

Model No.	A40TR Pro
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PICS



Hardware Parameter

Working voltage	16V
Input voltage	4S ~ 6S
Output voltage	5V (connect with PWM)
Dynamic current	700~2000mA @ 16V
Working environment temp.	-20°C ~ +60°C
Output	micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps)
Local-storage	TF card (Up to 128G, class 10, FAT32 or ex FAT format)
Photo storage format	JPG(1920*1080)
Video storage format	MP4 (1080P 30fps)
Network Read Card	HTTP Read TF Card Online
Control method	PWM / TTL / S.BUS / TCP(IP output) / UDP(IP output)
Geotagging	Support, display time and GPS coordinate in picture exif

Gimbal Spec

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

EO Camera spec

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

IR Thermal Imager Spec

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	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F.0 @25℃
Color palette	White, iron red, pseudo color
Digital zoom	1x ~ 8x
Sync correct time	Yes

Camera Object Tracking

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
AI auto-zoom	Yes

IR Laser Rangefinder

Range	for car ≥ 3000m; for human ≥ 2000m
Minimum range	15m
Frequency	1~10Hz
Accuracy	±1m
Light Beam	1535±5nm pulse laser
Divergent Angle	~0.6 mrad
Location Resolving	Latitude and longitude of target
Ranefinder	Target distance measuring

EO Camera AI Performance

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%

Packing Information

N.W.	1135g(Viewport Version)
Product meas.	134.2*125*208.6mm / 134.2*125*214.3mm(Viewport Version)
Accessories	1pc gimbal camera device, screws, copper cylinders, damping balls, damping boards, 1pc USB to TTL cable / Hight quality plastic box with foam cushion
G.W.	3317g

Package meas.

350*300*250mm
