

EO/IR – Sensor overview

Baseline configuration and project-specific options

Sensors are selected for the individual UAV configuration. Resolution, optical zoom, digital zoom and output format are separate properties; they do not apply universally to every platform.

Assignment within the product portfolio

Platform / role	Documented baseline	Extensions
AERIS Recon S7	EO 1280 × 720; 20× optical + 2× digital (40× combined). LWIR 640 × 480.	Different sensors and output formats require a separate configuration.
VECTIS Recon / R Recon	EO/IR as the primary mission payload; modular sensor/gimbal architecture.	Sensor, zoom, IR resolution and functions specified per project.
VECTIS Relay / R Relay	Communications as the primary role; additional EO/IR capability possible.	Selection within available mass, power and installation margins.
VECTIS X Fusion	Combined sensor and communications integration using dual deck and four rails.	Joint design of sensor, radio, onboard supply and centre of gravity.

Selection criteria

Observation task, field of view, frame rate, stabilisation, mass, power demand, latency and data link must be matched. AI, tracking and metadata depend on payload and software. A higher stream resolution does not establish a higher native sensor resolution.

Selection guide; no blanket sensor or integration approval. Deliverable equipment follows the agreed configuration.