

CCNS 5™

Computer Controlled Navigation System - 5th Generation



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CCNS 5 - The new flying experience

IGI, the first company to introduce a GPS based flight management system or Computer Controlled Navigation System for survey flights worldwide, is taking the next step and unveils a brand new, next generation CCNS system – version 5.

The CCNS 5 system is a guidance, positioning and sensor management system for aerial survey missions. It is smaller, lighter and richer in functionality than its predecessor.

CCNS 5 has one 6.5 inch display with a couple of control buttons. With an extra bright, sunlight readable display the system is state-of-the-art in flight management equipment. Designed as a mobile system the pilot can easily use his CCNS 5 on different installations.

Available display information can be personalized in size and colour for different users or scenarios. Different map information can be displayed in the background for easy orientation during flight.

The system can operate all common sensor types as digital & analog aerial camera systems and LiDAR & SAR systems. Starting with support for generic cameras there are different sensor packages available. In this way the system can be optimized for your sensors and will save you money.

Perfect Triple: IGIplan - CCNS - AEROcontrol

Together with *IGIplan* a complete and comprehensive solution for mission planning, aircraft guidance and sensor management is available.

AEROcontrol is IGI's GNSS/IMU system for the precise determination of position and attitude of an airborne sensor. All operations and the management of the *AEROcontrol* system is controlled via the CCNS 5. The post-processing software uses a forward/backward Kalman filter algorithm to achieve optimal results.

Sunlight Readable Display

Customizable User Interface

Mobile Solution

CCNS 5™ - Computer Controlled Navigation System

INTERFACES



Display

- 6.5 inch (17cm diagonal)
- 1024 x 768 pixel resolution, 16M colours
- LED backlight and **Super Transmissive Natural Light Technology** guarantees high brightness and contrast in every situation. ST-NLT reduces the surface reflections of ambient light and keeps the screen readable in bright sunlight.
- Viewing Angle: 80° up, left and right, 60° down

GPS Receiver

Internal: 50-channel GPS L1 C/A Code & SBAS receiver
Supporting WAAS / EGNOS / MSAS
External: *AEROcontrol* or external GNSS receiver

Communication

Ethernet: Fast Ethernet LAN Port
Serial Port: RS232
Discrettes: 3 TTL-Level Ports

Data Storage

SD Card

Options

- Position and attitude determination system *AEROcontrol*
- Sensor packages for different kind of sensor types
- Gyro stabilized mount control
- Second screen unit

Suitable Software

IGIplan - Mission Planning Software
AEROoffice - Geo-Referencing Post-Processing Software

SPECIFICATIONS

Physical Dimensions	
Height:	125 mm (4.92 inches)
Width:	175 mm (6.89 inches)
Depth:	35 mm (1.38 inches)
Weight of System	0.8 kg (1.7 pounds)
Power Consumption at Full Performance	14W @ 20 ... 30 VDC
Operating temperature	0 ... +50°C (32 ... 122° F)
Storage temperature	-10 ... +80°C (14 ... 176° F)



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