

# RVT WorkStation

Weather Satellite Data Processing and Display Workstation

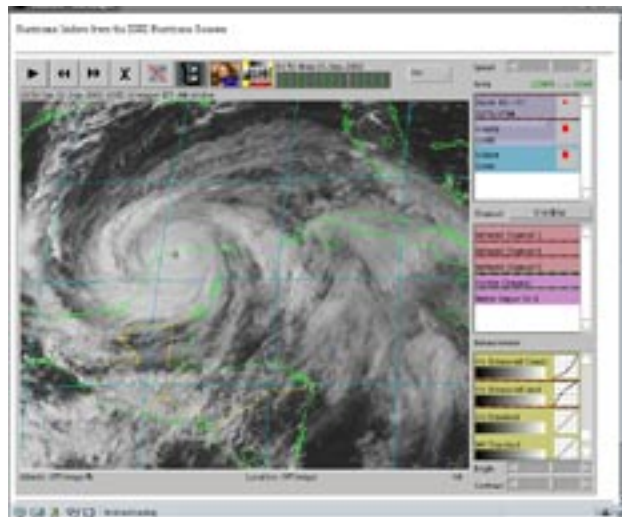
Automated Sciences LLC

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The Automated Sciences RVT (Rapid Visualization Tool) Workstation is a powerful computer designed to retrieve, process, and display satellite data. Three different image processing tools can be run on the RVT to process and display the satellite data. The individual tools automatically retrieve the required data from one or more Automated Sciences data reception platforms over a Gigabit LAN. The RVT Software (see separate Brochure) is our most powerful image processing tool capable of displaying the data in a realistic 3D perspective and is designed for and requires the RVT Workstation. The other two tools, the SuperLooper, and the Gridded Data Viewer can also both be run simultaneously on the RVT WorkStation providing a powerful one seat solution to data processing and analysis.

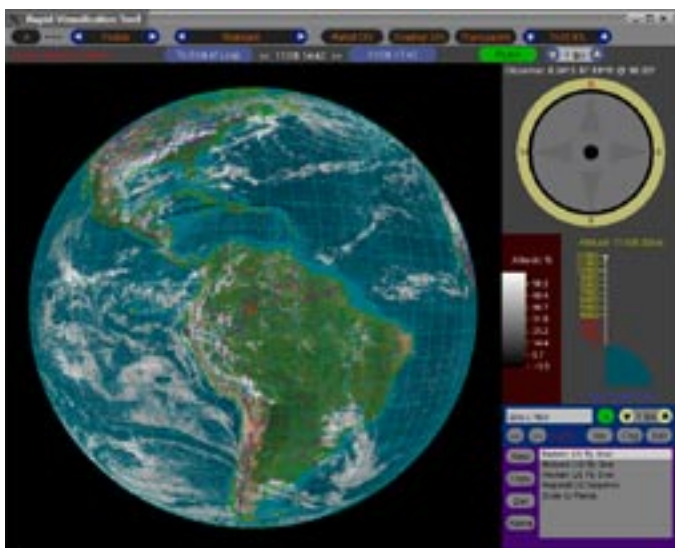


RVT WorkStation Internal View



The SuperLooper Tool

The RVT Workstation couples the latest computer hardware (see specs on back) with the powerful and reliable Linux operating system. The RVT Workstation is a full 64 bit computing platform capable of both 64 bit arithmetic and 48 bit virtual addressing giving it access to a virtually unlimited address space. The RVT Workstation has dual processors that the workload is distributed across improving performance and minimizing latency. The RVT WorkStation also includes high performance accelerated 3D graphics and can accommodate up to 16GB of memory. All of these powerful hardware features are fully exploited by both the Linux operating and our RVT Software.



The Rapid Visualization Tool

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The RVT WorkStation is designed to be connected via a Gigabit LAN to one or more Automated Sciences data ingest platforms. These platforms through a network shared filesystem and other networking protocols provide the software running on the RVT WorkStation with their data.

The data ingest platform is either the GOES Box customized for the appropriate regional satellite (NOAA GOES GVAR, JMA MTSAT HiRid/HRIT, or CMA FY-2 SVISSR) or a POES Box capable of receiving (NOAA POES HRPT or CMA FY-1 CHRPT).

Key Features of the RVT WorkStation	
Powerful Computing Platform	The RVT WorkStation is a powerful state of the art 64 bit computer system with the specifications listed below to provide ample power to quickly and efficiently work with the data.
Reliable Computing Platform	The RVT WorkStation runs Linux as its operating system, the powerful ultra-reliable variant of UNIX that is used throughout the world for the most critical computing applications.
Compatible Computing Platform	In addition to enabling the latest 64 bit technologies it is also capable of running a large range of legacy applications either compiled from sources or as binaries. It is fully compatible with existing 32 bit Linux binaries.
Includes three powerful image processing packages	Includes the Rapid Visualization Tool and Gridded Data Viewer software and it can also run the SuperLooper through the network from any GOES Box. These image processing packages complement each other to allow for a complete range of image processing, visualization, and product generation functions. See the separate literature covering this software for more information on capabilities.
Network Ready	The RVT Workstation retrieves on demand the data it requires. It can also share images exported by the RVT with other users on conventional workstations through a range of network protocols including a web server.
Developer Friendly	The Linux OS running on the RVT Workstation provides a powerful well supported platform for developers to utilize to realize ancillary applications to provide image transport or additional processing functions through Automated Sciences development support services.

RVT WorkStation Basic Specifications	
Processor Specifications	64 bit processing, Dual 1.6/1.8 Ghz AMD Opteron Processors with built-in high performance memory controller
Memory	8GB DDR RAM standard (12 or 16GB available as factory installed options). Memory is ECC memory to provide absolute reliability.
Hard Disk	Dual 160GB SATA Hard Drives (other configurations available as factory installed options)
Removeable Storage	DVD R/RW+/- CDR RW Writer with high CDROM/DVD Read capability, k3b software
Video	High performance NVidia 3D Graphics, 8X AGP, with latest Linux drivers
Network	Integrated GigaBit Ethernet Network with 1000BT port, second network adapter optional
Case	Mid Tower/4U Rack mount Case
Power Requirements	Voltage: 110V/220V, 50-60Hz AC, Power 400 Watts
Operating System	SuSe Linux 9.1 or greater distribution based on Linux 2.6.X kernel
Installed Software	Automated Sciences RVT, Gridded Data Viewer, and other associated components. Wide range of Open Source software including The GIMP, Mozilla, Apache Web Server. Netscape browser, Adobe Acrobat, and other commercial software.
Warranty	A two year limited warranty, contact us for details

## Pricing and Availability

The RVT WorkStation is available now. Pricing varies depending on configuration . Please contact Automated Sciences for a price quote.