FRONTIER PRECISION
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65R Sensor

Maximize Pixel Coverage with an Ultra-High-Resolution Aerial Sensor

Maximize unmanned aerial vehicle (UAV) success while capturing the sharpest aerial imagery with a sensor built for endurance. The 65R accelerates productivity and improves efficiency with the ability to fly longer while capturing more pixels per image – resulting in more precision, accurate aerial data you can trust.

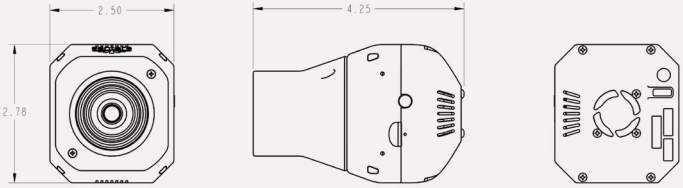
Compatible with Industry-Leading Ag Drones

Matrice (M300)

PHX Fixed-Wing

Optimize Drone Operations

Seamless integration into small drones (including RTK systems)



Shown with standard 27mm FL lens.

Key Specifications for the 65R Sensor

Image Sensor

Gpixel GMAX3265
Resolution: 9344 x 7000

Pixel Size: 3.2 um

Shutter: Global

Lens Options:

Focal Length	27 mm (standard)	43 mm
FOV	57.6° x 44.8°	38.3° x 29.2°
GSD @ 125 ft	0.45 cm	0.30 cm
GSD @ 400 ft	1.43 cm	0.90 cm
Camera Size*	2.50” x 2.48” x 4.19”	2.50” x 2.78” x 4.55”
Camera Weight*	330 grams	405 grams

*includes lens

Power: 9-26V Input, 12W Typical

Frame Rate: 3 FPS

Image Format: JPEG

Storage: 512 GB Internal PCIe NVMe

Interfaces
USB-C
Gigabit Ethernet
UART
Digital I/O
- Input Pulse/PWM for Image Capture
- Input Pulse Per Second (PPS) for Time/Position Sync
- Output Pulse for Image Exposure Sync

Features:
Integrated IMU
Pushbutton Trigger Option