



SwitchBlade-Elite + Hadron 640R

High Performance

Visible & Thermal

AI-enabled



- **20% longer flight times** resulting from the ultralight camera, Indefinite Flight Package & SWaP optimization
- **Easy transport and rapid deployment**
- **Clear thermal and visible images** from the dual Boson thermal camera with <40mK sensitivity and the 64MP visible camera and, along with dual 60Hz video output
- **Geo-tagging and AI-enabled**



**AMERICAN-MADE
DRONES**

Designed for critical robotic operations, the FLIR Hadron 640R has been seamlessly integrated with all of Vision Aerial's aircraft. In addition to high resolution EO/IR images, this integration delivers value-add solution features such as extended flight time and geotagging. And you get the same aircraft features from Vision Aerial that you've come to expect – payload versatility, advanced features of the Flight Deck, and exceptional customer service.

Together, Vision Aerial and the Hadron 640R are a perfect fit for applications where you need enhanced situational awareness in low light and other complex environments.

Contact

(406) 333-1795

www.VisionAerial.com

Designed, manufactured, assembled,
tested, and serviced in the USA.

Visit our product
webpage





Payload Specifications

Payload Specs	
Size	130mm x 140mm x 95mm
Weight	477g
Power Consumption	24 Watts
Operating Temperature	-10° C -> 50° C

Edge Computer	
Chipset	Qualcomm 5165RB - NDAA
Storage	SD Card

Gimbal	
Brand	Gremsy
Model	G-Hadron
Angular Vibration Range	±0.01°
Controlled Rotation Range	Pan: ±175° Tilt: ±120° Roll: ±40°
Max Controllable Rotation Speed	Pan: 100°/s Tilt: 100°/s Roll: 100°/s
Mechanical Endpoint Range	Pan: ±170° Tilt: ±170° Roll: -260° to 80°
Operating Temperature	14° F ~ 120 °F (-10° C ~ 50° C)

Camera	
Brand	Teledyne FLIR
Model	Hadron 640R

Camera EO Sensor	
Resolution	64.2MP
Field of View	67°
Aspect Ratio	4:3
Pixel Pitch	0.7 µm
Image Size	9248p x 6944p
F/#	1, 2.3
Zoom	1-12x Digital zoom (8x Optical zoom equivalent, Constant 1080p video downlink up to 8x zoom)

Camera IR Sensor	
Resolution	640 x 512p
Field of View	32°
Aspect Ratio	5:4
Pixel Pitch	12 µm
Image Size	640 x 512p
F/#	1.0
Temperature Accuracy	±5°
Zoom	1-8x Digital zoom