

Arrow 600

6-inch Low-SWaP 4-Axis Stabilized Gimbal
with Onboard HD Video Processing

ADSYS
CONTROLS INC.

Ultra-performance precision stabilized gimbal with modular configurations for EO/LWIR/SWIR/MWIR cameras and laser payloads

The Arrow 600 4-axis gimbal architecture yields best in class pointing stability for improved image quality, longer range capability and accurate target designation.

The Arrow 600 offers large-gimbal features in a low-SWaP ruggedized solution with the ability to configure a wide array of payload options to meet varied mission needs.

KEY FEATURES

- » 6" class 4-axis stabilized gimbal offers significant stability advantages over 2-axis solutions
- » Fiber Optic Gyro stabilized for precision stabilization and low pointing drift
- » Flexible payload configurations including HD-EO, cooled MWIR, LWIR, SWIR, LRF, Laser Designator, Laser Pointer (up to 3 payloads for cross-mission support)
- » Onboard HD video processing with multi-target tracking, digital video stabilization, moving target indicators and H.264 video compression
- » Optional on-board INS for target location estimation
- » High-pressure wash compatible (IP66)
- » Optional Anti-icing for extreme weather
- » Designed for high-speed and high-altitude flight



Adsys Controls provides
state-of-the-art solutions
for the
most challenging problems

Arrow 600

Low-SWaP HD Gimbal

The Arrow 600 Low-SWaP HD gimbal enables small UAS platform missions previously unachievable, effectively merging advanced sensor technologies and cutting-edge on-board image processing capabilities with highly stable LOS.

Size, Weight and Power

- » 6.3" Diameter x 12" Tall
- » 4 Kg*
- » 26W Average/60W Peak Power*
- » 18-30V Power Input

Pointing

- » Inertially Stabilized using FOG gyros
- » < 40 μ rad Pointing Stability
- » 20 μ rad Pointing Accuracy
- » Continuous pan / +70° to -90° Tilt
- » 160 deg/sec Max Slew Rate
- » Modes
 - Manual
 - Inertial
 - Target Track
 - Scene Lock
 - Geo-Pointing**

Inputs/Outputs

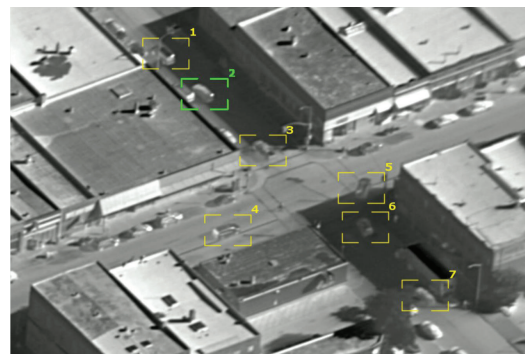
- » Control I/F
 - CAN-bus, Gig-E, RS-232
- » Video I/F
 - HD-SDI*
 - Camera Link*
 - LVDS*
 - HD Component
 - NTSC Video*

Video Processing

- » Digital Image Stabilization
- » Multi-Target Tracking **
- » Moving Target Indicators**
- » Metadata On-Screen Displays
- » Digital Zoom
- » Target of Interest Picture-in-Picture (TOI-PIP)
- » Video Signal Conversion
- » Split Screen Viewing**
- » H.264 Video Encoding + KLV Metadata**
- » H.264/MPEG-4 Encoding Bit Rate Adjustable**
- » Auto Zoom
- » Multi-Target Tracking with Smart Cluster Following™

Environmental

- » -30° to 50°C Operational
- » IP66 sealed against salt, dust, rain, fog
- » High Altitude Operations (> 30k ft MSL)
- » Anti-Icing**



Sensor Payloads (Configurable)

- » HD Visible Camera
 - Resolution - 1920 x 1080
 - 2.3° to 63.7° Continuous Optical Zoom
- » Long-wave IR
 - Resolution - 640 x 480
- » Cooled MWIR
 - Resolution - 640 x 480
 - 25-100mm Continuous Optical Zoom
- » SWIR
- » Laser Pointer/Marker
- » Laser Range Finder
- » Laser Illuminator

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.

* Configuration Dependent

** Optional

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