncooled VOx long wave (8μm~14μm) thermal imager
<b>Detector pixel</b>	<b>640*512</b>
<b>Pixel size</b>	<b>12μm</b>
<b>Focusing method</b>	Athermal prime lens
<b>NETD</b>	≤50mK@F.0 @25°C
<b>Color palette</b>	White, iron red, pseudo color
<b>Digital zoom</b>	1x ~ 8x
<b>Sync correct time</b>	Yes
<b>Radiometric function</b>	Optional

**EO / IR Camera Object Tracking**

<b>Update rate of deviation pixel</b>	30Hz
<b>Output delay of deviation pixel</b>	<30ms
<b>Minimum object contrast</b>	5%
<b>SNR</b>	4
<b>Minimum object size</b>	16*16 pixel
<b>Maximum object size</b>	256*256 pixel
<b>Tracking speed</b>	±48 pixel/frame
<b>Object memory time</b>	100 frames

**EO Camera AI Performance**

<b>Targets type</b>	Car and human
<b>Simultaneous detection quantity</b>	≥ 10 targets
<b>Min contrast ratio</b>	5%
<b>Min target size</b>	5×5 pixel
<b>Car detection rate</b>	≥85%
<b>False alarm rate</b>	≤10%

**Packing Information**

<b>N.W.</b>	730g(Viewport version with Viewport)
<b>Product meas.</b>	121.5*96*158.1mm / 121.5*96*163.8mm(Viewport Version)
<b>Accessories</b>	1pc gimbal camera device, screws, USB to TTL cable / High quality box with foam cushion
<b>G.W.</b>	1800g
<b>Package meas.</b>	300*250*200mm