

DigiCAM™ - Components Overview

DigiControl SMU



The *DigiControl SMU* manages and controls the camera unit during the airborne mission. The high resolution touch-screen display provides a comfortable graphical user interface.



The *DigiCAM* system of IGI is based on a professional high-resolution camera with upcoming 60 Megapixel. The system is available with color (RGB) or color-infrared (CIR) filters and a variety of calibrated lenses with different focal length. The *DigiCAM* integrates perfectly with IGI's LiDAR system *LiteMapper*.

Camera Lenses



IGI offers a variety of different lenses. Two filters are available for color mode (RGB) and color/infrared mode (CIR). Lenses with: 28, 35, 50, 80, 100, 150, 210 and 300 mm focal length are available.



CCNS4 Computer Controlled Navigation System



The *CCNS4* is the guidance, positioning and sensor management system for aerial surveys with an integrated GPS receiver and antenna.

The system is operated easily through the Command & Display Unit.



Storage Units



Each *DigiCAM* system comprises a hot swap Solid State Disks. With no moving parts there is no limit in altitude and no data loss due to vibration.



AEROcontrol DGPS / IMU System



AEROcontrol is the solution for the precise determination of position and attitude of an aerial sensor. *AEROcontrol* is based on differential GPS (DGPS) and Inertial Measurement Unit (IMU-IIe) using fibre-optic gyros with a data rate of 400 Hz.



Mount Adapter



IGI offers two different mount adapters fitting a variety of mounts. Both build of aluminium for an easy installation. A mount adapter is available for the Somag GSM3000, Wild/Leica PAV 10/20/30, Zeiss-Jena LMK1000/SM2000 and Intergraph's T-AS. Up to four camera units can be installed in the mount adapters.



TerraPhoto



Software to generate orthorectified aerial images taken during an airborne mission.

OrthoMaster

Professional software for rigorous ortho-rectification of digital imagery, offering high degree of processing automation and true ortho capabilities.

OrthoVista

The leading orthophoto mosaicking software, automatically adjusts and combines orthophotos from any source into one seamless, color-balanced mosaic.



GSM3000 + Precise Leveling



The Gyro-Stabilized Mount is a platform for stable support of aerial equipment. It compensates the rotations (roll, pitch and yaw movements) of the airplane during flight.

The GSM3000 retrieves leveling data from IGI's leveling interface which is connected to the *AEROcontrol* system for highest precision.

