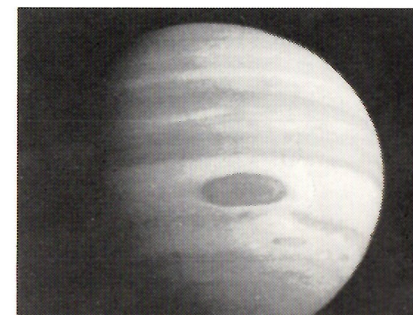
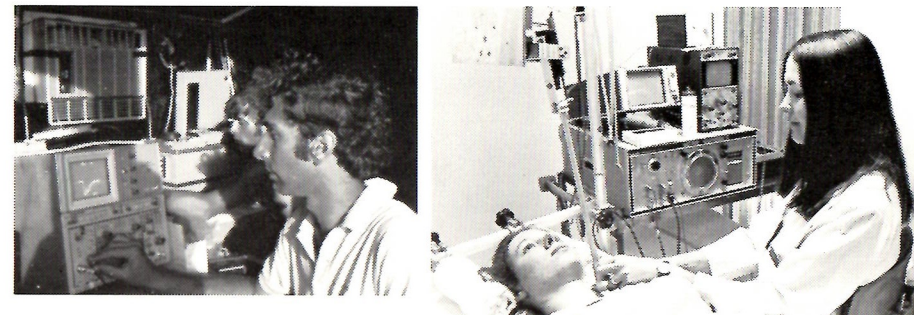
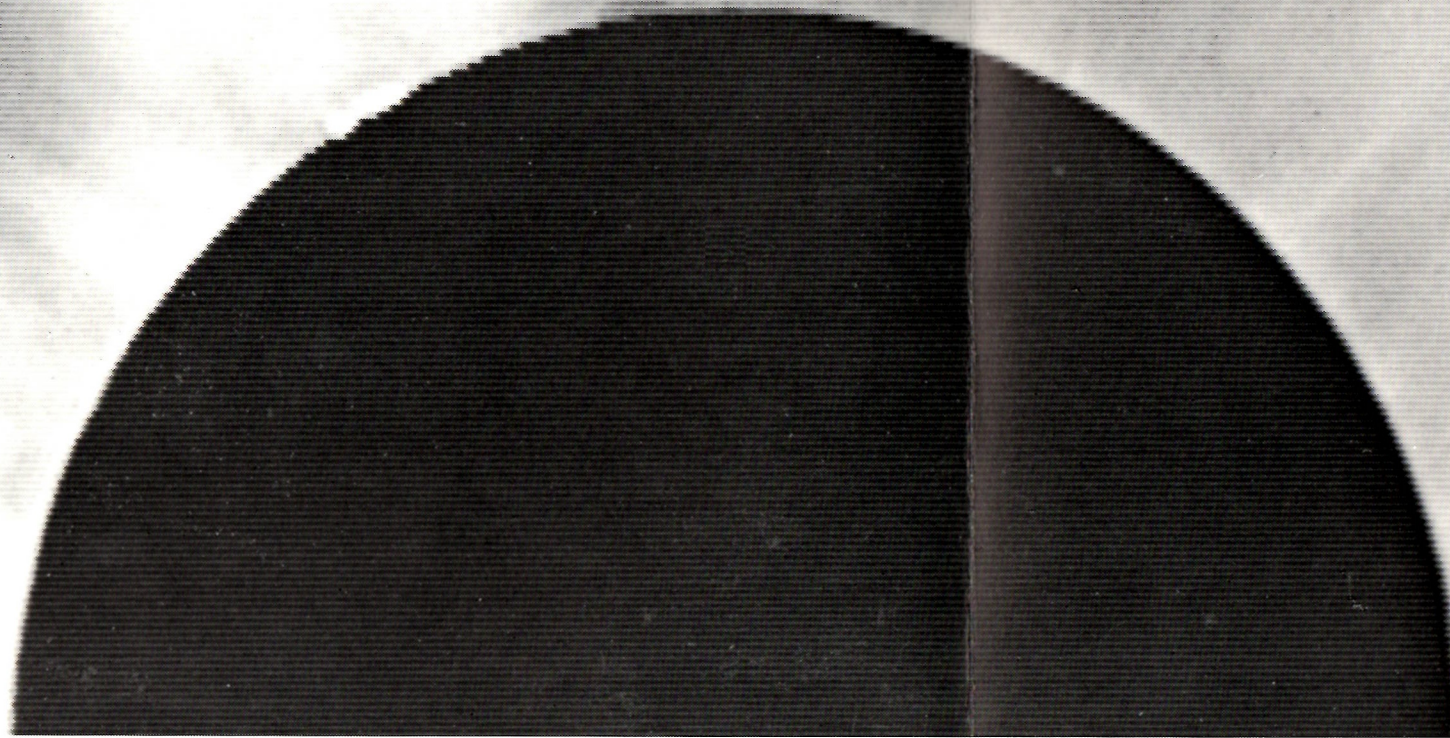


The universe of Tektronix is thousands of customers worldwide



HAO/NCAR, National Science Foundation

Tektronix instruments help customers ... to scan the sun ...

In 1973 a TEKTRONIX Rapid Scan Spectrometer went to a remote desert in Kenya to explore the solar corona. In five pressed minutes of total eclipse, a Williams College research team captured an infrared scan, fully 400 angstroms wide, to pin-point the lines of 12-times-ionized iron.

Fifty times per second the Spectrometer scanned the spectrum. Unlike conventional spectrographs, it gave immediate electronic feedback, vital for modifying the experiment in progress.

Five minutes of rare opportunity

went on tape. Back in the lab, a TEKTRONIX Digital Processing Oscilloscope quickly digitized the special data. Months of computer analysis clarified the results.

From the ionized-iron data emerged new figures for electron density, one of the most important quantities for understanding the corona. At a recent meeting of the American Astronomical Society, Dr. Jay M. Pasachoff presented those newly derived values, and the new detection technology. (The RSS is also a revolutionary optical approach to enzyme

studies, pollution measurement, aerial scanning, and other fleeting events.)

to forestall a stroke ...

When fatty deposits build up in the carotid artery, blood begins to jet. A chip of plaque can break loose, lodge in a brain capillary and cause a stroke.

Conventional x-ray methods to assess the danger can be painful, and sometimes even fatal.

But the privately operated Institute of Applied Physiology and Medicine in Seattle has developed a non-invasive, painless method, called ultrasonic arteriography, to diagnose prestroke symptoms in

only 45 minutes in a doctor's office or hospital.

A 5 MHz ultrasonic generator scans the patient's neck, reacting only to Doppler-shifted reflections from moving red blood cells in the artery. A fast plot displays variations in artery size on a TEKTRONIX 603 Storage Monitor, and flow-velocity waveforms simultaneously on a TEKTRONIX scope. Over 1500 patients have been successfully diagnosed with the prototype system.

Ultrasound is a promising alternative to more-invasive techniques in prenatal examinations, tumor location, angiography, and many other areas.

to bring Jupiter home to spot ore and earthquakes ...

The same TEKTRONIX TV products that bring you a better picture in your home, are also helping scientists explore the solar system.

The close-up of giant Jupiter that the world saw last winter was taken from the screen of a TEKTRONIX 654 Color Picture Monitor. Two slow-scan cameras aboard the Pioneer 11 satellite relayed Red and Blue signals back to Earth. There the two were synthesized into the Red, Green, and Blue signals that make up living color.

TEKTRONIX sync generators kept the whole process in phase, and TEKTRONIX waveform monitors guarded the signal fidelity, just as they do in virtually every TV station around the world.

to spot ore and earthquakes ...

When the Apollo lunar module circled the moon, the circle wasn't smooth. One hypothesis held that variations in the gravitational pull on the module were caused by heavy matter beneath the lunar dust: perhaps metallic ores.

Turning this thought earthward, the designers of next-generation laser range-finding systems are in close touch with geologists and geophysicists, as they refine both systems and improve interpretation of existing orbital range data. They use the TEKTRONIX R7912 Waveform Digitizer to capture laser pulses. They graph the output on a TEKTRONIX 4010 Computer Display Terminal to find minute variations.

Thus, better understanding of

satellite meanderings helps geologists to locate subterranean ore deposits, and geophysicists to predict earthquakes. It's a case of looking up to see down.

... to see cities clearly

Data-mapping is enabling city planners and administrators to see through urban data-sprawl. In Nashville's pioneering LAMP (Location and Mapping Program) system, everything from sewer systems to accidents and crimes to census data to new construction goes into the data base with location co-ordinates. Then, with the help of TEKTRONIX software, users can display maps of data on the 19" screen of a TEKTRONIX 4014 Computer Display Terminal. Data maps can be overlaid up to 16 deep, for graphically clear comparisons. City locations can

be called by street address, police area, state plane co-ordinates — with up to 1/10 foot accuracy. Finally, LAMP will be shedding light on urban information.



835 instruments and products to test, measure, record and display

Tektronix' thousands of customers are engaged in education, science, health, communications and industry (including over three-fourths of FORTUNE'S 500 largest industrial corporations). Our products which meet their test, measure, record and display needs fit into two major groups.

Test and Measurement Group

- Laboratory Instruments
 - Plug-in Oscilloscopes
 - Display Monitors
 - Modular Test and Measurement Products
- Communications
 - Processing, Measurement and Correction Instruments
 - Production and Routing Switchers
 - Spectrum Analyzers
 - Cable Testers
- Systems
 - Automated Test Systems
 - Semiconductor Testers
 - Waveform Digitizers
- Service Instruments
 - Portable Oscilloscopes
 - Logic Analyzers
 - Oscilloscope Cameras, Probes and Accessories
- Medical
 - Physiological Monitors

Information Display Group

- Systems Division
 - Assists our customers in implementation of our products to meet applications needs.
- OEM Division
 - Broadens application of our display technology and manufacturing strength.
- Products Division
 - Continues to be a leading supplier of innovative computer display equipment to scientists, engineers and industry.

portable oscilloscopes



spectrum analyzers



modular test and measurement products



plug-in oscilloscopes



digital processing oscilloscopes



programmable calculators



hard copiers



graphic terminals



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- *Marketing Subsidiaries*
- ▲ *Marketing Representatives*



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