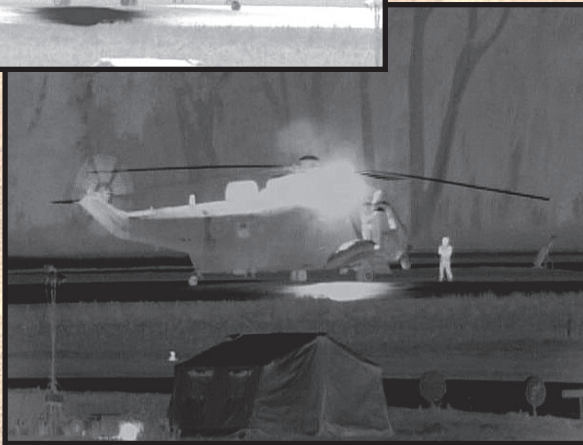




Thermal Imaging Surveillance Systems

Aquila PTZ 640-100MF

High Resolution PTZ Thermal/Visible



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

The PTZ system employs three 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 100mm Germanium high-aperture F/1.0 lens.

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

Camera 3: The third channel provides unique situational awareness capabilities over a wide field of view (65°) thanks to an ultra-sensitive color 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 sunlight.

Key Features

- Uncooled 640 x 480 17 μ m VOx (Vanadium Oxide) Microbolometer
- Long-range 100 mm Ge-Lens with high-aperture F/1.0 for best thermal sensitivity
- Simultaneous triple video streams for Thermal (1 channel) and Visible (2 channels)
 - 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

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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/# | 100mm F/1.0 |
| FoV | 6.23° x 4.76° |
| Focus Method | Motorized |
| Zoom | 2 x Digital zoom |

Visible Cameras

Camera 2 Options

Camera 3 Situational Awareness WFOV LL Camera

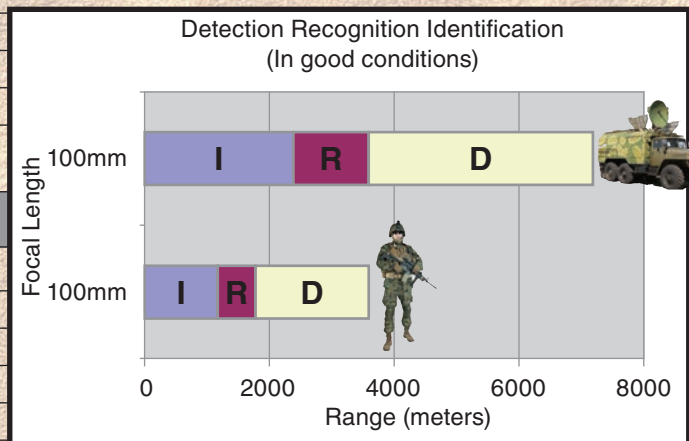
| | Sony 980 Series | Sony 1000 Series | |
|-------------------------------------|------------------------------|---------------------------------|------------------------------|
| Optical Zoom | 26 X | 36 X | N/A |
| Digital Zoom | 12 X | 12 X | N/A |
| Lens Focal Length and F/# | 3.5mm to 91mm F/1.6 to F/3.8 | 3.4mm to 122.4mm F/1.6 to F/4.5 | 4mm F/1.2 |
| HFOV | 42° to 1.6° | 57.8° to 1.7° | 65° |
| Resolution | 470(NTSC)/460(PAL) TVL | 470(NTSC)/460(PAL) TVL | 540 TVL |
| Dynamic Range | 50dB | 50dB | 50dB |
| Light Sensitivity @ Full Video Rate | 1 Lux Col, 0.15 Lux Mono | 1.4 Lux Col, 0.2 Lux Mono | 0.02 Lux Col, 0.002 Lux Mono |
| Low-Light/Frame Integration | Yes (1/4 Sec) | Yes (1/3 Sec) | N/A |
| Auto Focus | Yes | Yes | Fixed Focus - Factory Set |
| Manual Focus | Yes | Yes | Fixed Focus - Factory Set |
| Image Stabilization | Yes | No | 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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