

CCNS-5™

Computer Controlled Navigation System - 5th Generation



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 the next generation CCNS system - version 5.

The CCNS-5 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 with its 6.5 inch display that provides an extra bright, sunlight readability is state-of-the-art in flight management equipment. It is designed as a mobile system to be easily used on different installations.

CCNS-5's user interface and background map information can be personalized based on your scenario for easier use and orientation during your flight.

The system can operate all common sensor types as digital aerial camera systems, LiDAR and 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.

Sunlight Readable Display

Customizeable User Interface

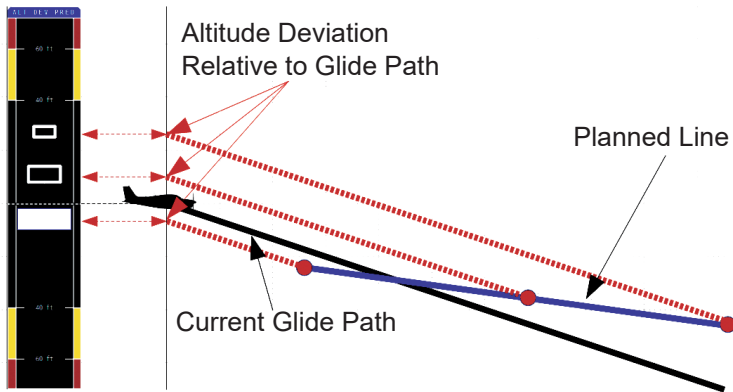
Terrain Following

Perfect Triple: IGIplan - CCNS - AEROcontrol

Together with IGIplan a CCNS-5 provides a complete and comprehensive solution for mission planning, aircraft guidance and sensor management.

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

CCNS-5™ - Computer Controlled Navigation System



CCNS -5 Terrain Following

- Altitude Deviation (with warn levels)
- Ground Speed Deviation (with warn levels)
- Time to End of Line
- Cross Track Deviation
- Track Deviation

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

Communication

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

GPS Receiver

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

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 - GNSS/IMU Post-Processing Software

SPECIFICATIONS

Physical dimensions:

Height: 125 mm (4.92 inches)
 Width: 175 mm (6.89 inches)
 Depth: 35 mm (1.38 inches)

Operating temperature: 0 ... +50°C (32 ... 122° F)
 Storage temperature: -10 ... +80°C (14 ... 176° F)

Weight of the system:
 0.8 kg (1.7 pounds)

Power consumption at full performance:
 14W @ 20 ... 30 VDC



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