

ITRES RESEARCH LIMITED

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Product/Service: ITRES Research Limited is a private corporation which has been developing high quality electro-optical instruments for the scientific and remote sensing communities for 12 years. The fully Canadian owned company is at the forefront of electro-optics technology. ITRES conducts research and development in applications of charge coupled devices for cameras and imaging systems which operate in visible light, ultraviolet or near infrared ranges. ITRES has special expertise in digital electronic camera systems and charge coupled device (CCD) technology. Applications include remote sensing, x-ray detection, ultraviolet, infrared and low light level imaging and bioluminescence studies. The casi (Compact Airborne Spectrographic Imager) is the company's feature product, with applications ranging from agriculture, forestry and land use, to oceanographic, laboratory and environmental impact studies.

Keywords: Remote sensing, spectral, imaging, multispectral, imaging spectrometer, imaging spectrograph, pushbroom imager, CCD.

Recent Successes: The first casi prototype was ready for flight in 1989. Since that time, the casi has been further upgraded and refined. Nine commercial instruments have now been sold or leased worldwide and are being used in a variety of applications including assessing fish stocks off the coast of Canada and examining industrial development impacts upon Alaska's fragile North Slope.

In 1990, ITRES Instruments, a wholly owned subsidiary of ITRES Research, was formed to handle the production, marketing and applications development of the casi. Employing a staff of five, and the production, marketing and applications development of the casi. Employing a staff of five, and technically supported by the parent company, ITRES Instruments offers the casi for purchase, lease and short-term rental and engages in proof-of-concept casi missions using its own twin-engine Cessna or customer-supplied aircraft. During its first season, the casi was used in over thirty projects in three different countries. Most recently, casi sales have been completed in Germany and the United States.