The XSight™ 1721 Video Processing Module provides advanced full motion video processing for target detection, tracking, video stabilization, and compression.

XSight™ provides robust multi-target tracking, image stabilization, and video encoding on high resolution (up to 4K Ultra HD) video in a low SWaP package.

Modular design allows for enhanced capabilities such as multispectral image fusion, vision-guided landing, sense and avoid, moving target indicators (MTI), and vision-based navigation.

XSight™ provides vision solutions for an array of ISR, remote sensing, ground-based vehicle, security, robotic, and scientific applications.

**KEY FEATURES**
- Small Size: 2.0” x 3.0” (Custom Manufacturing Available)
- 4K Ultra HD (3840 x 2160) Video Support
- Processing of up to 4 Simultaneous Video Streams
- Multi-Target Tracking (Up to Ten Targets Simultaneously)
- Digital Image/Video Stabilization
- H.264/MPEG-4 Encoding
- Metadata On-Screen Displays
- Low-Power Consumption as Low as 6W
- Weight: Under 55 grams
- Video Resizing
- Digital Zoom
- Flexible Camera Interface Support
- Modular I/O
- Pre/post Processing Capable
- Multi-Camera Support
- Target-of-Interest Picture-in-Picture (TOI-PIP)
**SPECIFICATIONS**

**Size, Weight and Power**
- 2.0” x 3.0” x 0.335”
- 55 grams
- 6 to 35W (Configurable depending on processing and peripherals)
- Power input 4.5 to 15V

**Inputs / Outputs**
- Supports up to 3840 x 2160 @ 30Hz (4K Ultra HD)
- Up to 4 HD-SDI Inputs/Outputs
- HDMI
- Camera Link (2 Channels)
- LVDS
- 10/100/1000 Ethernet
- CAN-bus
- 4 x RS-232 Channels (Configurable for RS-485/422)
- GPIO
- MicroSD Data Storage

**Video Processing**
- Image Stabilization
- Target Tracking
- Metadata Overlays
- Digital Zoom
- Video Signal Conversion
- Moving Target Indicators
- H.264/MPEG-4 Encoding Bit Rate Adjustable
- Multi-Target Tracking
- Target-of-Interest Picture-in-Picture (TOI-PIP)

**Environmental**
- -40° to 85°C Operating Environment

**Applications**
- Manned/Unmanned
  - Aerial Vehicles
  - Ground Vehicles
  - Underwater Vehicles
- Security and Surveillance Systems
- Vision-based Navigation
- Vision Guided Landing
- Sense and Avoid
- Border Patrol
- Optical Tracking Systems
- Traffic Surveillance

Adsys Controls provides solutions for precision control systems, advanced electro-optical systems, laser systems, modeling and simulation, and unmanned aerial systems for military and commercial markets. From electronics design, embedded RT software, and image processing to game-changing laser and electro-optical systems for ISR&T, weapons, communication, and navigation, Adsys Controls provides state-of-the-art solutions for the most challenging problems.