

Thermal Dual-light Smart Network PTZ Camera

- Resolution: 640*512
- Horizontal FOV: 18°–110° Optional
- Video Output: ONVIF / RTSP / DHCP
- AI: Person / Vehicle / Animal Detection & Ranging



Thermal Dual-light Smart Network PTZ Camera



TEK-S Series Dual-light Vehicle & Marine PTZ

Overview:

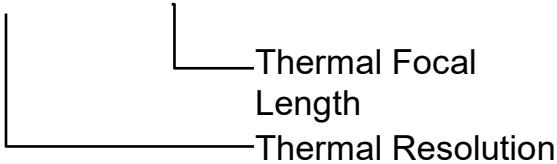
The TEK-S dual-light PTZ is a dual-spectrum observation smart network camera with one visible-light channel and one thermal channel. Visible light monitors targets by day; thermal detects and recognizes targets in total darkness. Built-in dual-light person/vehicle/animal AI suits special-vehicle command, unmanned vehicles, robot dogs, marine vessels, traffic police, border and railway surveillance.

Product Name:

Dual-light Vehicle & Marine PTZ

Order Model:

TEK-S640-9.1



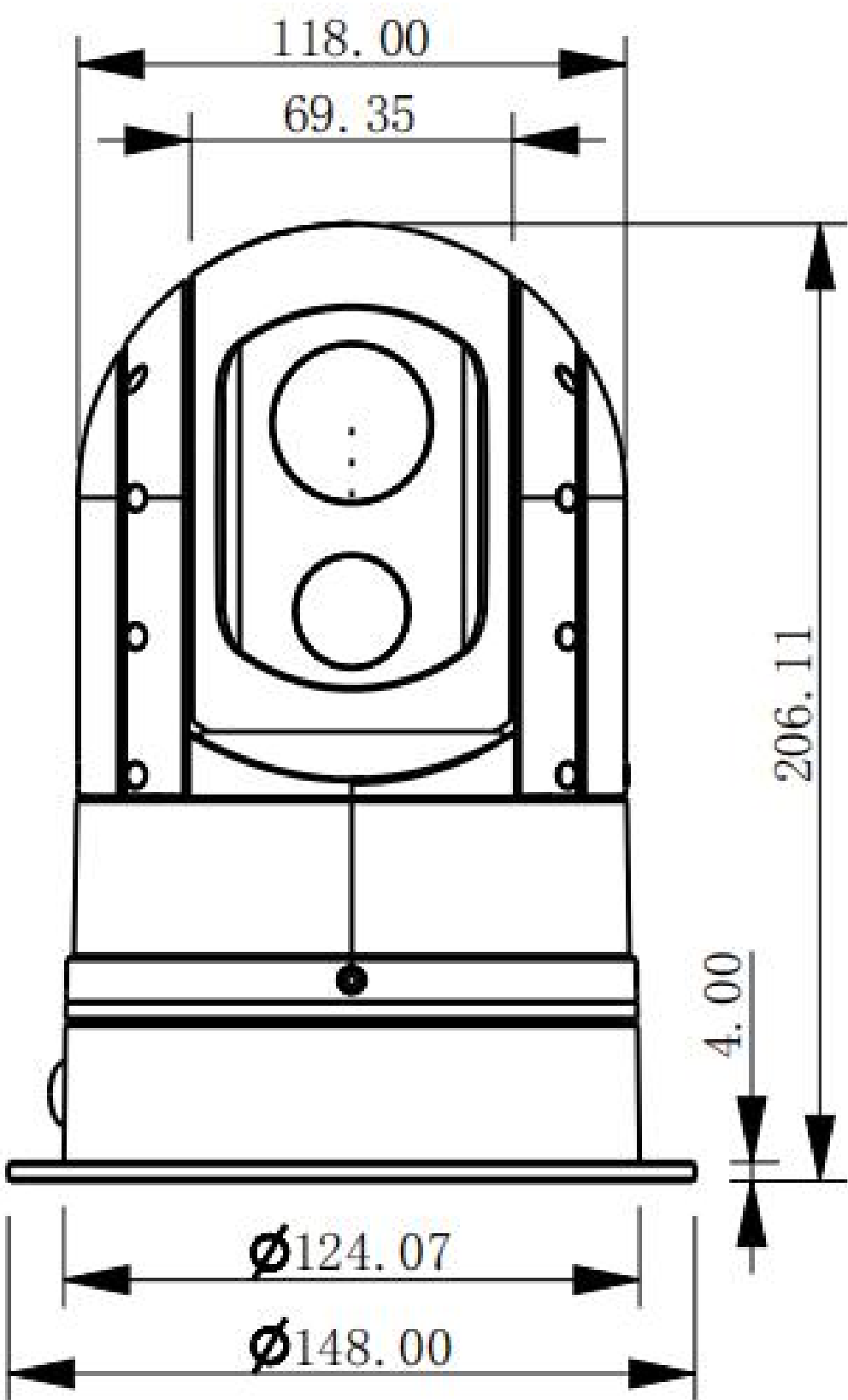
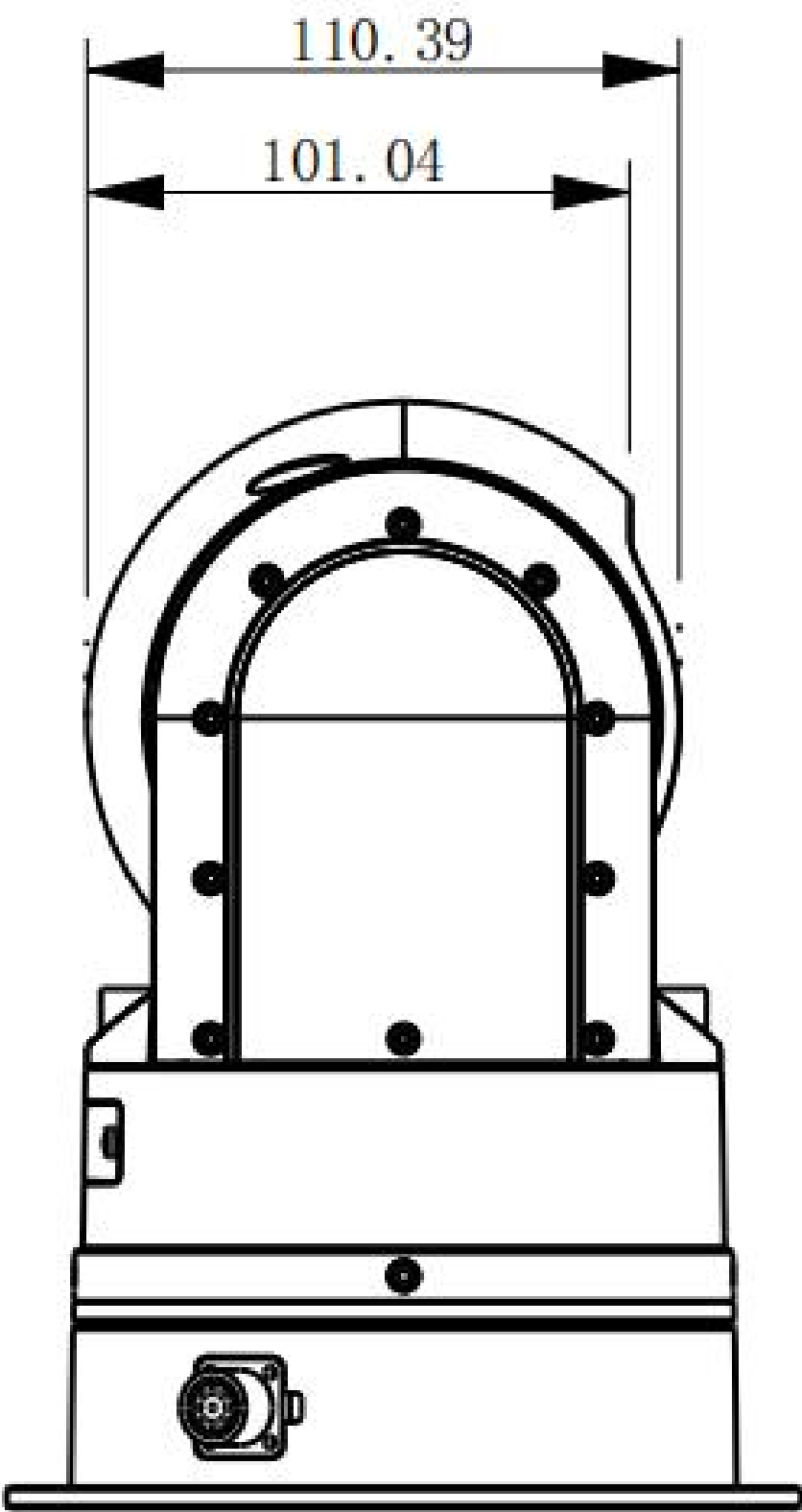
Applications:

- Special command vehicles
- Border defense, railway, traffic police
- Unmanned vehicles
- Robot dogs
- Unmanned boats
- Marine vessel monitoring

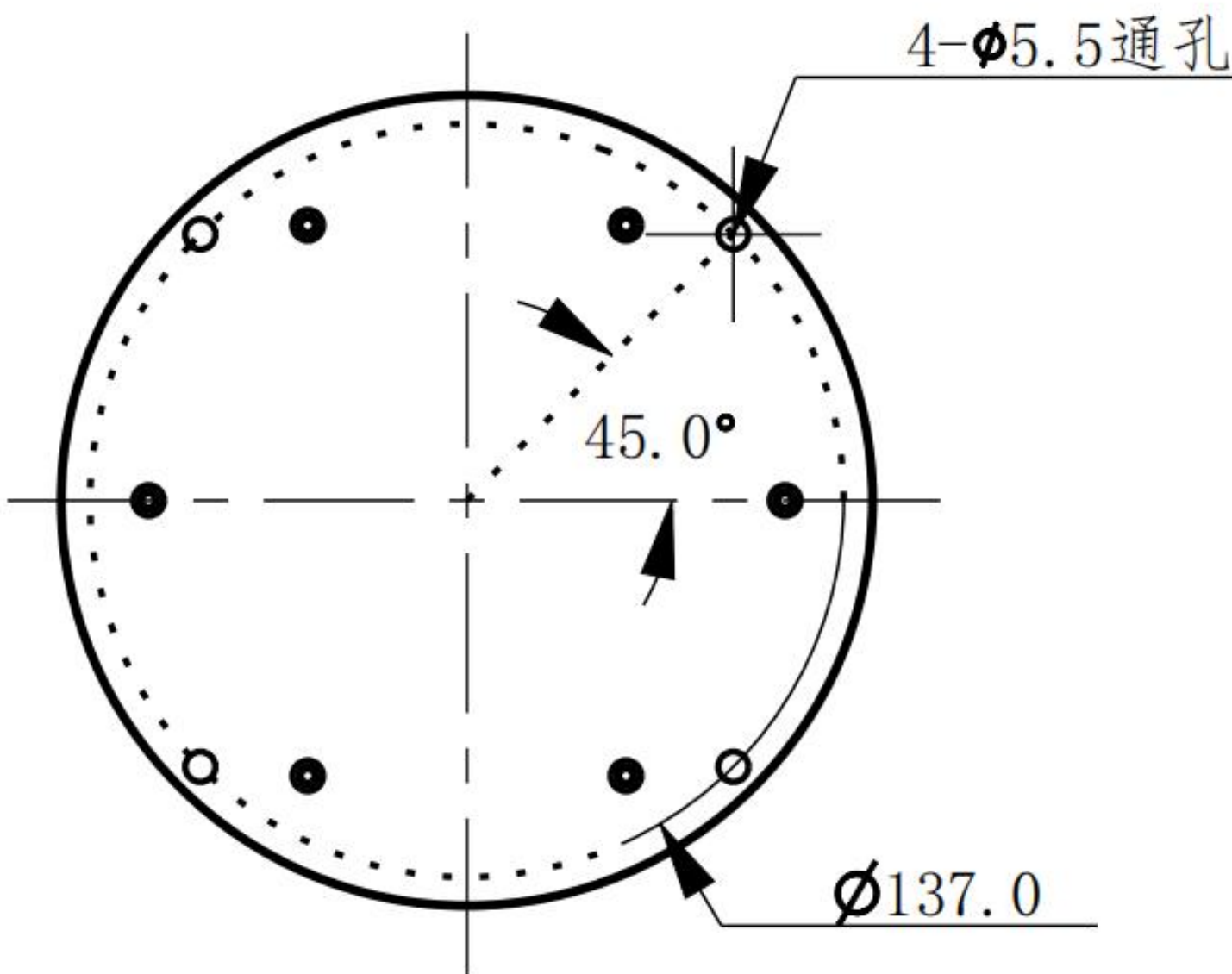
Features:

- Integrated structure; protection up to IP66.
- Compact and lightweight; PTZ head under 2.5 kg.
- HD video: 2 MP module, 10× optical zoom, up to 1080P.
- 640*512 thermal, 9.1 / 13 / 19mm (9.1mm default).
- 360° continuous pan; cruise and preset support.
- Person / Vehicle / Animal detection; custom alarm regions.
- ONVIF / RTSP output protocol.
- Aluminum mounting flange.
- 9–36V wide-voltage module.
- Black or white housing optional.

Product Dimensions:



Mounting Plate:



Cable Harness:

Specifications:

System / Protocol		LINUX embedded / ONVIF, RTSP, DHCP
Setup & Viewing	Debug, Config	Ethernet / Wi-Fi
	WEB	Supported (live view) / independent visible & thermal streams
PTZ	Pan Range	360° continuous
	Tilt Range	-30° to 90°
	PTZ Speed	Pan 100°/s, Tilt 60°/s
	Presets	Up to 256 presets
	Cruise	Multiple cruise tracks
Visible Light	Sensor	1/2.8" high-performance low-light CMOS
	Resolution	1080P (1920*1080, 25/30fps)
	Optical Zoom	10×
	Focal / Aperture	F = 4.9~47mm / F2.36~F2.4
	FOV	Wide:67.6°×54.8°Tele:7.15°×5.8°
	Illumination	F1.6(W), 50IRE: 0.05lx (1/30s) IR-CUT on; 0.005lx (1/4s) IR-CUT off
	WDR	Digital WDR
	Day/Night	ICR filter switch
Thermal	Resolution	640*512, 12μm, 9mm fixed (13/19mm optional)
	FOV	(H)45°×(V)37° (9.1mm) / 34°*27°(13mm) / 23°*18°(19mm)
	Wavelength	8um-14um
	Image Mode	White-hot, Black-hot, Iron-red, Warm-hot, Rainbow, Lava, Red-hot
Compression		H.264/H.265
Bitrate		512Kbps-4Mbps
Streams		Dual streams: main (1080P/960P/720P), sub (D1/VGA/CIF)
Recording		MP4
AI	Performance Targets /	3 TOPS, >25fps; Person/Vehicle/Animal (dual-light sync)
	Ranging	Person/Vehicle/Animal ranging in thermal (90% within 40m; self-calibrate by mount height)
	Smart Alarm	Custom alarm regions; cross-region linkage
	Max Detection Range	Person 80m / Vehicle 200m / Animal 50m
	Alarm Output	Supported (websocket/http) / local alarm
	Android APP	Dedicated APP over Wi-Fi for view & setup
IP Rating / Temp / Mount		IP66 / -20~60°C / aluminum flange
Power / Size / Weight		12V / Φ118*221.1mm / <2.5kg
Cable		RS485, RJ45, DC5.5*2.1 power
Optional Accessories		Carry case, tripod disc, tripod (aluminum, 1.5kg, 4-section, max 8kg)