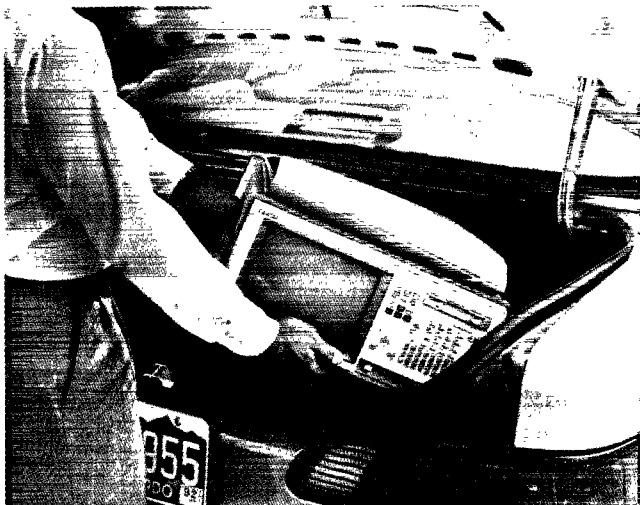
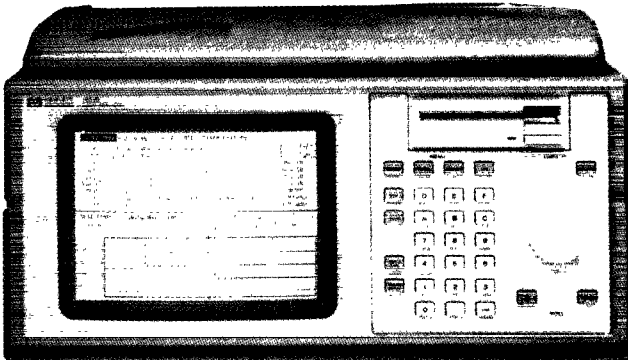


Make timing measurements with up to 2-ns resolution. Display bus values inside the waveforms, using any base (including symbols).



Compact size lets you debug problems away from the bench.



The HP 1651B offers 32 channels for economical, general-purpose troubleshooting.

### Move Screen Images and Measurement Data to Your Computer

The built-in 3 $\frac{1}{2}$ -in DOS disk makes it easy to transfer measurement data into your computer. All 1660 Series models allow you to save screen images as industry-standard PCX or TIFF files. Import these images into all documentation packages which accept these file formats or, store data listings to the DOS floppy disk in an ASCII format.

Full programmability lets you control all logic analyzer functions from a computer. Data and setup commands let you upload or download instrument configurations and measurement data.

### Invest Wisely

HP 1660 Series logic analyzers are upgradable as your needs change. Begin with the HP 1660 Series model with the right number of channels for your application. You can later add an integrated scope with the E2460AS upgrade kit. Or conveniently increase the number of logic analyzer channels for wider applications.

HP's traditional reliability means you can expect your HP 1660 Series logic analyzer to continue solving tough problems in the future.

Compatibility with previous HP logic analyzers lets you start using your HP 1660 Series logic analyzer without having to spend time refixturing, reconfiguring, or relearning a new analyzer. HP 1660 Series logic analyzers use the same probe connectors, preprocessors, and inverse assemblers as most other current HP logic analyzers.

### Service Equipment at Your Test Site

No other portable logic analyzer packs as much measurement power into such a compact package. Compact and portable, HP 1660 Series logic analyzers are easy to carry to your test site. Whether in your lab, manufacturing, or in the field, the small footprint (17.4 in  $\times$  15.2 in) and light weight (26 lbs) will be appreciated. A soft carrying case and accessory pouch make HP 1660 Series logic analyzers ideal for field service applications.

### Troubleshoot Without Traveling

The HP E2446L Remote Troubleshooting software allows you to control and collect data from a distant logic analyzer without leaving the office. The software, which runs on a PC under Windows, lets you control and collect data from a location which may even be in another country. You get remote access to all of the capabilities of an HP 1660 Series or 16500 Series analyzer via modem.

### Transfer Configurations or Measurements Made with One Instrument to Another

Make measurements in the field with confidence that setups and data can be reproduced later in the lab. Use the built-in 3 $\frac{1}{2}$ -inch disk to transfer data from a HP 1660 Series analyzer. You can insert the disk and view the measurement data on another HP 1660 Series analyzer or on a HP 16550A.

### HP 1651B 32-Channel Logic Analyzer

#### Economical Logic Analysis

The HP 1651B provides low-cost, 32-channel logic analysis for 8-bit microprocessor-based designs or general purpose debugging. View the interaction between hardware and software to determine if there is a problem caused by a software bug or a hardware glitch. The 1651B, like other HP logic analyzers, allows you to display time-correlated state and timing information on a single screen.

Each HP 1651B can be configured as a single state or timing analyzer, two state analyzers, or a state and timing analyzer together. Refer to page 338 for supported microprocessors.

#### HP 1651B Specifications

Channels	32
Timing speed	100 MHz transitional
State speed	25 MHz
Setup/hold	10/0 ns
Minimum detectable glitch	5 ns
Probe input R & C	100 K $\Omega$ and $\sim$ 8pF