

Thermal Imaging Surveillance Systems

Aquila PTZ 640-100Z

High Resolution PTZ Thermal/Visible

The Aquila PTZ 640-100Z is a rugged, low-profile Thermal Imaging Surveillance System.

The PTZ system employs two cameras:

Camera 1: This sensor is based on the latest Thermal Imaging technology, utilizing a VOx uncooled 17 μ m pitch 640 x 480 microbolometer, resistant to solar damage. It is fitted to a 15 - 100mm continuous zoom lens.

Camera 2: A standard color Sony block with either 26X or 36X zoom.

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 sunlight.

Key Features

- Uncooled 640 x 480 17 μ m VOx (Vanadium Oxide) Microbolometer
- Motorized continuous zoom lens from 42.2° WFoV (15mm) to 6.23° NFoV (100mm)
 - Simultaneous video streams for Thermal (1 channel) and Visible (1 channel)
 - Smooth and virtually silent operation
 - 360° continuous rotation at 100° per second
 - RS422 / 485 serial interface
 - Pelco D or Native
- IP67 sealed waterproof all-weather packaging
 - Colors: Black, Tan, White

LITEYE

www.liteye.com

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Thermal Imaging - Camera 1

Microbolometer	640 X 480 17 μ m
Spectral Response	8 - 14 μ m
Thermal Sensitivity	NETD typically 50 mK @ F/1.0
Format	NTSC/PAL
Lens Focal Length and F/#	15mm to 100mm Continuous Zoom F/1.4
FoV	From 42.2° x 31.6° WFoV (15mm) to 6.2° x 4.7° N FoV (100mm)
Focus Method	Motorized
Zoom	6.7 x True Optical Continuous Zoom / 2X digital

Visible Cameras

Camera 2 Options

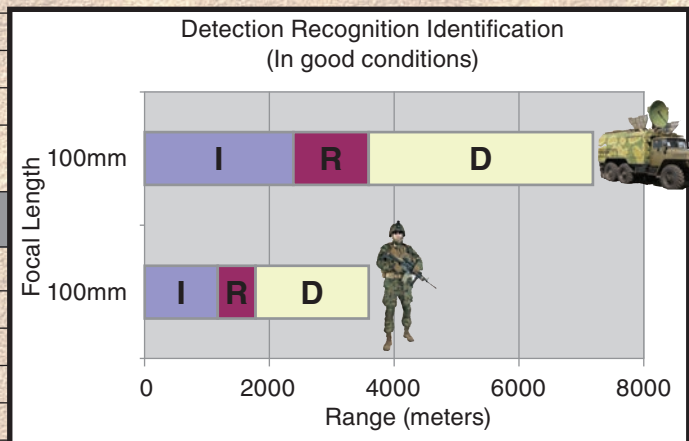
	Sony 980 Series	Sony 1000 Series
Optical Zoom	26 X	36 X
Digital Zoom	12 X	12 X
Lens Focal Length and F/#	3.5mm to 91mm F/1.6 to F/3.8	3.4mm to 122.4mm F/1.6 to F/4.5
HFoV	42° to 1.6°	57.8° to 1.7°
Resolution	470(NTSC)/460(PAL) TVL	470(NTSC)/460(PAL) TVL
Dynamic Range	50dB	50dB
Light Sensitivity @ Full Video Rate	1 Lux Col, 0.15 Lux Mono	1.4 Lux Col, 0.2 Lux Mono
Low-Light/Frame Integration	Yes (1/4 Sec)	Yes (1/3 Sec)
Auto Focus	Yes	Yes
Manual Focus	Yes	Yes
Image Stabilization	Yes	No

Pan & Tilt System Configuration

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

Environmental & Electrical

Weight	<11.3 kg
Dimensions (approx)	181 (H) x 419 (W) x 237 (D) (mm)
Housing Material	Cast Aluminum
Voltage / Power	12-30vdc /12W Nominal
Temperature	-40° C to +50° C
IP Rating	IP67
Mounting	On base via MIL connector



Options

Different Thermal lenses, IP, Eye Safe LRF, Vis Pointer, IR Pointer, Cube

Specifications subject to change without notice.



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