

Airborne video cameras

CAM series multi-camera units



Securaplane's CAM series fully integrated dual or quad airborne video cameras offer up to a 360° view for a variety of applications.

CAM series cameras are lightweight, offer simple antenna-like installation and aerodynamic design for low-drag noise-free flying. All models may be interfaced directly to a Securaplane security system and to all popular cabin entertainment systems and video-capable cockpit displays.

Models available

- CAM-10: four monochrome cameras
- CAM-11: color cameras forward and aft, monochrome cameras left and right
- CAM-12: color cameras forward and aft only
- CAM-14: four color cameras

CAM-11, -12 and -14 can be configured with different lenses to provide wide or narrow angle forward and aft views.

Key features

- Aerodynamic design
- Multiple cameras
- Fully integrated—no remote units
- Interfaces to VCU-05 or any aircraft-approved +12VDC power source
- NTSC video

Applications

- Inflight entertainment
- Safety and situational awareness
- Interfaces with a Securaplane aircraft security system to confirm detected intrusions

Installations

- Bombardier
- Dassault
- Gulfstream
- Boeing
- Hawker Beechcraft

Securaplane

Our product competencies and services:
Aircraft security systems | Airborne video cameras | Aircraft batteries | Battery chargers | Inverters | Converters | Wireless integration

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Specifications

All models	
Overall dim (HWD)	4.0 x 1.9 x 6.7 in (102x48x170 mm)
Drag/CD	1.5 lbs/.26 (est.)
Finish	Powder coated, white
Mechanical attach	4x 10-32 fasteners
Mating connector	MS3126F14-18S
Window	Fused silica, heated
Power requirements	12 VDC from VCU-05 or Securaplane-approved source.

Model	CAM-10	CAM-11-X	CAM-12-X	CAM-14-X
Part number	100-1007-01	100-1051-XX	100-1055-XX	100-1078-XX
Configuration	Quad, mono	Quad, color/mono	Dual, color	Quad, color
Max weight	1.75 lb (.79 kg)	1.85 lb (.84 kg)	1.65 lb (.75 kg)	1.85 lb (.84 kg)
Power consumption	15 w max, 8w nom	16 w max, 9w nom	16w max, 9 w nom	16 w max, 9 w nom
Horizontal field of view (approximate)	71.5° FWD / 71.5° AFT 115.5° LEFT /RIGHT	-01 31° FWD / 31° AFT -02 31° FWD / 88° AFT -03 88° FWD / 88° AFT ALL L/R = 115.5°	-01 31° FWD / 31° AFT -02 31° FWD / 88° AFT -03 88° FWD / 88° AFT (No L/R)	-01 31° FWD / 31° AFT -02 31° FWD / 88° AFT -03 88° FWD / 88° AFT ALL L/R = 88°

Camera specifications

Camera type	Color	Monochrome
Part number	100-1007-01	100-1051-XX
Signal	1 Vp-p, 75 Ω	1 Vp-p, 75 Ω
Television system	NTSC composite video baseband signal	EIA-170 monochrome
Imager	1/4" Interline transfer CCD	1/4" Interline transfer CCD
Resolution	768(H) x 492 (V)	510 (H) x 492 (V)
Picture elements	380K; 768 x 492	380K; 768 x 494
Sync	Internal	Internal
Gamma	0.45	0.45
Min illumination	>2 Lux (F1.2)	>0.1 Lux (F1.2)
Shutter	1/60-1/20,000 s AES	1/60-1/100,000 s AES
S/N ratio	>50dB	>50dB
White balance	N/A	Automatic

Camera views



Forward



Left



Aft



Right

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