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## IRIS216 Thermal Imaging PTZ Camera

The IRIS216 is a powerful thermal imaging pan tilt zoom camera incorporating a highly sensitive  $17\mu\text{m}$  pitch  $384 \times 288$  resolution amorphous silicone microbolometer sensor with a thermal sensitivity of less than  $50\text{mK}$ .

Boasting 44% more effective pixels than a standard 'QVGA' sensor, and improved pixel pitch, the IRIS216 achieves greater detection, recognition and identification values than many other cameras in its class.

The IRIS216 has an 18.5mm lens which provides a  $29^\circ$  HFOV, giving a detection range of around 1000m and a recognition range of around 400m, based on a vehicle sized object (2.3m).

With a number of selectable scene optimisation modes and 9 colour palettes, combined with a high speed, precise controllable pan tilt housing, the IRIS216 is a powerful thermal imager which performs to higher levels than many of its more expensive competitors.

### Key Features:

- 384 x 288 Resolution - 44% Greater than Standard QVGA Sensors
- Fast, Precise Controllable Pan / Tilt Housing
- Amorphous Silicone ASi Microbolometer Sensor  $17\mu$  Pitch
- Enhanced Contrast Processing
- Smooth, Continuous Digital Zoom
- Impressive Thermal Sensitivity (< $50\text{mK}$ )
- Waterproof IP66
- Extremely Compact Housing Measures  $130\text{mm}\varnothing \times 160\text{mm}$  High
- Wide Power Range 8~36VDC

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### Specifications:

Image Sensor	IRIS384 Asi Microbolometer
Resolution	384 x 288
Total Effective Pixels	110,592
Refresh Rate	8.3Hz / 25Hz (Pal) 7.5Hz / 30Hz (NTSC)
Spectral Response	8~ $14\mu\text{m}$
Pixel Pitch	2:1 Interlace
Lens	$17\mu\text{m}$
Thermal Sensitivity	< $50\text{mK}$ @ f/1.0
Video Output	1 V P~P, $75\Omega$ Composite, BNC
Shock & Vibe	MIL STD 810
Lens	Fixed 18.5mm / $29^\circ$ HFOV
Pan / Tilt Speed	Pan: $0.05\sim 220^\circ/\text{sec}$ ; Tilt: $0.03\sim 140^\circ/\text{Sec}$
Pan / Tilt Range	Pan: $0\sim 360^\circ$ Continuous / Tilt: $0\sim 90^\circ$
Detection / Recognition	2.3m Target. D:1000 / R:400m approx
Scene Modes	5
Colour Palettes	9 (all reversible)
Zoom	36x Smooth Digital Zoom
Communications	RS485. Pelco D Protocol
Image Flip	Vertical & Horizontal
Environmental	IP66
Minimum Illumination	0lux @ 100 IRE
Power Supply	8~36 VDC. Max Current: 2A
Current Consumption	Max at 12VDC: 1.6A
Dimensions	$130\text{mm}\varnothing \times 160\text{mm}$ Height.
Net Weight	1.5KG
Operating Temperature	$-30^\circ\text{C} \sim +60^\circ\text{C}$