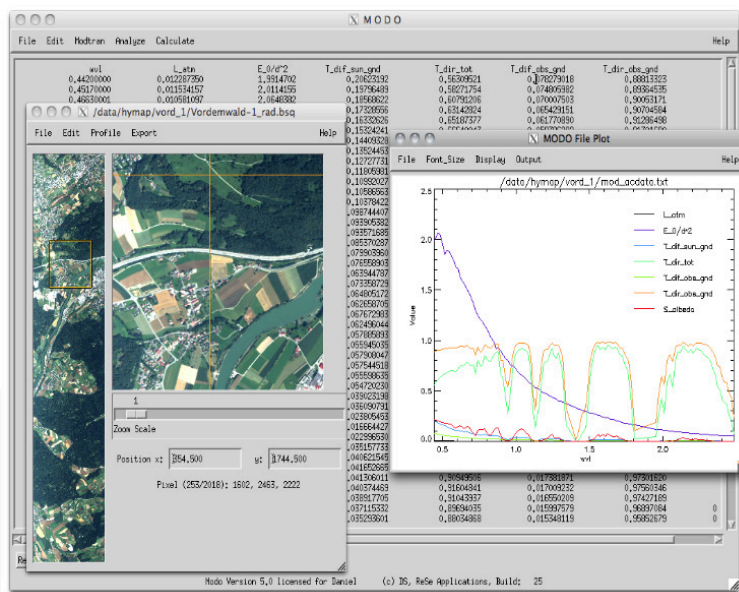




# MODTRAN®6 for Remote Sensing Research

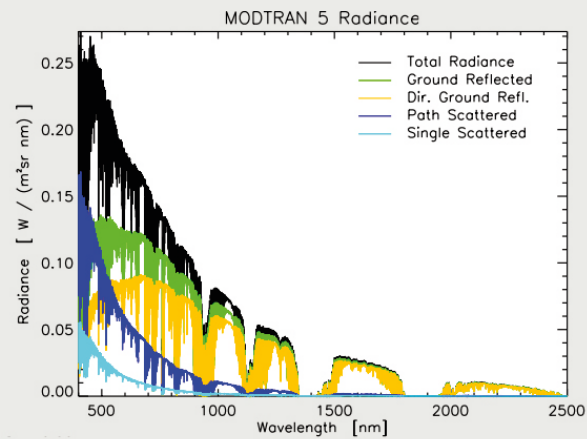
Scientific tool used to analyse signatures at various sensor systems, design hyperspectral instruments, calibrate and validate operational sensors, propagate surface reflectance signatures, learn about radiative transfer, and investigate atmospheric gases and aerosols.



## EXPERT SYSTEM

MODO provides access to the MODTRAN® radiative transfer code through a graphical user interface. It has been designed for use by the remote sensing specialists and research applications.

Moreover, it is well suited to learn the use of MODTRAN® and for educational purposes.



Full Resolution Radiance

## TECHNICAL REQUIREMENTS

- IDL virtual machine provided with software distribution,
- Windows 10 or higher, Linux, or Mac OS X.
- 9 GB storage for complete MODTRAN® installation,

The MODTRAN® trademark is being used with the express permission of the owner, the United States of America, as represented by the United States Air Force and by Spectral Sciences, Inc. (for use outside of the USA). MODTRAN® software used in this product is licensed from the United States of America, as represented by the United States Air Force, under U.S. Patent Nos. 5,884,226, 7,433,806 and 7,593,835 B2.

## Fully Featured

- Graphical interface to the original MODTRAN® software developed by SSI/AFGL,
- Direct call of embedded MODTRAN®6 ,
- Import/export of MODTRAN® tape5 or json control files,
- Import/export of reflectance reference spectra,
- Support for ENVI® spectral libraries,
- Optionally includes original executable code and full license of MODTRAN® v6.0,
- Extraction of radiance/transmittance/solar flux components from original MODTRAN® output,
- Plotting of standard MODTRAN® outputs (tape7 / flux),
- Direct at-sensor radiance simulation for remote sensing systems,
- Broad collection of sensor response functions for airborne and spaceborne optical and thermal instruments,
- Sensitivity analysis by series of critical parameters,
- Helper functions for visibility determination and solar angles calculation,
- Simple atmospheric correction (SACO) module for ENVI® formatted imagery,
- ENVI® file display and extraction of spectra, and
- Complete, linked documentation.

