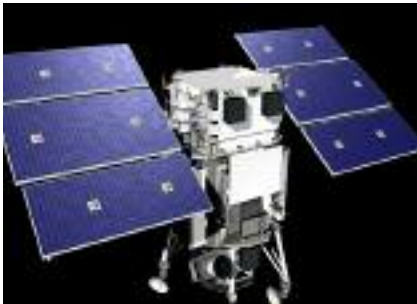




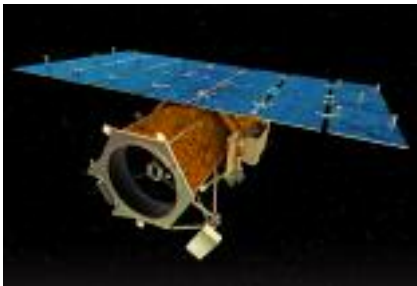
ITT

Engineered for life

Total Imaging Provider Commercial Remote Sensing Systems



The imaging sensor for the next-generation WorldView-1 satellite was provided by ITT.



ITT will provide the imaging system for the GeoEye-1 satellite.

For over 50 years, ITT Space Systems Division has successfully designed and built high-performance spaceborne imaging systems. We have also processed that imagery, generated value-added information products, and delivered information products via the Internet and other media. Today, ITT can do the same for you.

Payloads

As a total imaging provider, ITT will work with you from start to finish – starting with building your payload to distributing your images on the Internet, to complete systems integration and test.

Do you have a unique imaging problem that needs a unique solution? Look no further than ITT. Our solution development started during the cradle of spaceborne imaging with the Lunar Mapper. At that time, the ITT created a unique imaging solution that not only took pictures but developed and transmitted them back to earth for analysis.

ITT designed and built the imaging payloads – the "eyes" of the satellite – for GeoEye's IKONOS and DigitalGlobe's QuickBird satellites. Today, ITT continues to lead innovation in the custom payload business with systems for the NextView program. ITT built the imaging sensor for DigitalGlobe's next-generation WorldView-1 satellite. This sensor represents a breakthrough in size, weight, power and imaging performance over the previous generation space imaging systems. ITT is also building the imaging system for GeoEye's GeoEye-1 satellite. This satellite will capture high-resolution images smaller than one-half meter.

ITT has over 300 design and manufacturing engineers ready to custom fit a payload for your particular needs.

Commercial Remote Sensing Systems

Imaging Subsystems

If you are looking to capture and process high-quality panchromatic, multi-spectral or hyper-spectral imagery in your next air or spaceborne remote sensing system, talk to the imaging specialists at ITT.

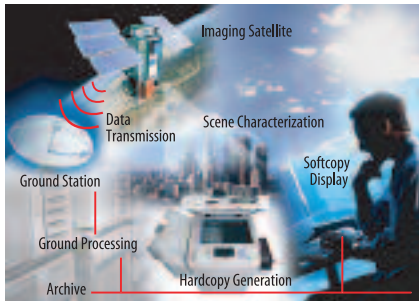


Image Chain Analysis requires a complete understanding of the entire imaging process, so that the image quality of the final product can be optimized.



WorldView-1 satellite

Our technical capability to fabricate precision optics quickly, design the focal plane in-house, and integrate the electronics have enabled us to deliver systems for test in less than three years.

Our subsystems include:

- Design and fabrication of space-qualified focal plane sensors for capture of high quality Earth imagery
- Design of the processors and electronics that digitize and compress the imagery
- Test and verification of all processing components
- Integration of the system, and qualification of your payload
- Delivery of the desired performance on a fixed price and schedule

Our Sensor Technology

ITT space-qualified sensors feature charge-couple device technology to convert light to discrete electronic charges within each pixel. Our ASIC signal processors condition the analog signal, and digitize the voltage based on the light intensity that hits each pixel. Finally, our data management subsystem compresses the data for fast transmission to ground while preserving resolution and image information.



Image System Analysis Services

ITT can identify all the relevant factors that will affect your system imagery – from the moment an image is captured to its final output as soft or hardcopy. Analysis of these factors enables us to produce demonstration pictures that accurately simulate system performance.

If you are looking to assure image quality for your next-generation remote sensing payload, talk to ITT. Our image scientists and engineers can analyze and simulate how your digital imaging system will perform before it is even built.

Systems Integration

ITT offers one-stop shopping. We design, build, integrate and test commercial remote sensing payloads with half-meter panchromatic and multispectral for domestic customers, and half-meter panchromatic and two-meters multispectral for international customers.

ITT provides a full range of remote sensing and GPS navigation solutions. For further information, contact us at:

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