Raptor 4KIR Camera Pod
4K + LWIR Dual Continuous Zoom

4K+LWIR Continuous zoom
on both cameras

Integrated with optional
360 pan 3-axis gimbal

Airborne Innovations' 4K + Thermal Camera Pod features:
- **4K Camera with 20x optical zoom (30x Super Resolution)**
- **640x480 LWIR Camera with 5x continuous optical zoom**
- **Dual simultaneous 4K+IR transmission with Picoradio link**

Available standalone to install on your own gimbal or as complete integrated solutions with 360 pan gimbal. They integrate well with our Picoradio link (and Pixhawk / DJI Naza autopilot) for long range UHD video transmission, autopilot command and control, and optional SBUS over a single link.

Also see some of our other products: Picoradio (advanced datalink), Picocamera (Global shutter IP camera), Picoraptor (IP video encoder).

We are also a provider of custom unmanned vehicle software/payload services and advanced custom imaging solutions. This is an example of the types of payloads we can integrate- we can use our building blocks to put together custom solutions for you. If you're trying to solve a problem, get in touch with us.

Specifications

4K Camera
- **3840x2160 resolution**
- **20x optical zoom,**
- **30x super resolution zoom**
- **Zoom and focus control**
- **H.265 Ethernet output**
- **Realtime 4K downlink**
- **FOV 4.1 deg to 70.2 deg**

Thermal Camera
- **640x480 LWIR**
- **12um pixel pitch**
- **5x continuous optical zoom**
- **Zoom and focus control**
- **H.264 Ethernet output**
- **FOV 5.8 to 28.8 deg**

Camera Pod Features
- **Dual simultaneous video**
- **Integrates with Picoradio and other datalinks**
- **Weight 1.15 kg**
- **Non ITAR**

Airborne Innovations
airborneinnovations.com

4KIR Camera Pod / Accessories List

**970-4K-640IR-01   Camera Pod with 4K 20x zoom + LWIR 5x zoom thermal
4KIR Camera Pod**

4K camera with 20x optical zoom (zoom and focus control)
LWIR thermal camera with 5x motorized zoom (zoom and focus control)
single connector for power +ethernet interface
SBUS control of camera and gimbal using our optional SBUS kit (and/or ethernet control)
Payload control integrated with flight controls or independent payload control interface

970-00100-00   Integrated gimbal for 4KIR
Optional gimbal integrated with above (modified Gremsy T3), includes quick release
and gimbal to pod cable. Note the T3v3 is not 360 pan but 360 pan T3's are still available.

Optional Accessories:

970-00100-10   Gimbal to Picoradio ethernet + power + SBUS cable
970-00100-10   Gimbal to RJ45 ethernet + power + SBUS cable
970-00100-15   Gimbal to pod cable
**970-00100-20   Gimbal bench stand (quick connect aluminum), with
integrated dev cable (ethernet + power to stand)**
970-00100-30   Pelican air case for gimbal and pod

**850-00240-01   Picoradio 2.4 GHz MIMO advanced datalink module
(other bands/versions available)**
750-00100-00   Picoradio cable kit
755-00100-00   SBUS Module Kit
   Includes SBUS2Serial base station, Serial2SBUS airborne modules

pMDDL2450-ENC   Enclosed 2.4 GHz MIMO base station

BASE-ANT-KIT   Pair of long range base station antennas
AC-ANT-KIT   Pair of aircraft antennas

Airborne Innovations