



ZTH-T Range

High Resolution Fixed Thermal Tube Camera



The ZTH-T Thermal camera range has been designed for professional detection and surveillance applications.

The housing is built to IP67 as standard and incorporates a 9Hz or 25Hz high performance thermal module with multiple lens options providing a detection range of up to 1500 metres. The module will provide quality thermal imaging even in complete darkness and adverse weather conditions without any extra lighting.

The housing although compact is extremely robust and is machined from solid aluminium and finished in black hard anodizing resulting in a camera that can be used in the most challenging environments and applications. The unique design allows the housing to be fitted both to a fixed platform or PT head. The ZTH-T range also includes visible cameras and IR modules which are designed to slot together to provide a complete, flexible and professional security solution.

Key Features

- **Robust Construction**
- **Can operate in adverse weather conditions**
- **Wide choice of lens option**
- **9Hz or 25Hz**
- **IP67**
- **Temperature Scale**
- **1500 metre detection (9°)**
- **Can operate in complete darkness**
- **Thermal white hot and black hot control**
- **User definable Temperature related colour palette**
- **Flexible mounting options**

Ordering Information

Thermal Tube Camera

ZTH-T4550P	Thermal Tube 9Hz 50° Lens Fixed Focus
ZTH-T4525P	Thermal Tube 9Hz 25° Lens Fixed Focus
ZTH-T4512P	Thermal Tube 9Hz 12° Lens Fixed Focus
ZTH-T0850P	Thermal Tube 25Hz 50° Lens Fixed Focus

Standard Optical Tube Camera

ZTH-O1036P	Tube camera with Sony module 36X Zoom
ZTH-O4818P	Tube camera with Sony module 18X Zoom





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High Resolution Fixed Thermal Tube Camera



Technical Specification

MODEL	ZTH-T FIXED TUBE CAMERAS
Detector	Amorphous Silicon Microbolometer (Uncooled)
Spectral Response	7 to 14µm
Thermal Sensitivity	< 50mK
Array Format	320 x 240 Pixel
Refresh Rate	9 Hz or 25 Hz (PAL)
Start-up time	- 4 seconds
Contrast / Brightness	Advanced Image Processing
Saturation Temperature	1100°F +/-10% with automatic electronic iris
Focus	1m to co, manual adjustment
FOV Alternatives	50° x 37.5°, 25° x 19° or 12° x 9°
Detection range	up to 235m (50° lens, equiv focal 5.8mm) up to 445m (25° lens, equiv focal 11mm) up to 1000m (12° lens, equiv focal 25mm)
Video Analogue Output	PAL
Output Resolution	768 x 574 pixels for higher-clarity thermal images & zymology overlay
Customizable Absolute Colour	3 OEM selectable colour points are mapped to selectable absolute temperatures
Input voltage	8 to 32 V DC
Input Power ≤	-2 @ 25°C ambient, 12V DC
Power Consumption	5W

MODEL	ZTH-O1036P	ZTH-O4818P
Image Sensor	1/4" IT CCD	1/4" IT CCD
Horizontal Resolution	530 TVL	530 TVL
Minimum Illumination	0.7 Lux colour, 0.07 Lux mono @ F1.4	1.4 Lux colour, 0.01 Lux mono @ F1.6
Horizontal Viewing Angle	2.8 - 48°	1.7 - 57.8°
Effective Elements	752 (H) x 582 (V)	752 (H) x 582 (V)
Zoom	36:1	18:1
Lens	4.1 - 73.8mm	3.4 - 122.4mm
S/N Ratio	>50 dB	>50 dB
Sync System	INT. /L.L	INT. /L.L
Gamma Characteristic	0.45	0.45
White Balance	ATW, AWB, Manual	ATW, AWB, Manual
Backlight Compensation	Yes	Yes

Features and specifications are subject to change for further improvement without any notice

