



3.7M GEO GROUND STATION EODS-G3700 SERIES

PRODUCT OVERVIEW

The 3.7m GEO Ground Station is configured with a one-axis antenna and receiver for the reception of real-time satellite data from GOES, MSG, MTSAT, and FY2C satellites. It includes all the necessary proprietary hardware and proven TeraScan® software for automatic reception, processing, and visualization of the resulting products.

SeaSpace has accumulated over 25 years of experience in the design, manufacture, and maintenance of its TeraScan® satellite reception and processing systems, with hundreds of systems operating within mission-critical organizations in over 35 countries on all seven continents.

Through its open architecture and a sophisticated Application Program Interface (API), TeraScan® allows users to script their own production modules and create external applications. In short, it gives users complete control of the appearance and product generation capabilities of the system without sacrificing robustness or automation.

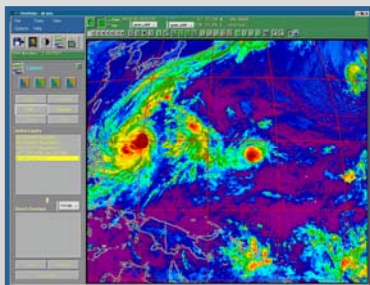
TeraScan® performs automated image navigation and geolocation for every major remote sensing satellite. A World Vector Coastline database and the TeraNav interactive navigation tool is included with each system.



3.7m GEO Antenna



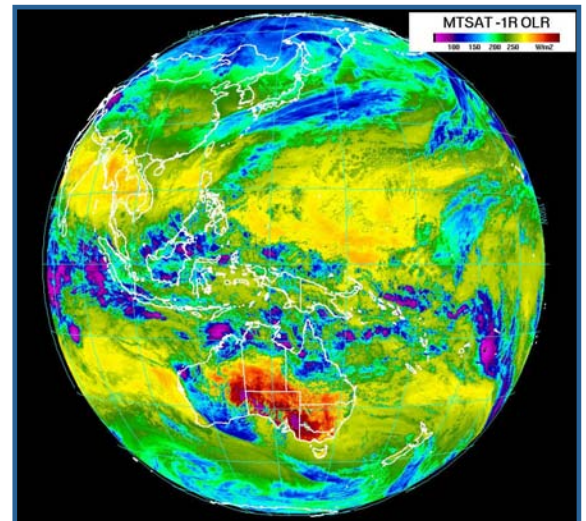
Acquisition Module



TeraScan® Analysis GUI

KEY FEATURES

- Easy to install, operate and maintain
- High reliability for mission critical organizations
- End-to-End system solutions - Turn Key System
- Automated capture and processing 24/7
- Low maintenance cost and power consumption
- Environmentally friendly
- Remote Access Control



Data Captured and Processed by TeraScan®

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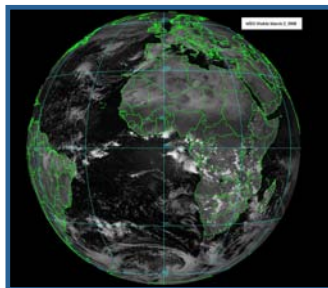
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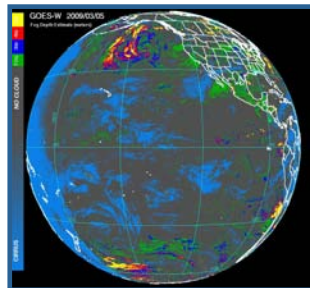
SYSTEM SPECIFICATIONS

Reflector		Feed	
F/D Ratio	0.37 ratio	Construction	Scalar Waveguide
Surface Geometry	Parabolic	Polarization	Linear
Effective Diameter	3.7 m	Feed Geometry	Prime Focus
Surface Tolerance	0.025 inches	Input Frequency	1681-1701 MHz
Material	Glass fiber reinforced polyester	VSWR	1.5 : 1 ratio
LNA / Downconverter		RF Performance	
Type	Uncooled GaAS FET	Antenna Gain	33.9 dBic @ 1685.7 MHz
LNA Input	Coaxial (50 ohms)	Aperture Efficiency	56.5 % @ 1685.7 MHz
Input Frequency	1665 - 1715 MHz	RF Front End Noise Temp.	92 K @ 1685.7 MHz
Output Frequency	111.5 -161.5 MHz	Antenna Noise Temp.	38 K @ 1685.7 MHz
Bandwidth	50 MHz Typical (3 dB)	Total System Noise Temp.	130 K @ 1685.7 MHz
Gain	50 dB Min.	System G/T	13.1 dB-K Min. @ 1685.7 MHz
LO Frequency	1553.5 MHz		
LNA Noise Figure	55 K Max. (0.75 dB)		
Total Noise Temperature	92 K Max. (1.2 dB)		

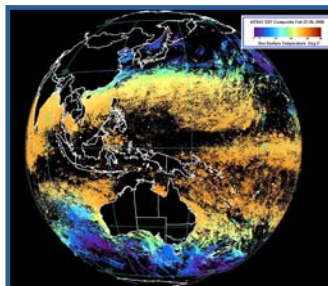
Technical specifications are subject to change at any time without notice.



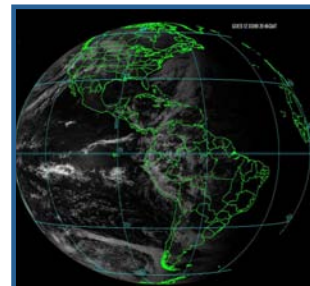
MSG Visible Image



GOES Fog Product



MTSAT SST Composite Product



GOES Visible Image

ACQUISITION MODULE SPECS

- Operating System — Linux (RHEL and CentOS)
- Input Signal Power — -90 to -50 dBm
- Input Frequency — 126-154 MHz (L-Band)
- Demodulation Types — BPSK, PSK
- Implementation Loss — < 1 dB @ 10E-6 BER (BPSK)
- Supported Telemetries — GOES GVAR, GMS S-VISSR, Meteosat PDUS, MTSAT HRID / LRIT, MSG LRIT, FY2C
- Supported Data Encoding — NRZ, NRZ-S, NRZ-M, Biphasic-L
- GEO Products — Visible, IR, Water Vapor, Cloud Products, Cloud Top Temperature, OLR, Fog (Low Cloud), SST, Cloud Motion Vectors

MODELS

- EODS-G3700-L — 3.7m GEO Ground Station

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