Ground Manoeuvring Solution

AD Aerospace provide a system to aid in ground manoeuvring. A tail fin mounted camera provides real-time monitoring of the wingtips, while belly mounted cameras provide visibility of the landing gear, engines, ground conditions and proximity to the pavement edge - aiding manoeuvring during taxing.

System Specifications	
• External Cameras, hermetically sealed, dry nitrogen purged and aerodynamically shaped to allow water droplet removal. • Colour/Monochrome; CCIR or EIA • Hermetically sealed and dry nitrogen purged cameras • **Various Filed of View (FoV):** Ranging from 19 to 116 degrees • Maximum 3W per camera from 28V d/c supply • Light Control by auto shuttering means no moving parts • Live video stream on EFB or independent LCD monitor • Video server accepts up to 8 video streams • Video stream accessible through an Ethernet connection and stored on a removable flash storage device.	
Weight	**Camera:** 350g **LCD Monitor:** 900g **Video Transmission/Storage Unit:** 1200g
System Components	**Camera:** FV-0315 **LCD Monitor:** FV-0834 (4" inch) or FV-0835 (6" inch) **Video Server:** FV-0610 or FV-0710
Camera Positioning	The below are suggested camera positions, to aid in ground manoeuvring and avoid ground collisions: • Tail Fin Camera, provide visibility of the wing tips and forward vision • Forward lower fuselage Camera, provide forward downward vision • Lower fuselage Camera, provide visibility of the nose landing gear • Lower fuselage Camera, provide visibility of the main landing gear • Cameras in suitable locations to provide visibility of engines and wing leading edges, left and right • Camera in suitable location to provide visibility of tail fin

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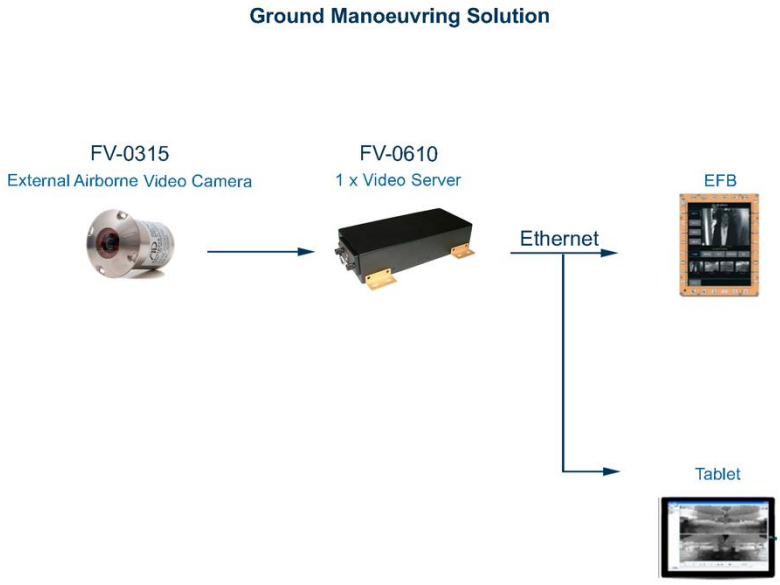
System Architecture:



Digital Video Server Specifications

- Live and Recorded video stream accessible through three Ethernet connection.
- Capable of streaming digital video over IP Ethernet from up to 8x balanced video signals.
- Electronic Flight Bag compatible.
- Removable Flash Storage.
- Continuous recording or capable of performing VMD (video motion detection) analysis and recording the relevant footage for review.
- Analogue video output, which can be controlled through three discrete inputs.
- Integrated status indication LEDs.
- **Power Consumption:** 10W Max

Environmental Camera Specifications

- Camera runs directly from 28V aircraft supply.
- Hermetically sealed and dry nitrogen purged cameras.
- Integrated 10 Kapton heater which allows for de-misting and de-icing function.
- **Resolution Colour:** Greater than 540 TV Lines
- **Resolution Monochrome:** Greater than 600 TV Lines
- **Sensitivity Colour:** Better than 1.0 Lux
- **Sensitivity Monochrome:** Better then 0.1 Lux

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