Raptor photonics



Raptor's Owl Flight Ready Camera Package

🛠️ Electronics & PCB Assembly

Standard Build Feature
PCB Manufacturing: Manufactured to IPC-6012FS (rigid PCBs) and IPC-6013 Class 3 (flexi-rigid PCBs), including washing and inspection.
Assembly Quality: IPC J-STD-001J Class 3 soldering for electronic assemblies.
Component Grade: Industrial grade electronic components utilized.
No conformal coating applied to PCBAs. (Optional Humiseal 1B31 confromal coating)

⚙️ Mechanical Finishes & Mounts

Standard Build Feature
Surtec 650 (Black anaodising optional)
Lens Mount: Removable C-mount with a flat front
Fasteners: Vented screws utilized for blind holes only.

🛰️ Environmental & Thermal Management

Standard Build Feature
Operating Temperature: Extended range from -40°C to +71°C.
Thermal Management: Low outgassing materials used for internal hotspot management.
Target Application: Build standard is fully optimized and suitable for LEO applications.

⚠️ **Note: Customer is responsible for thermal management of the camera body.**

BUILT FOR LAUNCH
Rugged. Reliable.
Mission ready.

BUILT FOR EXTREMES
Engineered to perform
in the harshest conditions.

BUILT FOR RELIABILITY
Aerospace standards.
Quality you can trust.

BUILT FOR PERFORMANCE
Stable imaging.
Clear results every time.

BUILT FOR INTEGRATION
Flexible interfaces.
Seamless payload integration.