

Digital Camera Interface [DCI] for UltraCam



The interface for CCNS4 / UltraCam:

IGI's *Digital Camera Interface [DCI]* provides all functions to operate digital aerial cameras with the well known CCNS4 (Computer Controlled Navigation System) guidance and flight management system for aerial survey flight missions.

Full compatibility with IGI's *AEROcontrol* system is realized to determine the EO-parameters (x, y, z, phi, omega and kappa) of each image.

The CCNS4 is not only able to trigger the camera and handle the feedback signal. It provides the possibility to read out all important status information from the camera.

Key Features & Benefits:

- Triggers the camera at pre-planned positions
- Observes camera operation and status
- Captures the exposure mid-pulse and the mid-pulse correction time
- All information displayed on CCNS4 monitor
- Provides the camera mount with crab information
- Start/stop of mount stabilization at beginning/end of each planned flightline
- Provides the UltraCam with time/date, project, position and track information on every exposure from *IGIplan* mission planning software
- Synchronization of exposure numbers
- Gives velocity and height information for image motion compensation
- Firmware updates made easily with an integrated CF card slot
- Optional: leveling of the GSM3000 mount with real-time data from the *AEROcontrol*

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SPECIFICATIONS DCI for UltraCam	
Dimensions:	
Length	50 mm
Width	140 mm
Height	108 mm
Weight	0.5 kg
CF card slot	ServiceCard
Operating temperature	0°C to + 40°C
Storage temperature	-20°C to +70°C
Humidity	95% non-condensing
Standard cables:	
CCNS4	4 m
AEROcontrol	4 m
UltraCam Sensor Unit	1.5 m
UltraCam Sensor Control Unit	3 m
GSM3000 / PAV30	1.5m
Camera mount options:	T-AS PAV30 GSM3000
Leveling option	x ¹ x
Drift correction	x x x
Gimbal encoder	x x x
Gyro Stabilization Control	x ¹ x x

1: T-AS leveling or Gyro Stabilisation Control