

# XSight™ 1711

High-Definition Video Processing Module

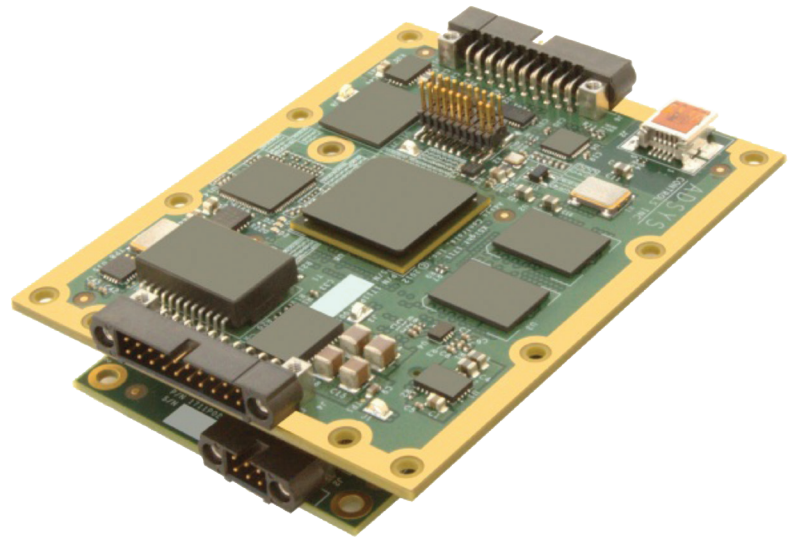
**ADSYS**  
CONTROLS INC.

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  
state-of-the-art solutions  
for the  
most challenging problems

# XSight™ 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 mseconds I/O Latency
- » Modular IO Cards can Support:
  - HD-SDI In/Out
  - Cameral Link In/Out
  - GigE Vision Video In/Out

#### Environmental

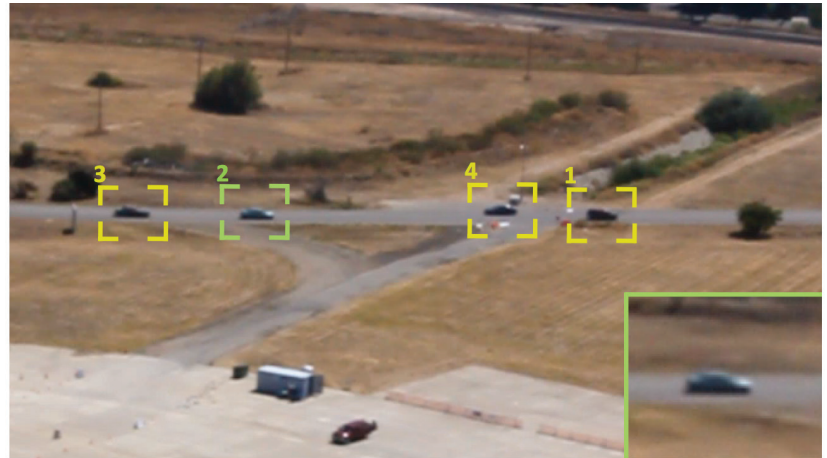
- » -40° to 85°C Operating Environment

#### 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

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.

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