

Program Description

F-35 Video

The laboratory and flight test demonstrations are to provide risk reduction for an F-35 Block Full Motion Video (FMV) Capability. The FMV data is being provided by the F-35 Electro Optical Targeting Sensor (EOTS) over the existing Fibre channel. The EOTS video data will be compressed in software and routed to a to an L-3 Vortex transmitter. The data will be encrypted in a KGV-135A crypto module in the Vortex transmitter. The encrypted RF video data out of the transmitter will be routed to a Power Amplifier (PA). The output of the PA we be routed to a production F-35 antenna. Depending on the frequency desired, either L or S band, the RF video signal will be routed to the correct antenna. On the receiver side, the RF video will be received by an L-3 ROVER 5 receiver. The data will be decrypted in the ROVER 5 and displayed to the screen for user verification.