

MONITEQ LTD.

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Company background.

MONITEQ, an innovative high-technology company, specializes in the development and application of electro-optical remote sensing instruments for a wide range of resource management, mapping and environmental applications. The company provides both the hardware to acquire the data and the software to subsequently analyze it. Complete contract research and development capabilities allow the company to satisfy customer requirements. Consulting services are also offered. MONITEQ has exported its products and services throughout the world.

Products. MONITEQ's products include the following:

PMI — The airborne programmable multispectral imager (PMI) developed by MONITEQ measures the low radiance light fields characteristic of water scenes. It has very high spectral resolution (2.5 nanometres) over 288 bands. The imager is based on two-dimensional CCD technology and has been operational since 1983. PMI provides shallow water depth mapping, bottom type classification and various water quality parameters. Among its land applications are geobotanical and geological mapping, and vegetation, stress, forestry and crop management. Defence use includes border surveillance, camouflage detection, trafficability studies and mapping.

AIR II — The airborne imagery acquired with the PMI can be accurately positioned with a MONITEQ-developed geometric correction software system, AIR II, allowing different flight lines to be co-registered and imagery integrated with existing geocoded databases.

GASPIIS — Another MONITEQ airborne remote sensor, GASPIIS, measures hydrocarbons and other gases with absorption features in the thermal infrared (IR). Applications include gas pipeline and oil spill monitoring, chemical warfare agent detection, chemical leakage and perimeter monitoring.

The Canadian-developed Fluorescence Line Imager (FLI), or programmable multispectral imager, represents a major advance in capabilities for shallow water depth mapping, bottom type classification, water quality parameters, geobotanical and geological mapping, and vegetation, stress, forestry and crop management.

