AXSYS TECHNOLOGIES | GENERAL DYNAMICS Advanced Information Systems

Cineflex V14 HD

Gyro-Stabilized Airborne Camera Systems

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FEATURES

- 5-Axis Stabilization
- True High-Definition Imagery
- Interchangeable Lens Options
- Compact Size and Weight
- Ergonomic, User-Friendly Design
- Easily Integrated Into Existing Systems
- Easy Accessibility to Control Functions During Flight

The Cineflex V14 HD delivers true high-definition (HD) imagery with unparalleled stability. The 5-axis assembly provides layered isolation, steering and fine correctional movements for stabilization to a sub-pixel level. The system's capture devise, the Sony® HDC-1500 1080p professional broadcast camera, provides true scene fidelity with unmatched color clarity and resolution.

The camera system is available with extreme standoff lenses with unrivaled focal lengths or conversely wide angle lenses for cinematography applications. The V14 HD is the only gyro-stabilized camera system to enable the user to interchange lens options at leisure, allowing a single system to serve multiple and distinctive applications. With its unrivaled stability, extended range and performance at high altitudes, the Cineflex V14 HD is the ideal solution for remote monitoring applications.

Axsys designs and manufactures a full portfolio of high-performance electro-optical infrared (EO/IR) camera systems. As a division of General Dynamics Advanced Information Systems, Axsys leverages the breadth and expertise of the company's end-to-end intelligence and cyber mission integration offerings.

Cineflex V14 HD

HD Daylight Sensor

Camera	Sony HDC-1500
Sensor Type	3-CCD 2/3"
Effective Pixels	1920(H) x 1080(V)
Aspect Ratio	16:9
Resolution	1080p, 720p, NTSC/PAL
Spectrum System	F1.4 prism system
Built in Filters	1: Clear, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND A: Cross, B: 3200K, C: 4300K, D: 6300K, E: 8000K
Servo Filter Control	Yes
Sensitivity	F10 at 2000 lx (3200k, 89.9% reflectance)
Signal-To-Noise Ratio	54dB (typical)
Horizontal Resolution	1000 TV lines

Lens Options

The camera system can be adapted for multiple lens configurations upon request.

Angènieux™ 40 x 22*	(22mm to 1760mm optical, 3520mm digital)*
Fujinon™ HA 42 x 13.5	(13.5mm to 1134mm optical, 2268mm digital)
Fujinon™ HA 42 x 9.7	(9.7mm to 815mm optical, 1630mm digital)
Fujinon™ HA 22 x 7.8	(7.8mm to 343mm optical, 686mm digital)
Fujinon™ HA 13 x 4.5	(4.5mm to 117mm optical, 234mm digital)

**Note – Non-interchangeable lens option*

System Specifications

System Type	5-axis gyro-stabilized
Azimuth Coverage	360° Continuous
Elevation Coverage	+30° to -195°
Roll Coverage	+/- 45°
Slew Rate	>55°/sec*
Max Slew Acceleration	100° / sec2

**Angènieux Lens Option Slew Rate <35°/sec*

Dimensions

Turret	19.8" x 14.9"
Lens Enclosure	8.5" (D) x 0.5" – 7.5" (L)
Auxiliary Control Unit	14" x 19" x 6"
Laptop Control Unit	17" x 8.75" x 1.8"
Cable Set	20' length

Weight

Turret	65-74 lbs.
Lens Enclosure	N/A
Auxiliary Control Unit	27 lbs.
Laptop Control Unit	5 lbs.
Cable Set	9 lbs.

Power

Input Voltage	28 VDC +/- 10%
Power – Quiescent	85 Watts
Power – Continuous	170 Watts
Power – Transient	230 Watts

System Interfaces

Digital serial	RS-232/422

Incorporated Camera Accessories

Sony HKC-T1500	Block Extension Adaptor
Sony RM-B750	LCD touch-panel screen

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