

HD LCD Monitor

AD Aerospace's FV-0877 is an airborne HD LCD monitor and switcher designed to display and control images from external and/or internal HD-SDI cameras installed on an aircraft.

High-Definition Serial Digital Interface (HD-SDI) is one of a family of digital video interfaces, standardized as SMPTE292 by the Society of Motion Picture and Television Engineers. HD-SDI provides a nominal data rate of 1.485 Gbit/s. Although the HD-SDI interface is intended for 75Ω single ended coaxial transmission lines, the FV-0877 accepts video signals from HD-SDI cameras presented as balanced 100Ω HD-SDI inputs.

The FV-0877 HD Monitor, together with a FV-0477 Camera, form the DirectVu Camera System (DVCS). The DVCS is used as a means to comply with CFR 25.785 requirements, on the Boeing 777. The DVCS is designed to provide visibility of a minimum of 50% of passengers in premium class zone to seated cabin crew during Taxi, Take Off and Landing.

Specifications

Size	8.82" x 7.48" x 2.46" (224mm x 190mm x 62.5mm)
Weight	1600g (3.27lbs) Maximum
Screen Size	9-inch Diagonal
Display Resolution	1280 x 768 pixels
Brightness	350 cd/m ²
Viewing Angle	85 degrees
Response Time	22ms
LED Backlight Life	70,000 Hours
Controls	<ul style="list-style-type: none"> • ON/STBY switch with LED indicator mounted on chassis • Tactile switches providing Contrast + / - Control • Tactile switches providing Brightness + / - Control

Internal Aerospace Camera

Specifications continued

Video Signals Processor	Performs analytics to determine Brightness, Contrast and Scene Content and calculates the optimum settings for the FV-0477 Camera, controlled through RS-485 output Serial Link
Connector Types	MIL-DTL-38999
Connector	There are three external electrical interfaces, J1 & J2 (HD-SDI Video Quadrax) and J3 (Power and RS485).
Power	Maximum power requirement: 19.6W
Current	Maximum current draw: 700mA @ 28V dc
Power Factor	Powered from 28V DC
Operational Temperature Range	-15°C to +55°C.

