CASE STUDY

VIP Passenger Cabin Surveillance Solution

B/E Aerospace, a leading global aerospace cabin interiors design and manufacturing company, was commissioned by Qatar Airways to reconfigure the premium cabin of the their Boeing 777 fleet to include new monuments which resulted in areas of the cabin that were not visible to cabin crew during taxi, take-off and landing phases of flight. A solution was required to restore visibility of these obscured areas during these crucial stages of flight so that the cabin crew would be able to ensure that all passengers were seated, as is mandated at these times.

The AD Aerospace VIP Passenger Cabin Surveillance Solution was proposed which consists of an FV-0477 HD-SDI Camera and an FV-0877 HD Monitor. Due to the internal passenger cabin configuration, two cameras and two monitors were proposed, with the cameras being mounted in the appropriate bulkhead locations so as to provide the required field of view, and the monitors being located so as to be visible from the forward cabin crew seats.

FV-0477
Video Camera

FV-0877
HD Monitor

B/E Aerospace selected this solution to complement their cabin design for Qatar Airways and thereby introduced a new cabin design with the means to provide sufficient levels of cabin crew visibility to meet mandated requirements. Qatar Airways was pleased with the result and installed the modified cabin with associated AD Aerospace system across their entire Boeing 777 fleet.

phone: +44 (0)1928 280300 email: enquiry@ad-aero.com web: www.ad-aero.com

address: Electra House, Pepper Rd, Hazel Grove, Stockport, Cheshire, SK7 5BW

The Technical Details

The FV-0477 HD Camera operates down to very low light levels without the need for supplementary infra-red illumination and it is designed to be covert so as not to be intrusive or easily visible to passengers in premium cabins. The camera transmits an HD-SDI video signal to the FV-0877 HD Monitor, and these two units were designed to be installed together on the Boeing 777 aircraft to assist in providing compliance with 14 CFR 25.785, with the result that the system was designed to provide seated cabin crew with visibility of at least 50% of the passengers in a premium class cabin zone during taxi, take-off and landing phases.

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