

## Airborne video cameras

# Cockpit door surveillance system (CDSS)



Securaplane's cockpit door surveillance system (CDSS) ensures that individuals seeking entry into the cockpit are authorized and not under duress.

This requires the ability to see the individual requesting entry and clearly identify that person in all cabin conditions (light, dark, movement, etc.).

The basic system consists of three cameras feeding a central processing unit. In turn this feeds video to the cockpit displays or can drive up to three monitors.

To meet all customer security needs, Securaplane's controller allows up to six camera images to be processed simultaneously.

The camera has demonstrated performance from 0.1 lux up to 150 lux using an automatic iris to compensate over the full light-intensity range. To achieve the low-light performance, Securaplane cameras feature integral infra-red illumination. The system processes raw video images to further enhance low-light performance.

Output video interfaces to the cockpit displays and is provided in both analog and digital formats.

## Key features

- High quality video sources with excellent low and bright light performance identifies entrants in all cabin conditions (light, dark, movement, etc.)
- Full motion video (30 frames-per-second)
- Video processing that minimizes lag from camera to display
- Flexible text overlays to enhance pilot cueing
- Meets comprehensive DO160 ruggedness requirements
- Can drive up to three monitors directly
- Recordable video

## Applications

- Security
- Identification
- Situational awareness

## Approved installations

- Airbus long range family: A330, A340
- Airbus A380
- Airbus single aisle family: A318, A319, A320, A321, ACJ

## Securaplane

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

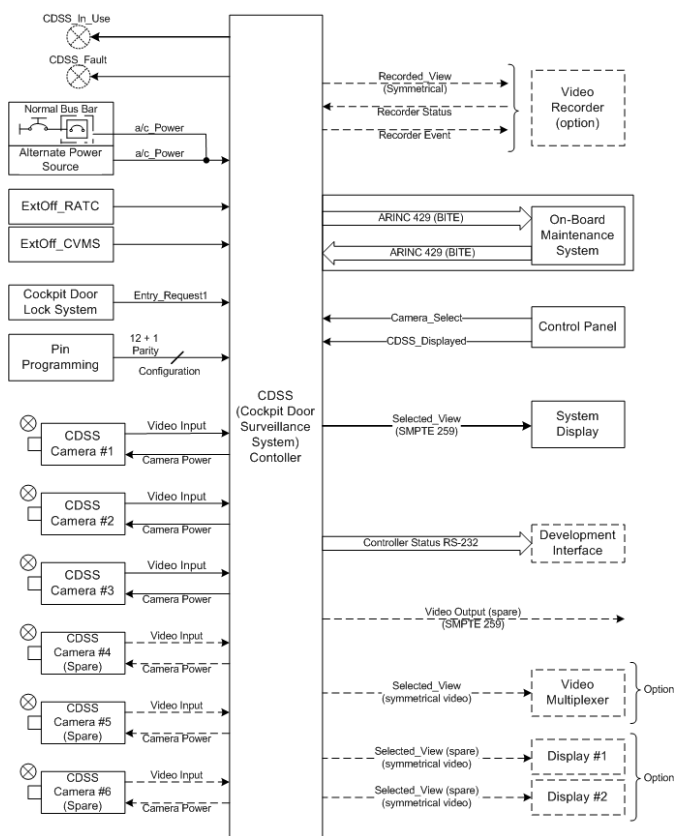
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### Specifications

	Reading light camera	Flush-mount camera	Door header camera	Controller assembly
<b>Part number(s)</b>	100-2513-xxx-yy	100-2511-xxx-yy	100-2510-xxx-yy	100-2500-0x (SA, LR) 100-2603-0x (A380)
<b>Size</b>	2.46 in diameter x 3.13 in l (63mm diameter x 79mm l)	2.76 x 2.19 x 3.58 inches (70 x 55.5 x 91 mm)	3.35 x 19.1 x 2.91 inches (85.2 x 485.5 x 73.9 mm)	2MCU ARINC 600
<b>Weight</b>	.3 lb (.139 kg)	.29 lb (.132 kg)	1.36 lb (.62 kg)	4.33 lb (1.95 kg)
<b>Imager</b>	1/4" CCD	1/4" CCD	1/4" CCD	For direct viewing of video on ARINC 817 compatible multifunction displays or on dedicated video display (NTSC/EIA)
<b>Pixels</b>	510 (H) x 493 (V)	510 (H) x 493 (V)	510 (H) x 493 (V)	Provides control and video processing of up to eight camera units.
<b>Resolution</b>	380 TV lines	380 TV lines	380 TV lines	Full BITE and Control Capability via AFDX or ARINC 429
<b>Shutter</b>	Auto .016 – .00001 sec.	Auto .016 – .00001 sec.	Auto .016 – .00001 sec.	
<b>Sensitivity</b>	.1 lux	.1 lux	.1 lux	
<b>Description</b>	IR illuminated camera, reading light form factor	Flush mount camera (no IR illuminator)	IR illuminated, cockpit door header beam form factor	

### System block diagram



Reading light camera



Flush-mount camera



Door header camera

### Securaplane

12350 N Vistoso Park Road  
Oro Valley AZ 85755  
USA

Tel: +1 (520) 297 0844  
Fax: +1 (520) 498 4924

www.securaplane.com  
www.meggitt.com

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