



Thermal Imaging Surveillance Systems

Aquila PTZ 640-150ZF

High Resolution PTZ Thermal / Visible



Photo is general depiction; actual product will differ slightly.



The Aquila PTZ 640-150ZF is a rugged, low-profile Thermal Imaging Surveillance System

The PTZ employs three cameras:

Camera 1: This sensor is based on the latest Thermal Imaging technology, utilizing a VOx uncooled $17\mu\text{m}$ pitch 640×480 microbolometer, resistant to solar damage. It is fitted to a 25- 150mm continuous zoom lens.

Camera 2: A standard colour Sony block with X36 zoom.

Camera 3: The third channel provides unique situational awareness capabilities over a wide field of view (65°C) thanks to an ultra-sensitive colour day and night camera.

This high-performance, rugged, multi-sensor system is designed to MIL-STD for day and night operations in the harshest weather and environmental conditions, including continuous salt water spray or blowing sand and rain, as well as direct sun light.

Key Features

- Uncooled 640×480 $17\mu\text{m}$ VOx (Vanadium Oxide) Microbolometer
- Motorised continuous zoom lens from 25.3° WFOV (25mm) to 4.15° NFOV (150mm)
- Simultaneous video streams for Thermal (1 channel) and visible (2 channels)
 - Smooth operation
 - 360° continuous rotation at 100° per second
 - RS422 / 485 serial interface
 - Pelco D or Native
 - IP67 sealed waterproof all-weather packaging
 - Colours: Black, Tan, White

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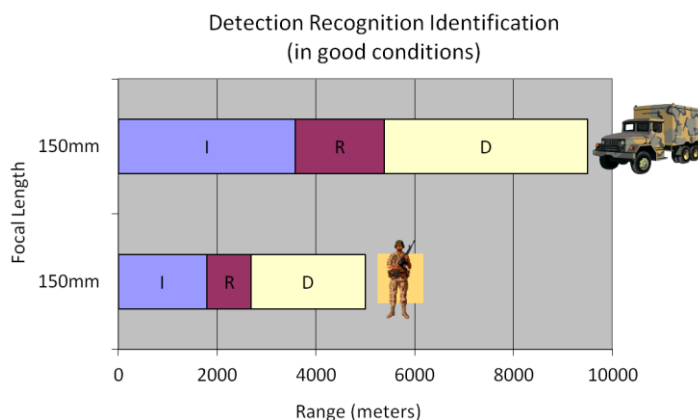
Thermal Imaging – Camera 1	
Microbolometer	Uncooled VOx 640 x 480 17µm
Spectral Response	8 to 14µm
Thermal Sensitivity	NETD typically 50mK @ F/1.0
Format	NTSC / PAL
Lens Focal Length and F/#	25 - 150mm Continuous Zoom F/1.4
FoV	From 25.3° x 19° WFOV (25mm) to 4.15° x 3.0° NFOV (150mm)
Focus	Motorized
Zoom	6.0 x True Optical Continuous Zoom / X2, X3 and X4 digital
AGC	Yes with two Image Contrast Enhancement algorithms

Visible Cameras	Camera 2	Camera 3
	Sony 1000 Series	Situational Awareness WFOV LL Camera
Optical Zoom	36 X	N/A
Digital Zoom	12 X	N/A
Lens Focal Length and F/#	3.4mm to 122.4mm F/1.6 to F/4.5	4mm F/1.2
HFoV	57.8° to 1.7°	65°
Resolution	550 TVL	540 TVL
Dynamic Range	50dB	50dB
Light Sensitivity @ Full Video Rate	1.4 Lux Col, 0.2 Lux Mono	0.02 Lux Col, 0.002 Lux Mono
Auto Focus	Yes	Fixed Focus – Factory Set
Manual Focus	Yes	Fixed Focus – Factory Set
Image Stabilisation	Yes	No

Pan & Tilt System Configuration	
Pan Angle Range	360° Continuous
Pan Speed	0.25° - 100° / sec
Tilt Range	± 95°
Tilt Speed	0.25° - 60° / sec
Repeatability	0.25°
Position, Feedback, Resolution & Readout	0.01°

Environmental & Electrical	
Weight	<12.9Kg
Dimensions	181 (H) x 419 (W) x 237 (D) mm
Housing Material	Cast Aluminium
Voltage / Power	12 – 30 vdc / 12W Nominal
Temperature	-40° C to +50° C
IP Rating	IP67
Mounting	On Base via MIL Connector

Additional Options
 Cube, Different Thermal Lenses, Cables



Specifications subject to change without notice