



communications
Aviation Recorders

AIRCRAFT CABIN SURVEILLANCE SYSTEM

Aircraft Cabin Surveillance System (CSS) is the first system of its kind to be certified by the FAA with an alert feature from the cabin to the flight deck and is designed by aircraft engineers specifically for aircraft applications. From design draft to aircraft installation and certification all components were designed to meet, or exceed, aircraft environment, specifications, requirements and reliability. This system meets and exceeds applicable RTCA/DO-160D requirements. The basic system comprises of two display monitors and two cameras. There is a key chain remote transmitter each of the cabin crew carries. When activated, a push to re-set "CABIN ALERT" light illuminates in the cockpit, via a discretely placed receiver.



- 5.6 Inch TFT LCD Screen
- 78,880 Pixels
- Enhanced For Aircraft Use
- Polarized Anti-Glare Display
- Display Screen with Polycarbonate Outer Vandal Guard
- Ruggedized Especially for Aircraft Use
- High Resolution 470 TVL
- Auto Switches to B&W Below 2 LUX and IR LEDs Come On Giving up to 30 Feet View in Total Darkness
- 92 Degrees Field of View

Aviation Recorders
P.O. Box 3041
Sarasota, FL 34230
Tel: (941) 371-0811
Fax: (941) 377-5591
www.L-3com.com

AIRCRAFT CABIN SURVEILLANCE SYSTEM

Display Monitor LCD

Display Size	14cm 5.6 in
No. Pixels	78,880
Dot Format (H x V)	320 x 234 dot RGB
Dot Pitch (H x V)	0.119 x 0.357mm
Active Area (H x V)	114.2 x 83.5mm
Input Signal	NTSC
Backlight Type	1CCFT
Brightness	300 cd/m squared before enhancements
Weight	2.4 lbs
Operating Temp	-10 to +80 degrees C
Storage Temp	-30 to +80 degrees C

Color CCD IR (Night Vision) Camera

TV System	NTSC
Image Sensor	1/3-inch Color Sony Super HAD CCD
Sync. System	Internal
Resolution	470 TL lines
Min. Illumination	0.8 Lux (IR OFF), 0.0 Lux (IR ON)
Lens/View Angle	3.6mm F2.0 / 92°
Electronic Shutter	1/60 1/120,000 sec
Auto Iris	A.E.S
Gamma Correction	0.45
Gain Control	AGC
Video Output	1.0V p-p differential, composite at 100 ohm
IR Illuminator	10 LED, 870nm, ±30° beam spread
IR Range	Up to 30 ft
Operation Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Power Supply	28 VDC
Power Consumption	1.7 W (IR OFF), 3.1 W (IR ON)

Cabin Alert Keychain Transmitter	Type	RF
	Range	500 Feet

Cabin Alert Receiver	Security	Unique 24 bit encoded key
	Alert Indication	Latched light

Cabin Alert Light	Lamp test	Press to Test
	Alert deactivation	Press to Reset

CERTIFICATION	STC Certificate:	ST01518NY
	Certificate Type Number:	A6WE
	MAKE:	BOEING / MCDONNELL DOUGLAS
	MODEL:	DC-9-10 THRU-50 SERIES, NON-EFIS DC-9-81/-82/-83/-87 SERIES

The technical information contained in the marketing brochure(s) does not contain "technology" as defined by the General Technology Note in Export Administration Regulations (EAR) Supplement number 2 to Part 744 and is, therefore, considered as publicly released as defined in Part 734.7(4).

Warranty 1 Year Warranty, see the current Price Catalog for complete warranty details.

"State of the Art" Camera & Display Monitor

Built in light sensor in the Camera automatically triggers infrared LED on below 2 LUX (1LUX=1Candlelight), even in total darkness (0 LUX) enables the flight crew to view the cabin in black and white. (Above 2 LUX it will be viewed in color). This is especially useful when cabin crew shuts off or dims lighting during night flight for passenger's comfort and convenience.

Optical grade polycarbonate Vandal Guard shields LCD for scratch resistance and provides durability.

Index matching, this is a broadband, multiply, anti-reflective coating to the display shield. By matching the refractive index of the display surface, it significantly reduces surface reflection by allowing light to pass through, substantially reducing washout and enhancing contrast, color saturation and view ability. This results in operation that appears to be two to three times brighter with less power.

Reflective Polarization. Normally a full 50% of display back light output is absorbed; usually more light is used to compensate this. Reflective Polarization reorients the existing light until it is in line with the polarizer increasing the display brightness by 45% and reducing glare without using more power, increasing heat or reducing viewing angle.

A Poron material seal gasket is introduced in the Display Monitor to eliminate harsh vibrations and to prevent liquid substance or foreign particle contamination.

These features are introduced for cockpit and cabin environment, and they also enhance the quality, reliability and durability of the system.



L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9100:2004 Rev. B Certified



communications

Aviation Recorders

For additional information contact:
L-3 Communications, Aviation Recorders
P.O. Box 3041
Sarasota, FL 34230
(941) 371-0811 Fax: (941) 377-5591
Or visit our Web Site at: www.L-3Com.com