

APEX™

HIGH RESOLUTION GROUND SYSTEMS

PRODUCT OVERVIEW

SeaSpace's Apex™ high resolution ground system is a complete, integrated, low-cost ground station for receiving and processing data from today's constellation of government and commercial earth observation satellites. SeaSpace currently supports reception and processing of radar and electro-optical image data from the following satellites:

- Synthetic Aperture Radar (SAR): *Radarsat-1,2, Envisat-ASAR, ALOS-PALSAR, ERS-2, JERS, and TerraSAR-X*
- Electro-Optical (EO): *SPOT-4, EROS-A,B, Resourcesat-1,2, Cartosat-2,2A,2B, Aqua/Terra-MODIS, Envisat-MERIS, and ALOS-PRISM, AVNIR*
- Planned support for other missions includes: *Worldview-1,2, COSMO-SkyMed, GeoEye-1, Kompsat-2,3,5, and LDCM*

The basic system consists of a tracking antenna, RF/IF subsystem, and SeaSpace's comprehensive family of imagery product processors for the creation of image products. The Apex ground system is designed to be scalable and extensible to easily accommodate unique performance, site, or future requirements such as larger antennas, additional sensors, integration with existing systems, or scalable computers for faster processing.

KEY FEATURES

End-to-end ground station solution in a single, integrated system

- Modular design allows upgrade of an existing facility

Multi-mission satellite support

- Receive and process multiple sensors in a single facility
- Easily upgradeable to support new missions and sensors

Comprehensive software control of entire workflow

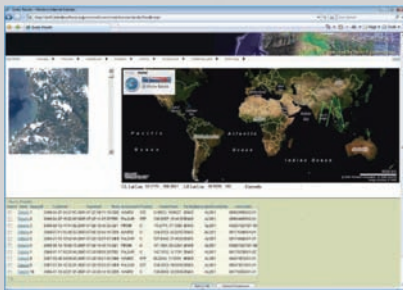
- Consistent, easy-to-use GUI for all processes
- Fully automated for minimal operator intervention

Uses industry standard PC's

- Low entry costs – easily expandable
- Windows and Linux operating systems
- .NET GUI for remote operations

Worldwide installations with satisfied customers

- ISO 9000/9001 Certified



APEX™ Commander GUI



6.1m AXIOM™ antenna



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EARTH ON DEMAND



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SYSTEM SPECIFICATIONS

SeaSpace offers an array of antenna options - from SeaSpace's own AXYOM™ antennas (ranging from 4.5 m to 6.1 m) - or partnerships with other antenna manufacturers to provide antennas up to 13 m. Mobile and radome configured units are available. The Apex™ ground system offers fully automated operation and control using SeaSpace's Apex Commander management system. Apex Commander is a flexible and complete solution with a consistent, easy-to-use graphical user interface. Apex Commander supports administrative and end-users via a .NET-based GUI accessible over the internet.

Apex Commander integrates powerful and industry-leading technologies such as Microsoft® Bing Maps, Microsoft® SQLServer™, Analytical Graphics STK, and Symantec™ Backup Exec.

World-class SAR and optical image processing systems, supporting Level 0 through Level 2 products, are an integral component of the Apex ground system. Processing systems for all sensors produce standard, certified image products. The Apex ground system is fully upgradeable to easily add processing for new satellites as they are launched.

Additional, application-specific processing chains are also available to support intelligence solutions such as:

- Maritime surveillance
- Radar exploitation
- Base mapping

The Apex ground system utilizes industry-standard Windows and Linux operating systems on PC's, XML data protocols, Ethernet and TCP/IP communications, and .NET GUI's. An embedded SQLServer RDBMS completes the package providing for imagery catalog browse and query. Apex ground systems are in operation at a number of ground station locations around the world. SeaSpace offers complete installation, training, and support services and has earned a reputation for providing high quality, state-of-the-art ground systems at exceptionally low cost. SeaSpace systems are designed by, and for, remote sensing professionals.

Apex™ Commander provides a comprehensive set of tools for:

- Acquisition planning
- Antenna scheduling and control
- Data ingest
- Image processing
- Archive population
- Browse image and meta data creation
- Image cataloging
- Product ordering

