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.

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**

**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

**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

**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