

# Accuracii™ ML

## DUAL CHANNEL THERMAL AND CCD CAMERA SYSTEM

Accuracii ML is a powerful day-and-night, multi-sensor observation system especially developed for security applications. It allows mid-range detection and observation using state-of-the-art  $17\mu$  640 x 480 thermal technology. Vumii's Accuracii ML features either a 15-100mm Continuous Zoom head or a 45/135mm dual field of view head for day and night operation and a 1/4" CCD camera for daytime operation.

Accuracii ML is ideal for both the detection and assessment of security threats. Accuracii ML is ruggedized to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity and dust.



### KEY BENEFITS

#### High Quality

Superb 24/7 night and day performance

#### Innovative Features

Unique image processing and enhanced contrast for video analytics systems including Vumii's innovative Fire Detection.

#### Advanced Optics

Continuous Zoom and Dual Field of View, Motorized, AutoFocus Lenses

#### Rugged Design

Designed and certified to IP66, hot, cold, dusty, and other harsh environments

### AVAILABLE CONFIGURATIONS

#### Thermal Imager:

- $17\mu$ : 640 x 480 (NTSC/PAL)
- $25\mu$ : 320 x 240 (NTSC)
- $25\mu$ : 384 x 288 (PAL)

#### Thermal Optics:

- Continuous Zoom 15-100mm
- Dual Field of View 45/135mm

#### Visible Imager

- 1/4" color CCD camera

#### Visible Optics:

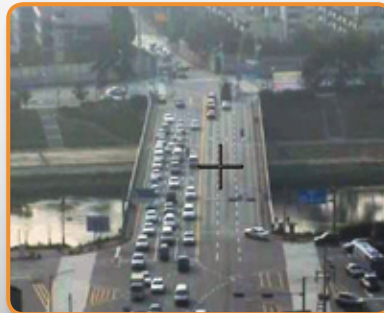
- Continuous Zoom 3.3 - 119mm

#### Video Output:

- NTSC or PAL

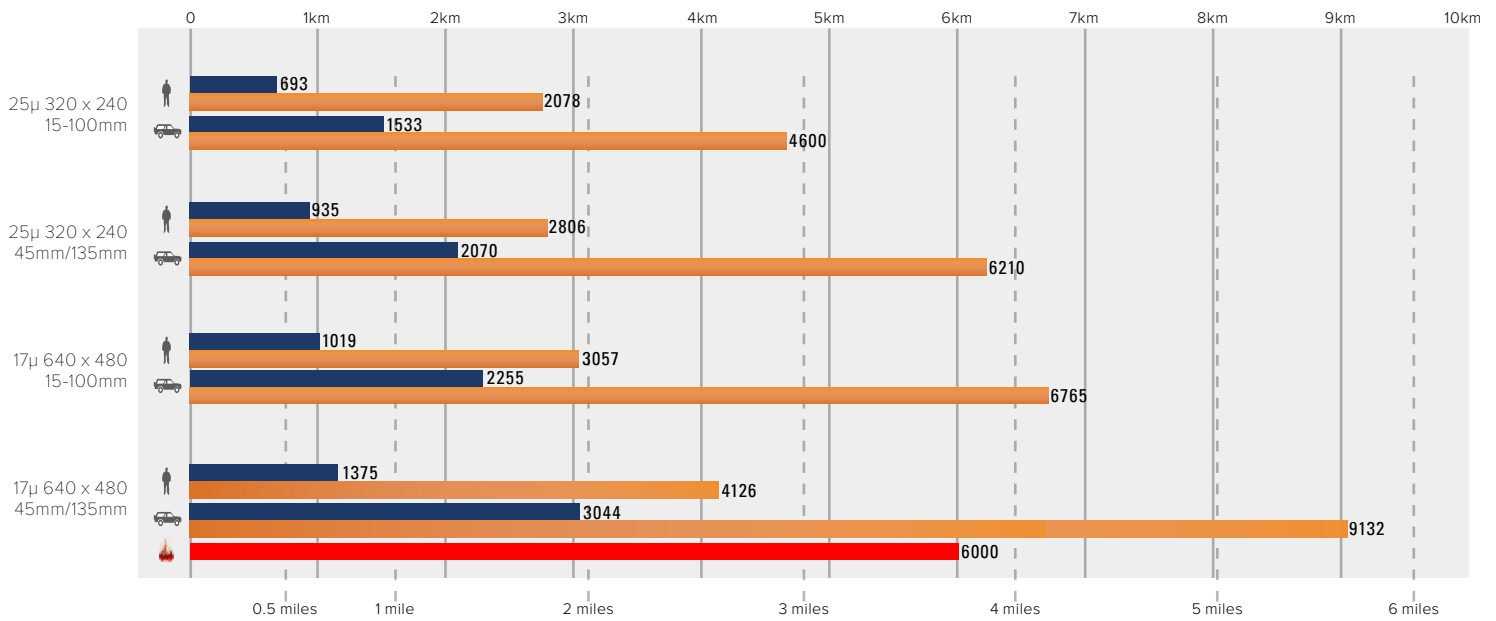
#### Additional Options:

- Laser Range Finder
- GPS
- Fire Detection



# Accuracii ML Range Performance

\*Performance Dependent on Atmospheric Conditions



= Human Subject  
Size 1.83m x 0.75m

= Vehicle Subject  
Size 2.3m x 2.3m

Fire Detection is available on the 17μ 45/135mm configuration

**Detection**  
**Recognition**  
Detection: 1.5 pixels across critical dimension  
Recognition: 6 pixels across critical dimension  
Critical Dimension: 0.75m (human); 2.3m (vehicle)

## Accuracii ML Specifications

Imaging Characteristics	Day Channel	Thermal Channel
Imager Type	1/4" Color CCD	Uncooled Microbolometer 7.5-14μ
Resolution	768 x 494 (NTSC) 752 x 582 (PAL)	17μ: 640 x 480 (NTSC/PAL) 25μ: 320 x 240 (NTSC) 25μ: 384 x 288 (PAL)
NETD		NETD: <50° mK
Video Output	NTSC (30Hz) / PAL (25Hz), 1.0V p-p, 75ohm	RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm
Lens Options	Continuous Zoom 3.3 - 119 (36x)	Continuous Zoom 15-100mm Dual Field of View 45/135mm
Horizontal Field of View	60.2° - 1.8°	17μ: 640 x 480: 42.2° / 6.2° 25μ: 320 x 240: 30.8° / 4.6° 25μ: 384 x 288: 37.1° / 5.5° 17μ: 640 x 480: 14.3° / 4.6° 25μ: 320 x 240: 10.4° / 3.4° 25μ: 384 x 288: 12.6° / 4.1°

Electro-Mechanical Characteristics	Day Channel	Thermal Channel
Unit Dimensions		10.6" (h) x 21.4" (w) x 9.4" (d) 269mm (h) x 542mm (w) x 237mm (d)
Unit Weight		42lbs (19kg)
Environmental Rating		IP66
Certifications		CE, FCC
Power Input		24VDC (115/230VAC with optional Electronics Unit)
Power Consumption		30w typical; 350w max
Operating Temperature		-40° to +140° F (-40° to +60° C)

Control Characteristics	Day Channel	Thermal Channel
Communication Protocol		Pelco D, Vumii (SDK Available)
Control Connection		Serial: RS422/RS485
Control Type		Serial or TCP/IP (with optional electronics unit)

PTZ Characteristics	Day Channel	Thermal Channel
Accuracy		+/- 1.5 mRad
Pan Range		360° Continuous
Tilt Range		-90° to +90°
Pan Speed		Variable Speed, 0 - 50°/sec max

\* Some countries may be subject to thermal camera export licensing requirements

All specifications are subject to change without notice. All rights reserved.