

Scan by Zenith

Redefining Digital Storage with 2402 TekMate



Tektronix
COMMITTED TO EXCELLENCE

Extend, Expand, and Enhance your Scope's Capabilities

- Storage of over 300 waveforms at a time.
- Data logging with date/time stamping.
- Advanced waveform math and analysis.
- Auto-pass/fail waveform testing.
- Portability, expandability, ruggedness, and ease-of-operation.
- Standalone execution of user-developed test and measurement programs.
- Convenient access to hard-copy output.

How would you like to store over 300 waveforms, perform complex analysis, log and monitor data over time—completely unattended—and automate test procedures, *all without costly programming?*

Now you can do just that, thanks to the new 2402 TekMate, a hardware/software system designed specifically to extend the capabilities of your 2440, 2432A, or 2430A digital storage oscilloscope.



In ATE, TekMate helps reduce time in verification of devices under test, increasing manufacturing throughput and cutting costs.

New Dimensions of Waveform Storage, New Powers of Math and Analysis

In a variety of test and measurement environments, TekMate teams up with your 2400 Series scope to give you just the solution you need.

Standalone capabilities.

In its basic configuration, TekMate provides waveform storage to and retrieval from diskette; waveform math, including addition, subtraction, differentiation, integration, and Fast Fourier

Transform (FFT); data logging; time/date stamping; and mask generation for use with your scope's automatic pass/fail capability.

Program development capabilities.

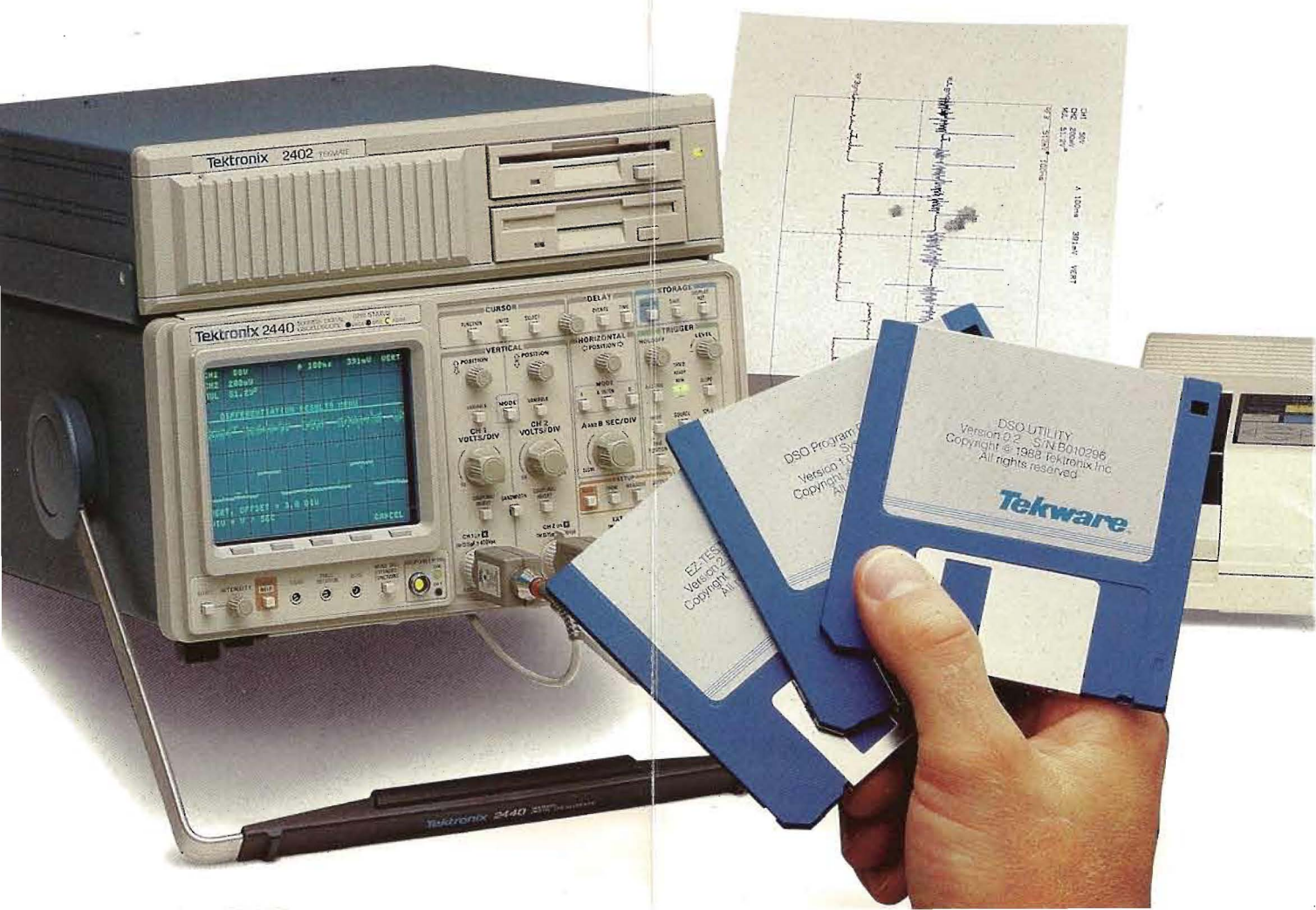
For tailoring solutions to specific problems, you can develop custom test procedures on the Tektronix PEP 301/303 or other PC-compatible systems for later execution on your TekMate/scope unit. You

can develop these procedures using any of three optional software packages: TekMate's Program Development System, TekMate's EZ-Test PC Procedure Generator, and the Digital Interface Test System (DITS).

The Program Development System gives you a library of GPIB-control, file-handling, custom-menu, and math sub-routines, plus Microsoft QuickC and QuickBASIC programming

languages and a special waveform template generator. The Program Development System is useful for test development in a variety of applications.

EZ-Test provides instrument setup, triggering, stimulus-response tests, data transfer between files and instruments, and other ready-to-run functions. EZ-Test is ideal for generating ATE-specific applications.



DITS is specifically tailored for telecommunications applications. Among its capabilities are procedures that automatically verify T-carrier signals against ANSI standards, helping you reduce errors and cut costs.

ATE Applications. The multi-functional TekMate is a real ATE handyman. Using libraries of known-good waveforms or custom test procedures stored on diskette, TekMate gives you fast and accurate pass/fail decision-making — completely automated. You can develop ATE-specific test procedures on the Tek PEP 301/303 or other PC-compatible systems with the Program Development System or EZ-Test.

Off-Site Service. With comparison waveforms and front-panel settings stored on diskette, the compact, single-handle TekMate/scope unit is perfect for responding to problems in the field. Its ease-of-use allows even new operators to set up and run complex testing procedures. Its analysis capabilities help isolate and reveal the most stubborn problems. Its 3.5-inch diskettes let you easily archive problems and their solutions. And its access to HP-GL, Epson, and Postscript-compatible printers and plotters provides fast hardcopy documentation for future reference.

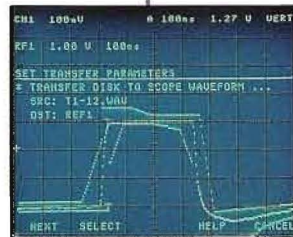
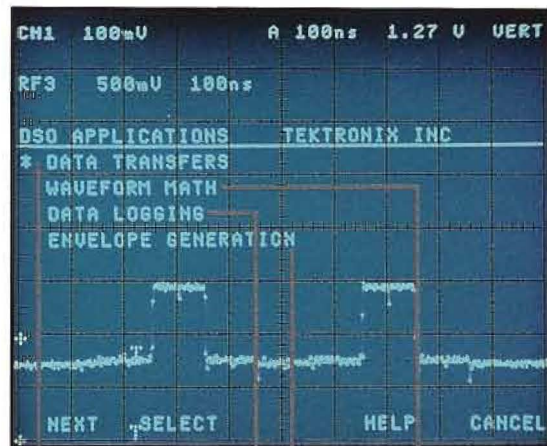
Unattended Monitoring.

TekMate is ideal for situations requiring on-line, continuous monitoring for aberrant events. With its storage capability of over 300 waveforms on a disk and the scope's automatic pass/fail waveform testing capabilities, a TekMate/scope unit can log out-of-limit events to diskette, adding a time/date stamp to each event as it's captured. There's no need for an operator standing by, and expensive data-retrieval visits can be kept to a minimum.

Design Characterization.

With TekMate, you don't need to spend time running environmental verification, power-supply loading, and general device-characterization tests. Instead, you can connect a probe and log data directly to diskette, for virtually automatic archiving of the results of your design changes. And TekMate's convenient access to hardcopy devices makes documentation easy too.

Wherever you can use storage capability of over 300 waveforms, advanced waveform analysis, and advanced automation in a portable, easy-to-use test unit, then consider extending your 2400 Series scope capabilities with TekMate. To find out more, contact your local Tek representative, or call Tek directly at **1-800-426-2200**.



TekMate transfers a DS1 mask from a library of pass/fail waveform masks to the scope for automatic testing.



After calculating an FFT, TekMate displays dB and frequency values at a user-controllable cursor on your scope screen.



By automatically date/time-stamping and storing failure events, TekMate helps you capture suspected intermittent events.



With TekMate, you can easily create pass/fail waveform masks from your scope's front panel.

With TekMate attached firmly to the top of your scope, you have a completely integrated, surprisingly versatile multi-functional test system. Compact and lightweight, TekMate stretches your scope's power without sacrificing its portability. So a TekMate/scope unit goes just about anywhere you might install or carry a scope alone.

And TekMate is easy to use. You can access its extraordinary storage, analysis, and automated testing capabilities from plain-English menus displayed directly on your scope screen, by using the scope's familiar front-panel bezel buttons. You get mass waveform storage, complex math capabilities, data logging, time-stamping, mask generation, and more, all at your fingertips. And you get direct connection to any HP-GL, Epson, or Postscript-compatible printer and plotters, for fast hardcopies of your waveforms.



TekMate simplifies off-site service with virtually automatic setup and easy access to libraries of known-good waveforms stored on its 3.5-inch diskettes.

With TekMate, you can expand the power of your 2440, 2432A, or 2430A digital scope in applications like ATE, off-site service, unattended monitoring, design characterization, and many others. Your digital storage capabilities will never be the same.

Configurations and Partial Specifications

SOFTWARE

DSO Utility. Included with every TekMate option 01. Operates on any Tek 2400 Series digital oscilloscope. Provides:

- Waveform storage to disk
- Waveform loading to scope
- Waveform logging at test-sequence end, on test failure; on scope trigger, or by pressing autoprobe button.
- Waveform math
- Waveshape template generation
- Direct hardcopy output on HP-GL, Epson, IBM Graphic, Postscript, and compatible devices.

Program Development

Software. Included with every TekMate option 41. Operates on Tektronix PEP 301/303 and other PC-compatibles. Provides:

- Menu Development System, Waveform Math, and GPIB Control Functions libraries
- Disk, directory, and file-management functions
- Template generation tools

Operating System. MS-DOS version 3.3

HARDWARE

TekMate mainframe. Includes:

- Two 3.5-inch floppy-disk drives, 720K capacity each
- Built-in, battery-backed clock-calendar

Display. Uses companion 2400 Series digital oscilloscope screen or optional monitor.

Power. 90V to 250V AC line-voltage range requirement.

- 48 Hz to 440 Hz line-frequency range requirement.
- 70 watts power consumption

For further information, contact:

U.S.A., Asia, Australia, Central & South America, Japan

Tektronix, Inc.
P.O. Box 1700
Beaverton, Oregon 97075

For additional literature, or the address and phone number of the Tektronix Sales Office nearest you, contact:

(800) 835-9433 ext. 170
TWX: (910) 467-8708
TLX: 151754

France, Africa

Phone: 33 (169) 86 81 81

Federal Republic of Germany

Phone: 49 (221) 77220

United Kingdom

Phone: 44 (6284) 6000

Northern Europe Area

Phone: 31 (2503) 65265

Southern Europe Area

Phone: 41 (42) 219192

Eastern Europe and Middle East


Phone: 43 (222) 68-66-02-0

Canada

Phone: (705) 737-2700

Tektronix sales and service offices around the world: Algeria, Argentina,

Australia, Austria, Bahrain, Bangladesh, Belgium, Bolivia, Brazil, Canada, Peoples Republic of China, Chile, Colombia, Costa Rica, Denmark, Ecuador, Egypt, Federal Republic of Germany, Finland, France, Greece, Hong Kong, Iceland, India, Indonesia, Ireland, Israel, Italy, Japan, Jordan, Korea, Kuwait, Lebanon, Malaysia, Mexico, The Netherlands, New Zealand, Nigeria, Norway, Oman, Pakistan, Panama, Peru, Philippines, Poland, Portugal, Qatar, Republic of South Africa, Saudi Arabia, Singapore, Spain, Sri Lanka, Sweden, Switzerland, Syria, Taiwan, Thailand, Turkey, Tunisia, United Arab Emirates, United Kingdom, Uruguay, Venezuela, Zimbabwe.

Copyright © 1989, Tektronix, Inc. All rights reserved. Printed in U.S.A. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX, TEK, PLOT 10, TEKTEST, SCOPE-MOBILE, and  are registered trademarks. For further information, contact: Tektronix, Inc., Corporate Offices, P.O. Box 500, Beaverton, OR 97077. Phone: (503) 627-7111; TWX: (910) 467-8708. TLX: 151754; Subsidiaries and distributors worldwide.

Tektronix®
COMMITTED TO EXCELLENCE