Technology for UAVs - cameras and more

Technology for UAVs is developing rapidly as an increasing variety of applications adopt the flexibility and extended capability offered by drones. Vision is an essential element in the majority of uses, when receiving high-resolution image data from these UAVs in real time is often critical, but specific requirements vary according to several factors.

Vision solutions for drones

Our **Harrier autofocus-zoom block cameras** and **Oriole board cameras** are ideal for integrating into remotely-operated or autonomous devices across a range of applications.

The versatile full HD autofocus zoom cameras of the Harrier range include very compact models, **global shutter options**, powerful zoom and come in multiple video output options.

For 4K resolution imaging we recommend our **Harrier AF-Zoom 4K cameras** with either HDMI or Ethernet IP video output.

Our smallest cameras, the **Oriole HD-SDI board cameras,** offer switchable IR-cut filter for day and night mode and global shutter variants.

Some of the benefits of our compact autofocus-zoom cameras and board cameras:

- Light weight for mounting on small, medium or large drones
- Real-time video transmission
- High-resolution imaging – Full HD video and 4K video options available
- Outputs include LVDS, 3G-SDI, USB, HDMI, Ethernet IP and MIPI-CSI2

Applications include:

- Industrial inspection
- Defense and security
- Logistics and critical deliveries

- AgriTech
- Remote inspection and surveying
- Law enforcement

Read our blog to understand more about the imaging requirements for these very different but essential UAV applications.

Enquire about our camera solutions for UAVs

Size, weight and power are key parameters, but each application imposes different requirements on the optical properties of the camera. Our **Harrier autofocus-zoom cameras** and **Oriole board cameras** offer modules and **interface boards** to suit every aerial application.

Our **application video** shows which of our modules will best support your vision system requirements.

Steatite – computing, navigation and power solutions for drones

Our sister company, **Steatite**, offers a wide range of components and solutions for drones, UAVs and autonomous systems, in addition to Active Silicon's camera systems. This comprises UAV communication systems, onboard computing solutions, ground control options, power systems and components for aerial navigation and steady flight.

Together, we've recently published a **guide** which looks at the latest UAV developments and technologies, and what components are available to engineers seeking to optimize surveillance, remote monitoring and even delivery technology.

Download "Selecting the right technology for UAVs" (PDF)

The guide also examines whether a rolling shutter or global shutter camera will be best, as well as looking at the ideal video output and resolution options.

Get in touch with Active Silicon's team of experts to discuss your drone project and which vision solution will optimize your UAV.

Contact us for UAV imaging solutions

Active Silicon is a leading manufacturer of imaging products, embedded systems and custom solutions. If you would like to stay informed of upcoming events, products and news in general, then please follow us on one of our social media channels below.

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