HEWLETT® PACKARD

# HP 89441A vector signal analyzer

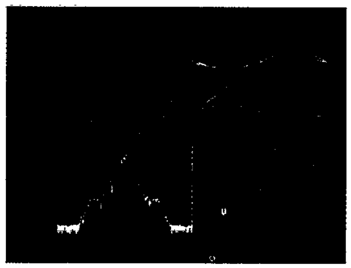
## With a conventional signal analyzer, you can't see the whole picture. HP vector signal analyzers are designed from the ground up for today's complex signals. They offer:

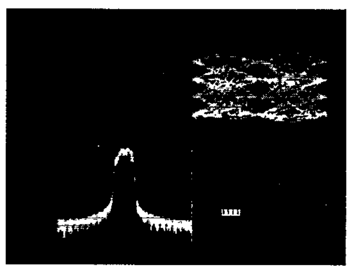
**Spectrum and waveform analysis**—high resolution time and frequency analysis, fully calibrated in both domains and updated up to 60 times/second. You can measure the phase of individual spectral components or display phase and group delay versus time.

**Digital and analog modulation analysis**—recover and analyze the actual modulating waveforms, whether the modulation is digital (QPSK, FSK, QAM), analog (AM, FM, PM), transient, or incidental.

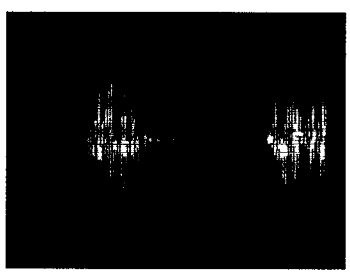
**Time and frequency selective measurements**—operating in two domains at once allows you to view the instantaneous spectrum of a signal by placing cursors on the desired part of the displayed time waveform. The cursors can also be used in the frequency domain to exclude an unwanted signal for measuring adjacent channel or band power.

**HP vector signal analyzers let you stay focused on developing new products, not on inventing test tools. Develop your products faster with powerful measurements designed especially for today's complex modulated and time-varying signals.**

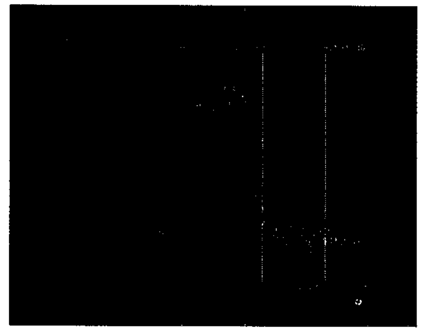




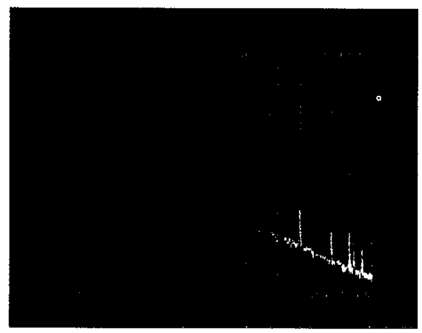
**Carrier, symbol, and sync word locking are automatically acquired, and a wide range of qualitative and quantitative measurements is provided.**



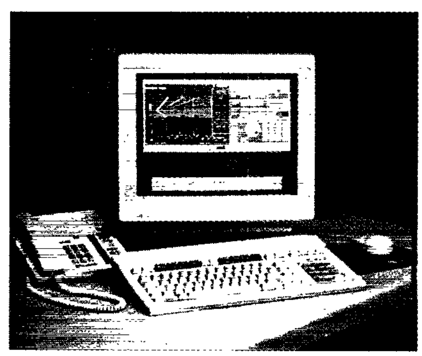
**Gap-free deep-memory time capture, flexible triggering and complete time domain analysis are ideal for transient signals.**



**ACP measurements have never been easier. Precise (±0.5 dB) frequency- and time-selective peak and average power measurements are only a keystroke away.**



**High performance phase noise measurements are fast and simple. HP 89441A phase noise is typically −124 dBm/Hz at a 10 kHz offset.**



**View and operate the instrument front panel/display from across the building or across the world with the LAN and X-Windows options.**

**For more information on HP vector signal analyzers, please turn the page. ▶**