Accuracii TO

The Accuracii TO is a powerful thermal observation system with an integrated precision pan tilt mechanism, that has been specially developed for security threat detection. It allows mid-range detection and observation using the latest 17µ 640x480 thermal technology. Vumii's Accuracii TO offers either: a range of athermal lenses, a 15-100mm continuous zoom head, or a 45/135mm dual field of view head for 24/7 operation. Available in analog or IP configurations, the Accuracii TO offers world class detection of people and objects, and is ruggedized to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity, and dust.
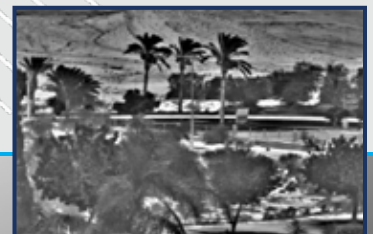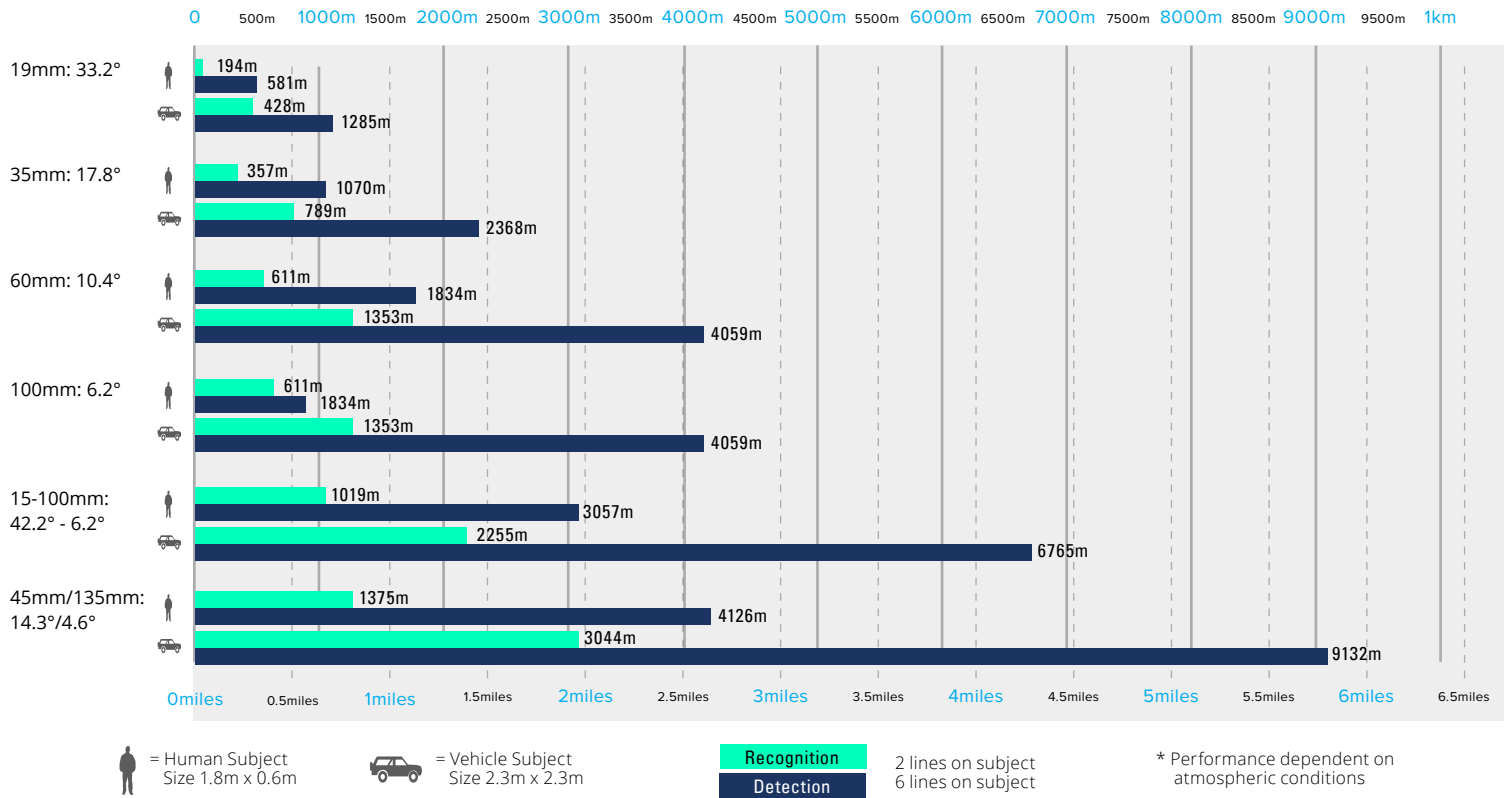
FEATURES

KEY BENEFITS

- **High Quality**
  World class 24/7 performance

- **Innovative Features**
  Unique image processing and enhanced contrast for video analytics systems

- **Advanced Optics**
  Continuous Zoom, Dual Field of View, Motorized, and Auto-Focus lens options

- **Rugged Design**
  Designed and certified to IP66, hot, cold, dusty, and other harsh environments

- **Easy Installation**
  Pelco D and ONVIF Profile S compliant

AVAILABLE CONFIGURATIONS

- **Video Output**
  NTSC or PAL

- **Video Streaming (IP)**
  Multiple, configurable streams in H.264 and MJPEG

- **Control Type**
  Analog (serial) or TCP/IP

- **Advanced Thermal Optics:**
  Continuous Zoom 15-100mm
  Dual Field of View 45/135mm

- **Athermal Optics:**
  19mm, 35mm, 60mm, 100mm

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Performance chart (Recognition vs Detection ranges):

Lens	Subject	Recognition	Detection
19mm: 33.2°	Human	194m	581m
19mm: 33.2°	Vehicle	428m	1285m
35mm: 17.8°	Human	357m	1070m
35mm: 17.8°	Vehicle	789m	2368m
60mm: 10.4°	Human	611m	1834m
60mm: 10.4°	Vehicle	1353m	4059m
100mm: 6.2°	Human	611m	1834m
100mm: 6.2°	Vehicle	1353m	4059m
15-100mm: 42.2° - 6.2°	Human	1019m	3057m
15-100mm: 42.2° - 6.2°	Vehicle	2255m	6765m
45mm/135mm: 14.3°/4.6°	Human	1375m	4126m
45mm/135mm: 14.3°/4.6°	Vehicle	3044m	9132m

Legend:
- = Human Subject, Size 1.8m x 0.6m
- = Vehicle Subject, Size 2.3m x 2.3m
- Recognition: 2 lines on subject
- Detection: 6 lines on subject
- * Performance dependent on atmospheric conditions

Imaging	Thermal Channel
Imager Type	Uncooled Microbolometer 7.5-14µ
Resolution	17µ: 640 x 480 (NTSC/PAL)
NETD	<50° mK
Video Output	RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm analog or IP H.264 or MJPEG digital
Lens Options	Athermal (19mm, 35mm, 60mm, 100mm), Continuous Zoom 15-100mm, Dual Field of View 45/135mm
Electro-Mechanical Characteristics	
Unit Dimensions	350mm (L), 260mm (W), 280mm (H)
Unit Weight	14kg max
Environmental Rating	IP66
Certifications	CE, FCC
Power Input	24VDC
Power Consumption	30w typical; 250w max
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Control Characteristics	
Communication Protocol	Pelco D, ONVIF Profile S, Vumii
Control Type	Serial: RS422/RS485 (4-wire) or TCP/IP
PTZ Characteristics	
Pan Range	360° Continuous
Tilt Range	-90° to +90°
Pan Speed	Variable Speed, 0 - 60°/sec max

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