The XSight™ 1711 HD Video Processing Module is a state-of-the-art full motion video processor for onboard target detection, target tracking, and video stabilization of high-definition video streams.

XSight™ provides robust multi-target tracking, image stabilization, and video encoding on 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**
- HD Component Video In/Out
- Multi-Target Tracking (Up to Ten Targets Simultaneously)
- Digital Image/Video Stabilization
- H.264/MPEG-4 Encoding (Bit-rate Adjustable via Command Interface)
- Metadata Video Overlays
- Small Size: 2.6” x 3.3” (Custom Manufacturing Available)
- Low-Power Consumption: <7W
- Weight: Under 80 grams
- Video Resizing
- Digital Zoom
- Modular I/O
- Pre/post Processing Capable
- Multi-Camera Support
- Target-of-Interest Picture-in-Picture (TOI-PIP)
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.

Adsys Controls, Inc. makes no warranty or representation regarding its products’ specific application suitability and may alter, without notice, the specification of our products described in this brochure.

X Sight™ 1711
High-Definition Video Processing Module

SPECIFICATIONS

Size, Weight and Power
- 2.6” x 3.3” x 0.75"
- Under 80 grams
- Less than 7 Watts

Inputs / Outputs
- HD Component Video In/Out 1080i, 1080p, 720p
- NTSC Composite Video In/Out
- HDMI In
- RS-232 (3 Channels)
- < 100 milliseconds I/O Latency
- Modular IO Cards can Support:
  - HD-SDI In/Out
  - Cameral Link In/Out
  - GigE Vision Video In/Out

Environmental
- -40° to 85°C Operating Environment

Video Processing
- Image Stabilization
- Target Tracking
- Metadata Overlays
- Digital Zoom
- Video Signal Conversion

Advanced Features
- H.264/MPEG-4 Encoding Bit Rate Adjustable
- Multi-Target Tracking
- Target-of-Interest Picture-in-Picture (TOI-PIP)

Optional Features
- Multi-Camera/Sensor Image Fusion (EO/IR)
- Integration with Adsys’ Gimbal Control Processor
- Moving Target Indicators (MTI)

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