



Photo courtesy Airbus

## Taxi-aid and Landscape Camera Systems

### Airbus A350

UTC Aerospace Systems provides a Taxi-aid Camera System to enhance safety during taxi and a Landscape Camera System that produces high quality images for In-Flight Entertainment (IFE) system viewing. Both are certified systems on the Airbus A350 platform.

The Taxi-aid and Landscape Camera Systems enhance safety during taxiing. The taxi-aid system includes both a belly mounted camera for viewing of the nose landing gear and vertical stabilizer mounted camera for viewing of the main landing gear, wings and fuselage. The landscape camera system provides an image directly downward from the aircraft and includes a flush-mount high resolution camera for high quality images for in-flight entertainment (IFE) system viewing. The landscape camera system is co-located with the belly taxi-aid camera for minimal fuselage impact and sharing of common electronics. Heated sapphire camera windows are designed for impact and abrasion resistance.



# Taxi-aid and Landscape Camera Systems

## Airbus A350

### Equipment

- Concentrator and Multiplexor for Video (CMV) is standard equipment and routes all video signals on the aircraft
- Belly mounted and vertical stabilizer mounted cameras
- Landscape Camera System includes flush-mounted high resolution camera

### Features & Benefits

- Taxi-aid system enhances safety during taxi
- Heated sapphire windows are designed for impact and abrasion resistance
- Landscape camera provides high resolution camera for high quality images on the IFE system and is co-located with belly taxi-aid camera for minimal fuselage impact
- Cameras adjusted by software, eliminating manual adjustment on assembly line
- Certified systems for the A350 platform

### Camera Specifications

<b>Video Signal</b>	ARINC 818, 30fps
<b>Format</b>	Color
<b>Resolution</b>	1280 x 800
<b>Sensor</b>	1/4 in. (0.6 cm) CMOS
<b>Field of View</b>	FTAC: Horizontal 80°, Vertical 40° BTAC: Horizontal 80°, Vertical 40° LCS: Horizontal 20°, Vertical 12°
<b>Power Consumption</b>	45 W with Heater on 5 W with Heater off 115 VAC, 400 Hz
<b>Weight</b>	LCS: 2.2 lbs. / 1.0 kg FTAC: 4.3 lbs. / 1.95 kg BTAC: 3.6 lbs. / 1.65 kg
<b>Operating Temperature</b>	-67°F to 158°F / -55°C to +70°C

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### Shipset Part Numbers

P/N	Description
8410L1-1	Landscape Camera (LCS)
8410M1-1	Taxi-aid Camera, Vertical Stabilizer (FTAC)
8410N1-1	Taxi-aid Camera, Belly (BTAC)
8430K1-1	Concentrator and Multiplexor for Video (CMV)

### Shipset Configurations

	A350-900	A350-1000
Concentrator and Multiplexor for Video (CMV)	✓	✓
Taxi-aid Camera, Vertical Stabilizer (FTAC)	Optional	✓
Taxi-aid Camera, Belly (BTAC)	Optional	✓
Landscape Camera (LCS)	Optional	Optional

### CMV Specifications

<b>Control Interfaces</b>	AFDX (dual redundant) 5 discrete inputs 3 discrete outputs
<b>ARINC818 Video In</b>	3.2 Gbps (4X) 1.1 Gbps (2X)
<b>ARINC818 Video Out</b>	3.2 Gbps (5X)
<b>Ethernet</b>	10/100 Mbps (3X)
<b>Video Decoding (Surveillance Video)</b>	H.264 CBP
<b>Video Encoding</b>	H.264 CBP, 1280 x 720
<b>Power Consumption</b>	30 W, 28 VDC
<b>Weight</b>	9 lbs. / 4.1 kg
<b>Operating Temperature</b>	5°F to 158°F / -15°C to +70°C



**UTC Aerospace Systems**