



## **Selkirk Remote Sensing Ltd.**

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## **TECHNICAL SYSTEMS BRIEFING**

### **Aircraft**

Type	Piper Navajo, turbocharged, w/ long range fuel tanks
Working Altitudes	Maximum - 24,000 feet, IFR capable
Crew	One pilot and one camera operator, co-pilot or trainee may be carried

### **Cameras**

Drive Unit	Wild Leica RC20 with Forward Motion Compensation (FMC)
Lenses	f/4 maximum aperture 153 mm focal length with 2003 Leica calibration 303 mm focal length with 2001 NRC Category A calibration

### **Camera Leveling**

Automatic under PC Control, Manual Backup

### **Navigation and Photo Control**

Proprietary software operating on a modified PC attends to automatic camera leveling, eliminating drift, and generating velocity/height signals to operate the FMC. This software in combination with a Novatel GPS receiver provides flight line navigation and triggers the camera at predetermined stations. The uncorrected position and GPS-time is logged at the time of exposure. A video system is used as a backup for navigation, drift and camera station control.

### **Film Processing**

All black-and-white films are processed in house using a Kodak 11CM Versamet. The processor is reserved exclusively for film products to eliminate contamination from paper products. All colour films are processed at HAS Images in Dayton, Ohio.

### **Annotation**

Film is annotated with a CAD driven plotter. This permits complex, low-cost customized annotation for each client.

### **GPS for Perspective Centre Recovery**

Two Novatel Millennium dual-frequency receivers and the network of BC Active Control Stations allow for recovery of the coordinates of each perspective centre with precisions of 15 cm RMS or better. Processing is completed using GrafNav software by Waypoint Consulting Inc.