

# ATNIS 215x



The ATNIS 215x is the height of today's most advanced video imaging and analytics technologies uniquely designed for aircraft surveillance, combining dual megapixel sensors, long range infrared (IR) night vision, multi-mode WIFI, cellular and GPS radios, compass, lithium batteries and TTI's SKAINET video processing engine.

The result is the most advanced level of aircraft detection, classification and identification for today's airport operations. With location-aware GPS capability, the 215x can be deployed fixed or portable and operate stand-alone or be combined to create a comprehensive airfield surveillance network across one or multiple airports.

## KEY FEATURES

- Two dedicated cameras for Day/Night Surveillance
- Low light 850nm Infrared LEDs do not interfere with pilot safety
- Multi-Mode WIFI, Cellular and GPS radios connect anywhere
- TTI's SKAINET video analytics software preloaded
- Battery, Solar or 12VDC power for fixed or portable deployment
- Powder Coated Aluminum NEMA 4x Waterproof Enclosure

## TECHNICAL SPECIFICATIONS

### CAMERA

Imaging	Day: 3 megapixel color CMOS image sensor Night: 1.3 megapixel B&W CMOS image sensor 1/2" optical format
Active Pixel Count	Color sensor: 2048(H) x 1536(V) pixel array B/W sensor: 1280(H) x 1024(V) pixel array
Lens Type	12, 16, 25, 35 or 50 mm 2/3" fixed megapixel lenses
Range of Focus	5m to infinity
Minimum Illumination	Color: 0.2 Lux @ F1.4 B/W: 0 Lux (works in complete darkness)
Frame Rate	15fps @ 2048x1536, 20fps @ 1920x1200 32fps @ 1280x1024

Dynamic Range	61 dB
SNR	49 db
Compression Type	H.264 (MPEG4, Part 10), Motion JPEG
Exposure	Auto Exposure (AE) and Gain Control (AGC) >120dB. Programmable shutter speeds to minimize motion blur
Day/Night Switching	Automatic via photo sensor and image analytics
Network	IP
Transmission Protocols	TFTP, HTTP, RTSP, RTP over TCP, RTP over UDP
Data Link Transmission	Ethernet over wireless

### INFRARED IMAGING

Wavelength	850 nm
Beam Angle	30°
Range	Detection - 137 m (450 ft) Classification - 107 m (350 ft) Identification - 76 m (250 ft)

### NETWORK & ENCRYPTION

WIFI	802.11n, Bluetooth
Cellular	3G (GSM/GPRS/EDGE, HSPA+, UMTS/HSPA)
GPS/Compass	• 56-channel · GPS L1 C/A, GLONASS L1 FDMA • QZSS L1 C/A · Galileo E1B/C • SBAS: WAAS, EGNOS, MSAS · 10Hz update rate
Security	SSL based authentication
Encryption	AES 128/256

### CPU ENGINE & SOFTWARE

Processor	Freescale i.MX6 Quad
Cores	Cortex-A9 Quad core
Graphics Engine	Vivante GC 2000, GC 355, GC 320
Memory	2GB DDR3
Micro SD	2
Hard Drive	256GB SATA
Software	TTI SKAINET v3.1 preloaded
Version Control	Software/Firmware updates via network link

### ELECTRICAL

Voltage Supply	12 VDC, solar, internal battery
Power Consumption	Passive (2.5 W), Active (7 W), IR ON (43 W)

### MECHANICAL

Dimensions	9.75"W (246 mm) x 7.5"H (191 mm) x 9.25"D (235 mm)
Weight	External Power 5.4kg (12lb), Internal Battery 16.8kg (37lb)
Mounting	7.62 cm (3.0 in) aluminum pole with fragile coupling

### REGULATORY

USA	FCC, Class A
Europe	CE

### WARRANTY

Minimum	2 Year parts and labor
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