

Airborne  
Video  
Cameras

# CAM Series

## Quad/Dual Camera Units

Securaplane's CAM series are fully integrated dual or quad airborne video imagers. These high-resolution units offer up to 360 degrees of viewing for a myriad of applications. The CAM-10 provides four directions of low-light monochrome imaging optimized for security, safety and/or ground taxi applications. The CAM-11 maintains the quad view functionality of the versatile CAM-10 but replaces the forward/aft monochrome views with high-resolution color imagers for in-flight entertainment use. The CAM-12 is a dual camera version of

the CAM-11 – forward and aft color viewing only. CAM-11 and CAM-12 can be configured with different lenses to provide narrow and/or wide angle fore and aft views.

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.

### FEATURES:

Interfaces to VCU-05 or any aircraft-approved +12VDC power source.

### APPROVED INSTALLATIONS:

- Bombardier
- Boeing
- Dassault
- Raytheon
- Gulfstream

### APPLICATIONS:

- **Entertainment**  
*High resolution color cameras facing forward and aft. (CAM-11 and CAM-12)*  
*Interfaces with existing cabin video systems*
- **Safety**  
*View the undercarriage of the aircraft, whether in flight or on the ground*
- **Security**  
*Interfaces with a Securaplane® security system to confirm detected intrusions*



## Specifications — CAM-10/11/12

Model:	CAM-10	CAM-11	CAM-12
Part Number:	100-1007-01	100-1051-XX (See matrix)	100-1055-XX (See matrix)
Description:	Camera Unit, Quad, Mono	Camera Unit, Quad, Color/Mono	Camera Unit, Dual, Color
Max. Weight:	1.65 lb. (.75 kg)	1.85 lb. (.84 kg)	1.65 lb. (.75 kg)
Configuration:	Quad Camera, Mono	Quad Camera, Color – Fwd/Aft Mono – Outboard (L/R)	Dual Camera, Color – Fwd / Aft
Dimensions: (HWD):	4.0 x 1.9 x 6.7 in. (102x48x170 mm)		
Drag/C <sub>D</sub> :	1.5 lbs / .26 (est.)		
Finish:	Powder coated, white		
Mounting:	4x 10-32 fasteners		
Mating Connector:	MS3126F14-18S		
Window Material:	Fused Silica		
Window Demisting:	Internal Heater		
Power Requirements:	12 VDC, 10w max.		
Horizontal Field of View:	>360° (Fwd/Aft 72°, Outboard 116°)	See Matrix	

Camera Specifications	Monochrome	Color
Video Output:	VBS, 1.0 Vp-p at 75Ω, Negative Sync	
Television System:	EIA RS-170 / NTSC Mono	NTSC 3.58 Color
Imager:	1/3 inch interline transfer	1/3 inch interline transfer
Resolution:	>550 Horz. TV Lines	460 Horz. TV Lines
Picture Elements:	380K; 768 x 492	380K; 768 x 494
Sync:	Internal	
Gamma:	γ=0.45	
Min. Illumination:	0.45 lux @f1.2	2 lux @ f1.4
White Balance:	N/A	Factory set to 5600°K (Outdoor)
Electronic Shutter:	1/60-1/180,000 s	1/60-1/10,000 s
S/N Ratio:	>47dB	50dB
Options:	Electrical Installation Kit / Cables Structural Installation Kit	

## Part Number / Field of View

Horizontal Field Of View

Part Number	Model	Camera Configuration	Fwd	Aft	Sides
100-1051-01	CAM-11-1	Color (Fwd/Aft), Mono (L/R)	31°	31°	116°
100-1051-02	CAM-11-2	Color (Fwd/Aft), Mono (L/R)	31°	88°	116°
100-1051-03	CAM-11-3	Color (Fwd/Aft), Mono (L/R)	88°	88°	116°
100-1055-01	CAM-12-1	Color	31°	31°	N/A
100-1055-02	CAM-12-2	Color	31°	88°	N/A
100-1055-03	CAM-12-3	Color	88°	88°	N/A

## Installation Pictures

