

### Aerora™ Multi Sensor and Lens Al Camera

# The Ultimate NDAA-Compliant AI Camera + Thermal for UAVs

The Aerora™ Dual Sensor AI Camera combines 64MP RGB and FLIR thermal imaging with real-time AI processing, delivering exceptional clarity and precision for first responders, industrial inspections, and defence operations. Built to withstand extreme conditions, its rugged, lightweight design ensures easy drone integration, outstanding reliability, and full NDAA compliance—so you can operate confidently in any environment.

#### • NDAA Compliance & Secure Manufacturing

Meets NDAA security & supply chain standards Assembled & tested in the USA

#### • Dual High-Resolution Imaging

64MP RGB Camera – Crystal–clear details, 4K video at 60/30 fps FLIR Boson® 640R Thermal Sensor – Sharp infrared vision, 640 × 512 resolution

#### • Powerful AI & Real-time Processing

15 TOPS AI Engine – Enables real-time object detection & analytics Qualcomm® QRB5165 SoC – Octa–core CPU & Adreno™ 650 GPU

#### Ultimate Stability & Seamless Integration

3-Axis Gimbal – Supports up to 31mph wind resistance Multiple Interfaces – CAN, UART, SBUS, PPM, Ethernet, USB 3.0, HDMI, Mavlink

### • Reliable & Rugged Design

IP44 Enclosure, IP54 Camera – Operates in harsh environments Operating Temperature: -10°C to 50°C

#### White-labeling

Customizable branding options.

#### **KEY SPECIFICATIONS**

Hardware	W101mm x H110mm x D90.64mm (4.0" x 4.3" x 3.6") 262g (9.2oz), Aluminum 12V	
Camera	RGB	Thermal
Resolution	64MP (1/2" sensor)	FLIR Boson® 640 x 512
Field of View (FOV)	67°HFOV	32°HFOV
F Value	F2.3	F1.0
Picture Size	64MP (9248 x 6944) 16MP (4624 x 3472)	640 x 512
Digital Zoom	924 x 694 zoom crop in 64MP mode 462 x 347 zoom crop in 16MP mode	
Picture Format	JPEG	RJPEG
Video Size	4K (3840x2160) @ 60fps or 30fps FHD (1920x1080) @ 60fps or 30fps	640 x 512 @ 30fps
Video Format	MP4 with H.264 encoding	
Live Video Stream	H.264 1280 x 720 at 30fps	
IR Image Display	Side-by-Side, Picture-by-Picture	
IR Color Modes	White hot, Black hot, Rainbow, RainHC, Ironbow, Lava, Arctic, Glowbow, Graded Fire, Hottest	
Processing & Al	Al Engine: 15 Tera Operations Per Second (TOPS)	
	Processor: Qualcomm QRB5165 Octa-core	
Gimbal System	Stabilization: 3–axis with ±0.02° precision	
	Movement: Pan/Yaw ±90°, Tilt –90° to +10°, Roll ±45°	
	Wind Resistance: Level 6 (max 14 m/s)	
SD card Support	exFAT with 64GB or larger V30 100MB/s	
Connectivity	CAN, UART, SBUS, PPM, Ethernet (10/100 Mbps), USB 3.0, HDMI	
Environmental	Operating Temperature: -10°C to 50°C	
	Certification: FCC, IP44	
NDAA Compliance	Meets NDAA requirements	
	Assembled, tested, and manufactured in the USA	



## **Accelerating Drone & Robotics Innovation**

Empowering your products with NDAA-compliant propulsion, advanced ground control stations, and precision Al payload systems — ready to rapidly scale your solutions.

Faster Time-to-Market | 100% NDAA Compliant | Effortless Scaling