



NEW FROM LPI

# The ALTA<sup>®</sup> Reflectance Spectrometer

Comes with complete classroom lesson package.

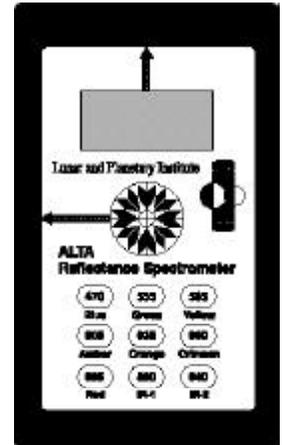
The ALTA<sup>®</sup> Reflectance Spectrometer is a rugged, hands-on classroom instrument designed to help students learn about light, color, and spectroscopy. It has push buttons, colored lamps, and a numeric display with immediate response time.

Using ALTA, students can collect real scientific data: the proportions of colored light (including infrared) that reflect off real-world objects. Data collection is simple and rapid. The students' data can be calibrated against standards and mathematically manipulated into graphs of reflectances versus light wavelength that are nearly identical to those in text and reference books. ALTA uses light in visible colors (blue through red in seven wavelengths) and in two invisible "colors" of infrared light.

ALTA's results are good models of spectra from NASA probes like Mars Pathfinder and environmental satellites like LANDSAT. The ALTA Reflectance Spectrometer can be used in any course that deals with light, color, or spectroscopy. Accompanying curriculum materials include basic operation

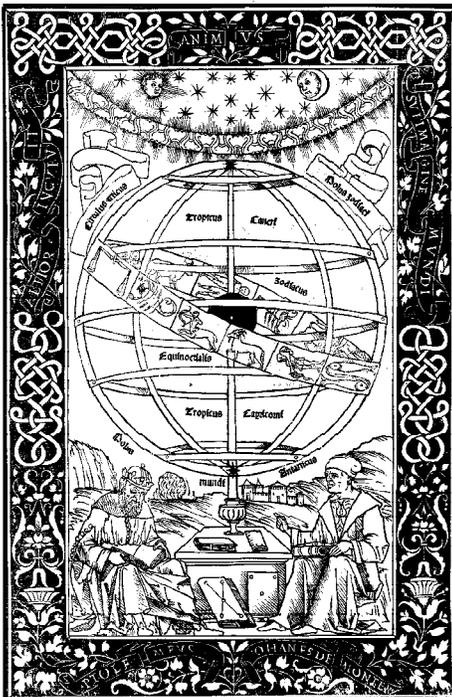
instructions and exercises in biology, environmental science and remote sensing, geology and planetary science, and physics.

Extensions are suggested for astronomy, physiology (color vision and illusion), and art. ALTA is designed for grades 8 through college, and has tested well in fifth-grade gifted and talented classes. ALTA is ideal for open-ended research and has been adopted for science-fair projects in geology and biology. The spectrometer comes with a classroom lesson package and is priced at \$129.95. See order page for more information.



Model No. LPI-RS-21  
PATENT PENDING

The ALTA hand-held spectrometer is 3.75" x 6.25" and weighs 9 ounces.



## When I Heard the Learn'd Astronomer

When I heard the learn'd astronomer;  
When the proofs, the figures, were  
ranged in columns before me;  
When I was shown the charts and the  
diagrams, to add, divide, and  
measure them;  
When I, sitting, heard the astronomer,  
where he lectured with much  
applause in the lecture-room,  
How soon, unaccountable, I became  
tired and sick;  
Till rising and gliding out, I wander'd  
off by myself,  
In the mystical moist night-air, and  
from time to time,  
Look'd up in perfect silence at the  
stars.

—Walt Whitman, 1900

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The Bulletin welcomes the submission of articles and essays dealing with issues related to planetary science and exploration. Please send articles or announcements to:  
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