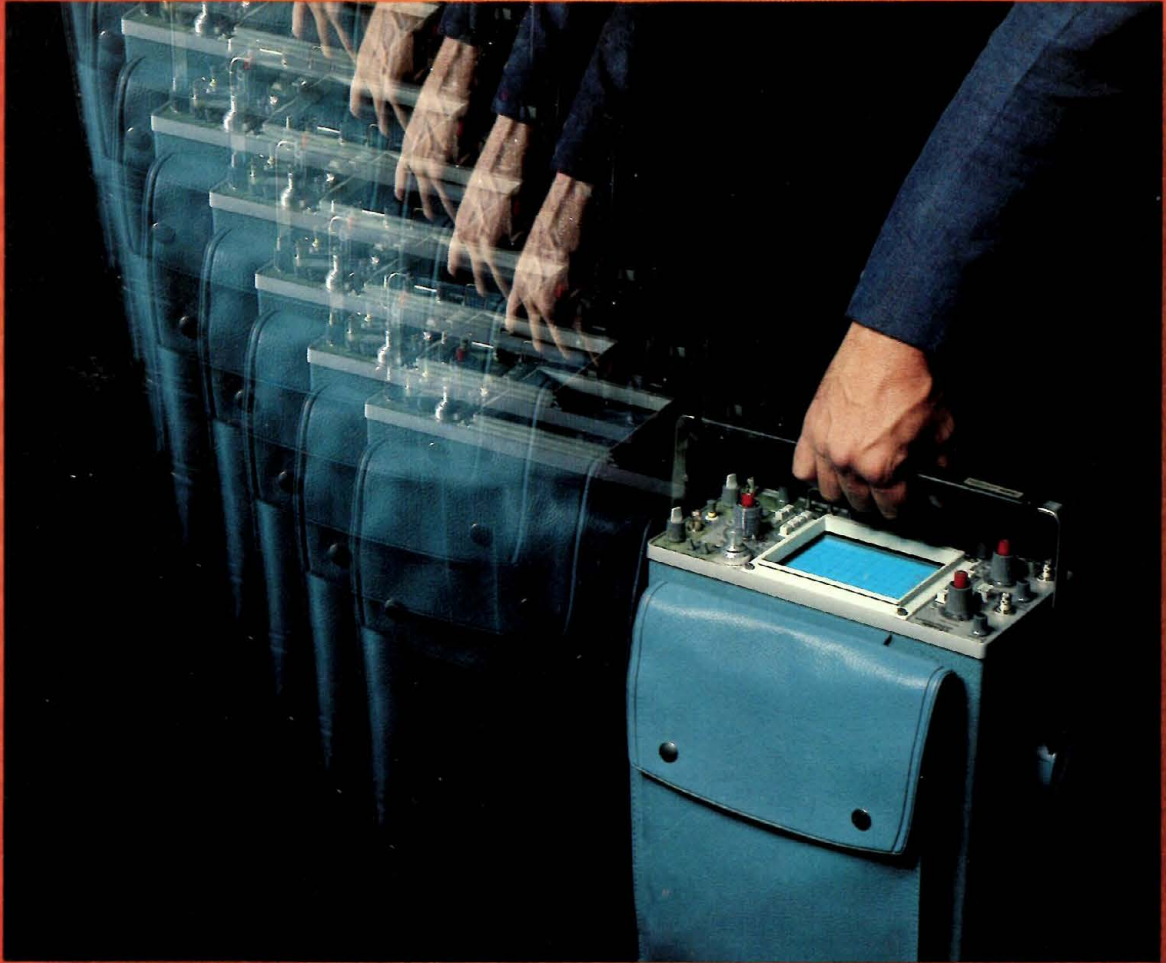


PORTABLE OSCILLOSCOPES



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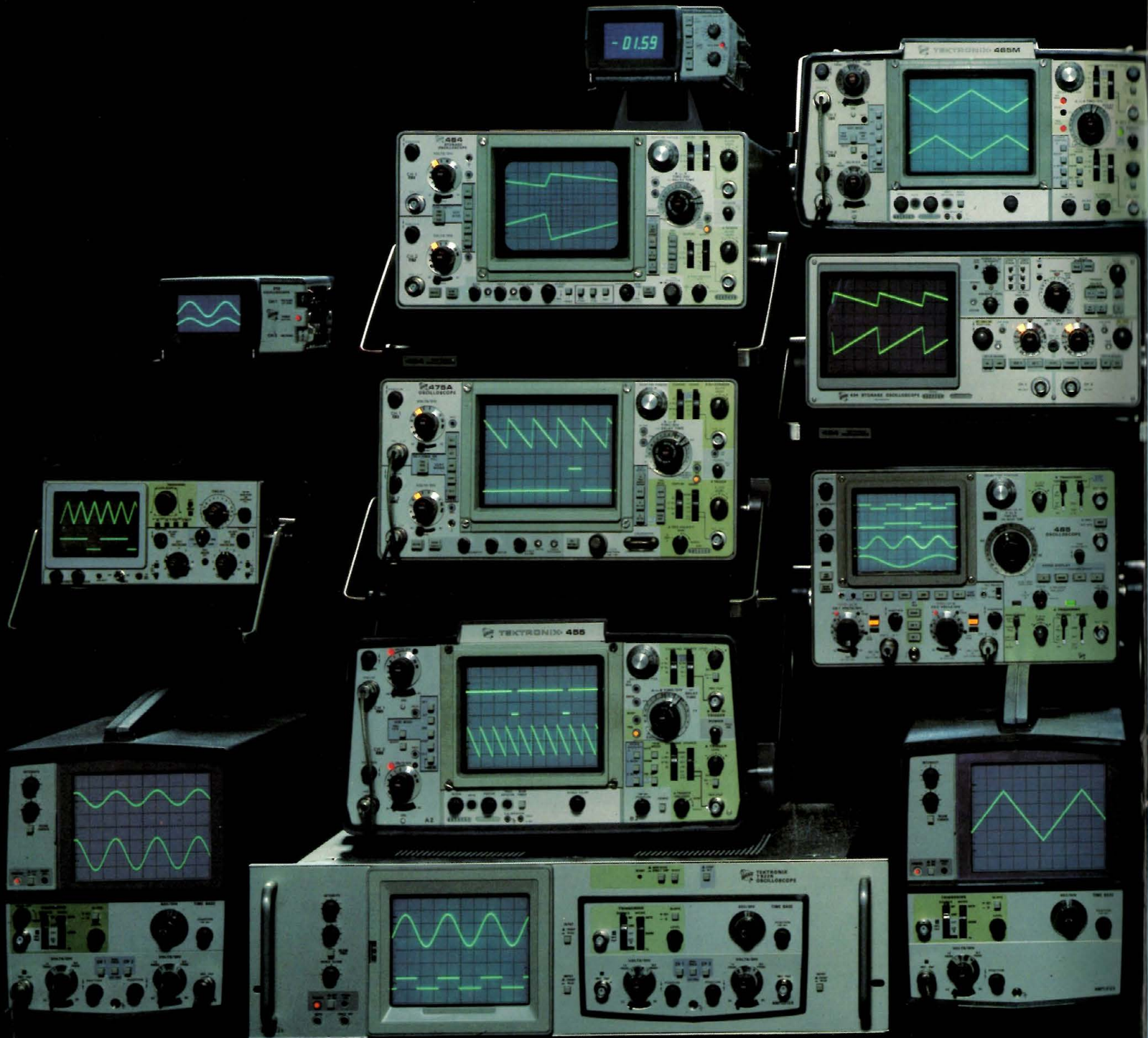
CHARLES OSBORNE
60-725
IF YOU HAVE MOVED, PLEASE
CALL EXT. 7641 OR 6378

Tektronix[®]
COMMITTED TO EXCELLENCE

**TEKTRONIX
Portable
Oscilloscopes:**

22

**High-Performance
Models That Go
Where You Go.**

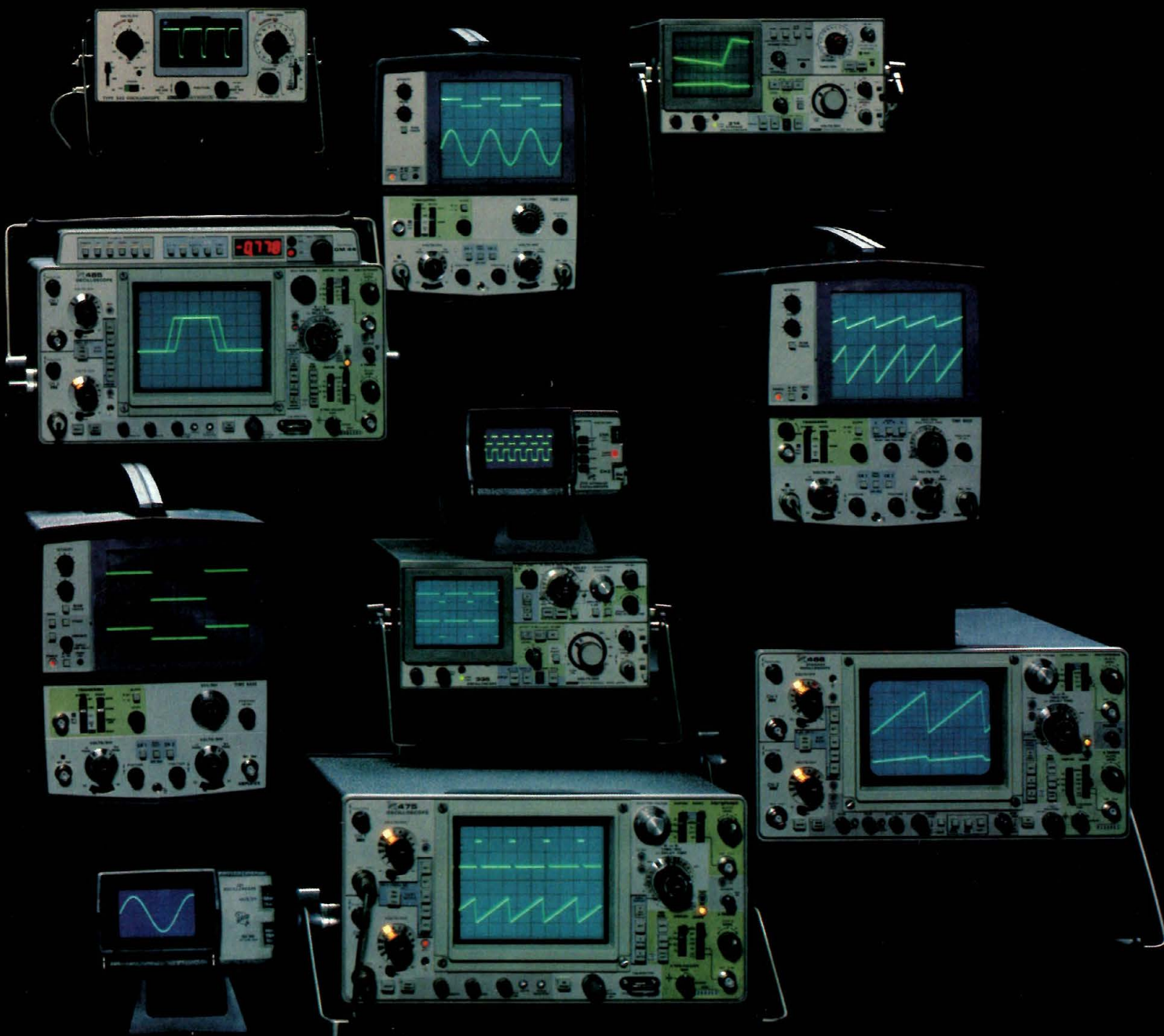


Introducing our 22 high-performance portable oscilloscopes: nine portables with lab scope features; four medium-size and weight oscilloscopes; four miniscopes; and five low-cost models. There's even a new rackmount version of one of our most popular, inexpensive portables. Designed for accuracy and reliability, these rugged instruments are at home in service, engineering, education, or research environments — from computer repair to industrial control maintenance, from electronics laboratories to educational institutions.

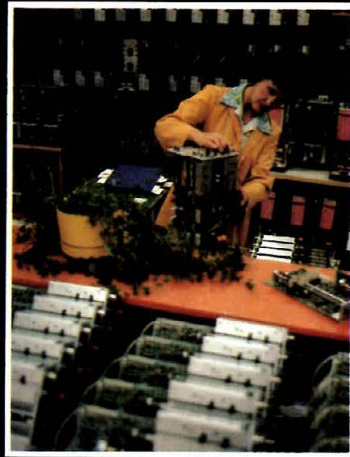
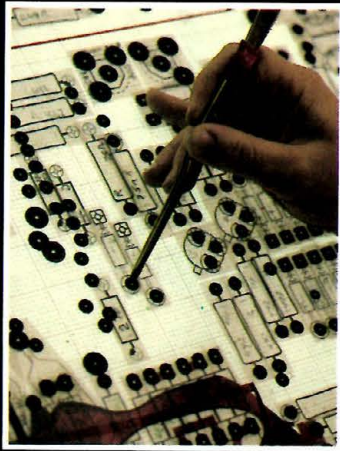
We'd like to tell you about each TEKTRONIX Portable Scope and some of their uses. You'll find that portability means more than light weight; that our storage models and oscilloscope/DMMs are some of the most versatile test equipment packages available; and that we'll bend over backwards to give you the service and support you need.

Our goal is to consistently provide unmatched value in all our products. For proof, examine the high-performance 400-Series, with bandwidths to 350 MHz, described on pages 8-11, or the medium-size 300-Series starting on page 12. Evaluate the battery-powered 200-Series Miniscopes on pages 14 and 15 or the T900-Series low-cost Oscilloscopes described on pages 16 and 17. And don't forget our complete line of cameras, probes, carts, and accessories.

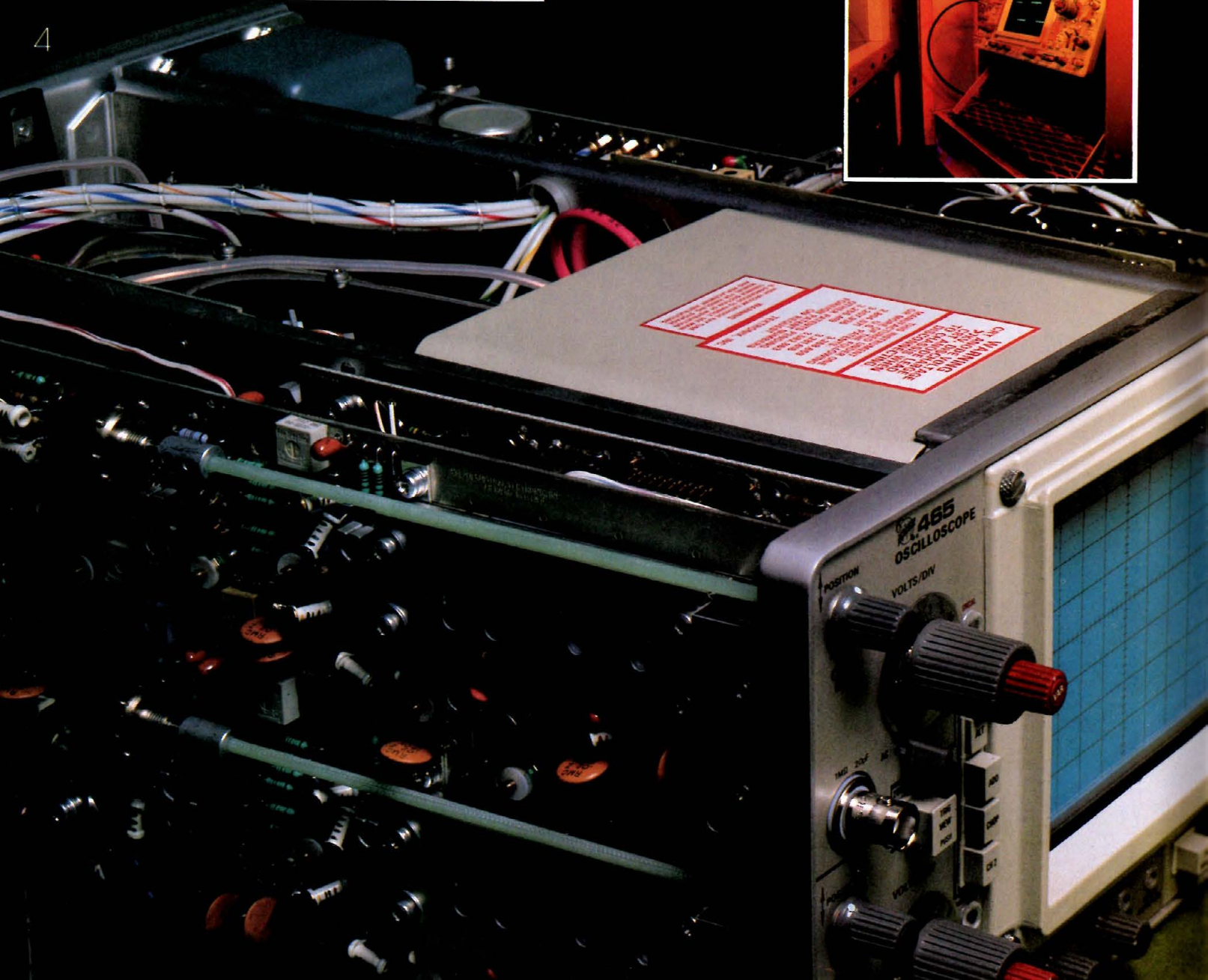
We think you'll agree. We have a portable oscilloscope that's right for your application.



There's More to Buying a Portable Oscilloscope than Comparing Specs.



4

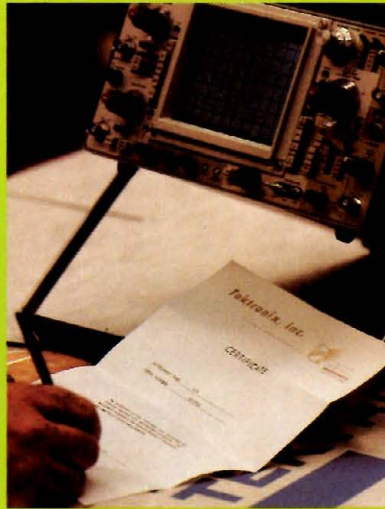


There's more to buying an oscilloscope than comparing bandwidths, sensitivities and sweep rates. We've been manufacturing oscilloscopes for over 30 years. And in that time, we've found out a lot about building a portable scope that can withstand the rigors of field service. At Tektronix, good specs are only the beginning.

So What Should You Look For?

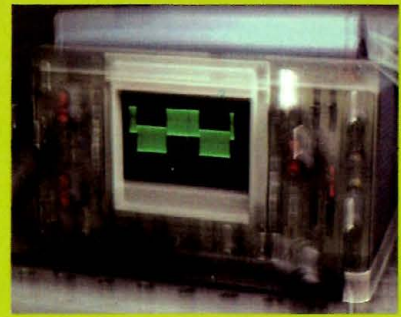
Reliability and durability right off the bat. Reliable instruments of rugged construction punch in more hours on the job with less time on the repair bench. They don't drain the budget; they pump up the income.

And don't overlook accuracy. Accurate scopes cut costs by helping trainees gain confidence in their abilities with less training time. Accuracy pays even bigger dividends in the field because accurate readings the first time around reduce "second-guessing" and return visits.



We Go to Extremes to Insure Accuracy and Reliability.

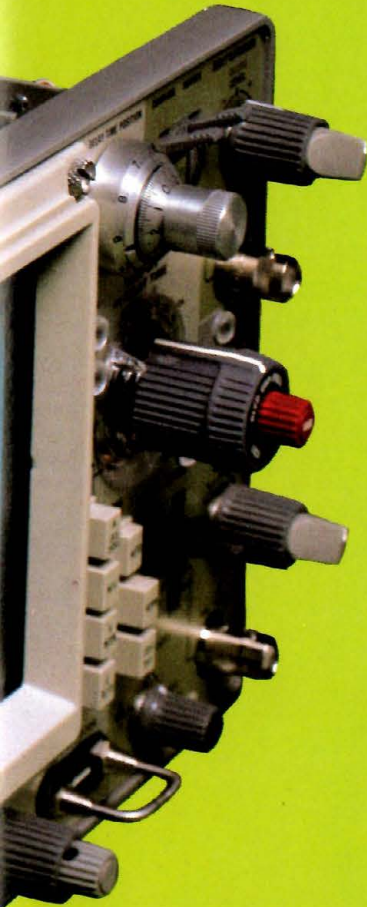
For openers, we begin by engineering for reliability. To be sure that each portable scope will meet Tektronix Reliability Standards, we keep our design engineers posted on the failure rates and causes for every component from the IC chips to the lid latch. These are computed from our field service reports dating back over ten years.



Just to be sure someone doesn't stumble on some new abuse before we do, Tektronix Environmental Labs simulate actual field situations and take them to extremes; like using special chambers to "fly" instruments to 50,000 feet (15,240 meters), nonpressurized, then testing their operational capabilities. Next, they deposit them in steamy humidity at cycling temperatures or pour on salt, fog, sulfides, rain, dust, and fire. We build our scopes to meet or exceed applicable MIL specs for humidity and vibration.

Next, Tektronix Reliability Labs put these scopes through accelerated life tests that run around the clock for weeks on end; sometimes months. Unlike the Environmental Lab tests where overt field situations and unthinkable abuses are imposed on instruments, accelerated life testing patiently fatigues an instrument into failure. Then, we find out why and improve them for the next go-around.

These measures are only the tip of the iceberg. If you're interested in the other things we do to insure reliability and accuracy, your Tektronix Field Engineer, Distributor or Representative will be happy to fill you in.

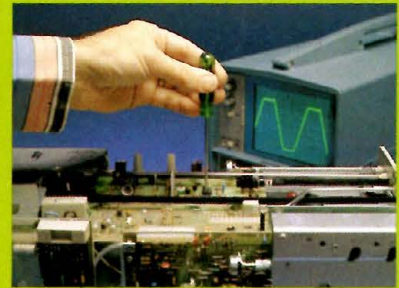




Consider DMM and Logic Analysis Capabilities as Part of Your Portable Test Equipment Requirements.

With the advent of microelectronics, scopes are being required to perform more and more complex measurements.

That's why, with the DM 44 Option,



What Makes an Oscilloscope Portable?

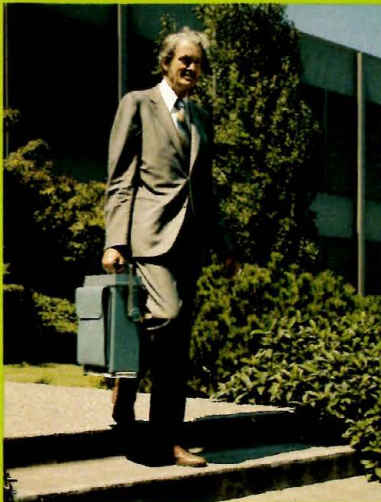
Sure, light weight is important. And each TEKTRONIX Portable weighs less than 26 pounds (11.8 kg). But when you're out on a service call, you'll appreciate the fact that we've added some human engineering features to TEKTRONIX Instruments to make them easy to transport, set up, and operate — things like logical, color-coded front panel designs; neck straps, support stands or multi-position handles on all our portables to make them easy to transport and view; and modular probes that can easily be repaired if damaged.

we've added a digital multi-meter to five of our 400-Series Portables. This 3½ digit LED display unit checks voltage, current and temperature. But most importantly, the DM 44 with its delta delayed-sweep capability also simplifies differential-time measurements.

Or for an ultra-portable oscilloscope/DMM, the unique 1-MHz 213 combines DMM and oscilloscope functions in a 3.7 pound (1.7 kg) package.

We also offer several fixed-fee maintenance programs and blanket-repair agreements to extend your service coverage beyond the warranty period.

At Tektronix, we're continually working on improving and upgrading our instruments. But if the scope you purchase this year is discontinued next year, you'll still be able to obtain its unique replacement parts and subparts in 1985. You can thank our Long-Term Support Program. It might be quite a few years before you appreciate this service, but in the meantime, we'll be maintaining over \$10 million in readily available spare parts just in case you call.



For scope operation where line power isn't available, there are built-in, rechargeable batteries on six models and provisions for the snap-on 1106 Accessory Battery Pack on six 400-Series Option 07 Oscilloscopes. The free-standing 1105 Battery Supply is also available to power most TEKTRONIX Portable Scopes in the field.



As an ideal partner for your oscilloscope when working with microprocessors, take along the LA 501W Logic Analyzer. A part of the TM 500 Test and Measurement System, the LA 501W can be used with most TEKTRONIX Oscilloscopes for troubleshooting logic circuitry.

Don't Forget the Service and Support Programs Behind Your TEKTRONIX Oscilloscope.

You get some important items from Tektronix that don't fit in the shipping carton.

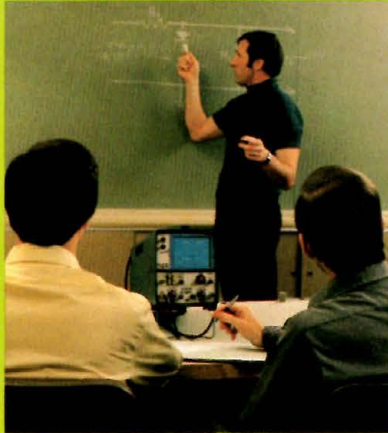
One is prompt service by knowledgeable and highly-skilled service technicians who repair TEKTRONIX Products at dozens of locations around the world.

For Accuracy and

	Product
Storage Models	466
	464
	434
	314
	214
	T912
Nonstorage Models	485
	475A (New)
	475
	465
	465M (New)
	455
	335
	326
	323
	221
	213
	212
	T935
T932	
T922	
T922R (New)	
T921	
Time Interval Readout	DM44

Get More Out of Your TEKTRONIX Instrument with Our Education and Training Programs.

We offer the most advanced customer training available. It covers in-depth circuit concepts, routine calibration, maintenance, trouble-shooting, and hands-on experience in instrument repair. It comes in three packages. Your first option is to come to our campus in Beaverton, Oregon for a week of formal training.



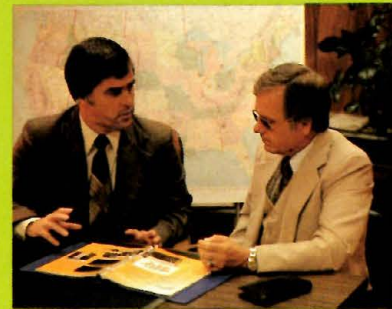
Or, your Tektronix Field Engineer, Distributor or Representative can arrange for training seminars at any location convenient to you.

Your third option is to select and purchase the audio and video tapes we've prepared. They range from basic oscilloscope operation to instrument circuit descriptions. The prices are reasonable and the library is growing.

Ask for more information. Our Education and Training Department will be glad to help.

Here's the Person to Talk to.

Your Tektronix Field Engineer, Distributor or Representative doesn't expect you to base your portable scope selection on a lot of verbiage. Your applications have to be satisfied. You want a demonstration of performance before you make a commitment. You want prices, hard specifications, a written quotation, and a taste of the quality services you'll receive.



That's what he's there for. He's the person to see for accurate, reliable service instruments.

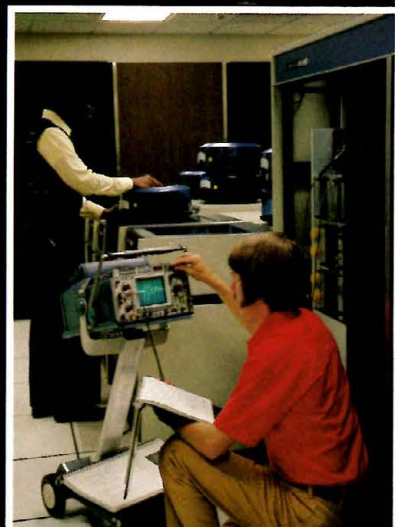
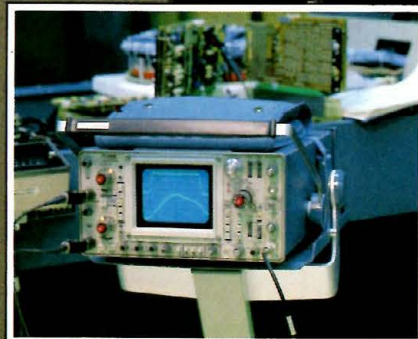
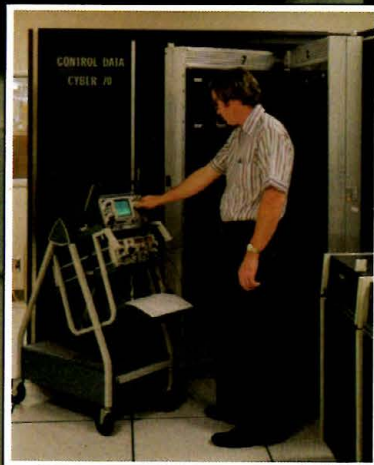
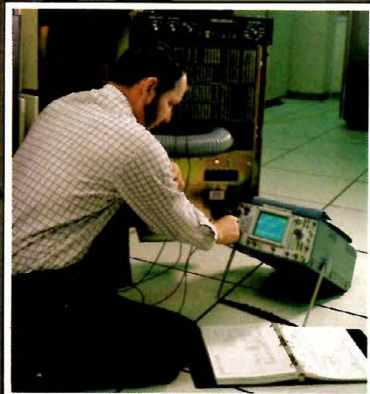
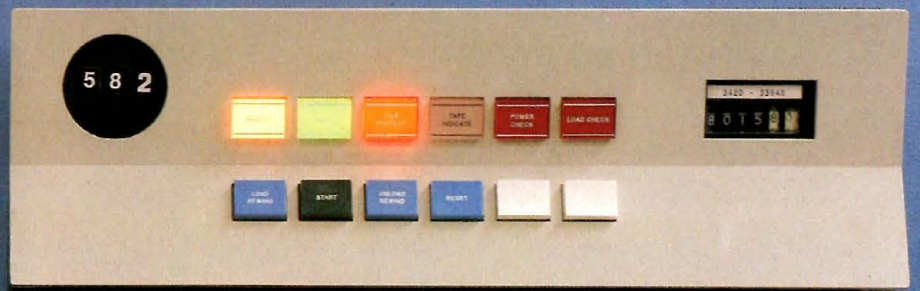
Versatility in the Field, Take One of Our 22 Portable Oscilloscopes.

Bw	Dual Trace	Delayed Sweep	Fastest Sweep Rate	Other Special Features
100 MHz @ 5 mV/div	yes	yes	5 ns/div	3000 div/ μ s stored writing speed
100 MHz @ 5 mV/div	yes	yes	5 ns/div	110 div/ μ s stored writing speed
25 MHz @ 10 mV/div	yes		20 ns/div	Split-screen storage
10 MHz @ 1 mV/div	yes		100 ns/div	Only 10.5 lbs (4.8 kg)
500 kHz @ 10mV/div	yes		1 μ s/div	Only 3.5 lbs (1.6 kg)
10 MHz @ 2 mV/div	yes		50 ns/div	Low-cost bistable storage
350 MHz @ 5 mV/div	yes	yes	1 ns/div	Widest bw in a portable
250 MHz @ 5 mV/div	yes	yes	1 ns/div	High-performance 250-MHz portable
200 MHz @ 2 mV/div	yes	yes	1 ns/div	Highest gain-bw in a portable
100 MHz @ 5 mV/div	yes	yes	5 ns/div	Cost effective for 100-MHz bw
100 MHz @ 5 mV/div	yes	yes	5 ns/div	Triservice standard 100-MHz scope
50 MHz @ 5 mV/div	yes	yes	5 ns/div	Cost effective for 50-MHz bw
35 MHz @ 10 mV/div	yes	yes	20 ns/div	Only 10.5 lbs (4.8 kg)
10 MHz @ 10 mV/div	yes		100 ns/div	Internal battery
4 MHz @ 10 mV/div			500 ns/div	Only 7 lbs (3.2 kg)
5 MHz @ 5 mV/div			100 ns/div	Only 3.5 lbs (1.6 kg)
1 MHz @ 20 mV/div			400 ns/div	DMM/Oscilloscope @ 3.7 lbs (1.7 kg)
500 kHz @ 10 mV/div	yes		1 μ s/div	Low cost for dual trace & battery
35 MHz @ 2 mV/div	yes	yes	10 ns/div	Low-cost delayed-sweep model
35 MHz @ 2 mV/div	yes		10 ns/div	Variable trigger-holdoff
15 MHz @ 2 mV/div	yes		20 ns/div	Low-cost dual-trace scope
15 MHz @ 2 mV/div	yes		20 ns/div	Rackmount version of T922
15 MHz @ 2 mV/div			20 ns/div	Lowest-cost TEKTRONIX Portable

Optional, factory-installed, direct numerical readout of time intervals and DMM functions for the 464, 465, 466, 475, and 475A

For price and availability outside the United States, please contact the nearest Tektronix Field Office, Distributor or Representative.

For Digital
Equipment
Servicing, Take a
Lab-Quality
400-Series
Portable.



Since the introduction of our first 400-Series Portable, the model 422 in 1965, this family continues to demonstrate that an oscilloscope doesn't have to be heavy and bulky to provide lab-quality performance for the field service engineer.

Our 400-Series Scopes represent the state of the art in portable oscilloscope technology — like the 485, a 350-MHz scope in a 24 pound (10.9 kg) package; and the 100-MHz 466, the fastest storage portable available today with a 3000 div/ μ s (1350 cm/ μ s) stored writing speed.

All these instruments are backed by exclusive IC and crt technology, years of reliability testing, and our continuing commitment to excellence in scope design.

For the ultimate in accuracy and reliability, take one of our nine 400-Series Oscilloscopes. All weigh less than 26 pounds (11.8 kg). Various models feature bandwidths from 25 MHz to 350 MHz, dual trace, delayed sweep, high-speed storage, graticule illumination, variable-trigger holdoff, and optional battery power with the 1106 Clip-On Battery Pack (when the scope is ordered with Option 07). For easy operation, all have color-coded controls, an automatic volts/div readout (except for the environmentalized 465M) and an external trigger display. There's even the DM 44 Option, a direct-numerical-readout option available on five models for simple, quick, and highly-accurate differential-time and DMM measurements.

Take advantage of the 400-Series' unique features for your computer servicing, point-of-purchase terminal repair, and communication system maintenance applications. Or use one of the 400-Series Scopes in its rackmount version for your in-plant service or production testing work. Descriptions of these nine lab-quality models follow.

For the Widest Bandwidth in a Portable, Take the 350-MHz 485.

The first TEKTRONIX Oscilloscope, the model 511, weighed 50 pounds (23 kg) and had a bandwidth of 10 MHz. That was in 1947. We've taken scope technology a long way since then.



Meet the 350-MHz 485, the widest bandwidth portable available today. Besides dual trace, delayed sweep, variable-trigger holdoff, graticule illumination and a 5 mV/div maximum sensitivity, we've added features you'd expect to find only on your lab oscilloscope. These include 1 M Ω and 50 Ω selectable input impedances, alternate switching between intensified and delayed sweeps, and automatic focus. And all this is contained in a 24 pound (10.9 kg) package.

Use the 485 for servicing your high-speed digital electronics. You'll find the switchable input impedances a real help when measuring high and low-impedance points in a circuit without using active probes. And with its 3.0 div/ns writing speed, the 485, when combined with the C-31R Camera, is excellent for photographing high-speed, single-shot phenomena.

For Excellent Price/Performance Combinations, Take the 100-MHz 465, the 200-MHz 475 or the New 250-MHz 475A.

What are the most desired features in a high-performance portable oscilloscope? Usually they include dual trace, delayed sweep, variable-trigger holdoff, a wide bandwidth and a moderate price.



Add a large, easy-to-read 8 x 10 cm crt, an automatic volts/div readout, a color-coded front panel, graticule illumination, and 1106 Battery Pack compatibility (when the scope is ordered with Option 07), and you have our popular 100-MHz Model 465.

Users of portable scopes are finding the 465's capabilities so well suited to their needs that they have virtually made it the industry-standard portable. And the 465 weighs in at only 23 pounds (10.4 kg), making it easy to transport to almost any field service location.

We now build two more 400-Series Scopes for those who require wider bandwidths and want all the features of the 465; the 200-MHz 475 and the new 250-MHz 475A. Each also features the same color-coded control panel arrangement as the 465 and weighs only 23 pounds (10.4 kg).

With its 250-MHz bandwidth at 5 mV/div, we gave the 475A a concise trace and spot size for precise high-frequency measurements. The 465 also has 5 mV/div maximum sensitivity while the 475 boasts 2 mV/div at its full bandwidth.

Let your measurement requirements be the judge. The 100-MHz 465, the 200-MHz 475, or the 250-MHz 475A are all excellent price/performance combinations.

For Storage Capabilities in a 100-MHz Portable, Take the 464 or the High-Writing Speed 466.

Today, only one 100-MHz portable can store a 100-MHz single-shot waveform: the high-speed storage 466. With its 3000 div/ μ s (1350 cm/ μ s) stored writing speed, the 466 can capture and retain glitches in a data stream, pulsed rf sine waves in a radar system, or any other repetitive or non-repetitive phenomena at 100 MHz.



With the exception of its stored writing speed, the 110 div/ μ s 464 is identical to the 466. For those who don't require the fast storage of the 466, the 464 is the ideal storage portable.

Each model has a large 8 x 10 division (0.9 cm/div) crt, a maximum sensitivity of 5 mV/div, graticule illumination, variable-trigger holdoff, optional battery operation with the 1106 Battery Pack (when the scope is ordered with Option 07), and weighs 26 pounds (11.8 kg). Standard 400-Series features include dual trace, delayed sweep, a color-coded front panel, and an automatic volts/div readout.

Use the 466 in its fast-transfer storage mode for capturing high-speed, single-shot signals. Or use either the 466 or the 464 in their variable persistence modes for retaining slowly changing analog signals.

For an Environmentalized Scope with Full Military Documentation and Parts Provisioning, Take the New 100-MHz 465M.

If you're in a civilian agency or work for a prime contractor, consider this new 100-MHz portable. The 465M is the commercial version of the triservice standard TEKTRONIX AN/USM 425. Both are designed and manufactured to meet MIL-T-28800B, Type II, Class 4, Style C specifications.

The 465M retains all the popular features of our other 400-Series scopes — like dual trace, delayed sweep, graticule illumination, and external trigger view. And it features a 100-MHz bandwidth at 5 mV/div sensitivity.



This 24 pound (10.9 kg) instrument is ruggedized for military applications. Modular design simplifies servicing and parts are fully provisioned. Military manuals and documentation are available. The unit comes equipped with a front cover to protect it in the rain, and a ruggedized case.

Specify the new 465M as part of your test equipment package in your next government application.

For A Value-Leading 400-Series Portable, Take the 50-MHz 455.

If you don't need a wide-bandwidth oscilloscope, but want 400-Series quality, examine the 50-MHz 455. This value-leading portable combines 400-Series features, accuracy, and reliability in an inexpensive, medium-bandwidth package.



The large 8 x 10 cm display is easy to view. The 455's 50-MHz bandwidth at 5 mV/div is useful in many general service and production applications. Graticule illumination simplifies waveform photography. Modular design means easy serviceability and calibration. Dual trace, delayed sweep, and variable-trigger hold-off capabilities are standard. The trigger signal can be viewed with the push of a button. And the 24 pound (10.9 kg) 455 accepts the 1106 Snap-On Battery Pack when the scope is ordered with Option 07.

Check out the 50-MHz 455. And put a medium-bandwidth 400-Series Portable to work for you.



For Easy Differential-Time Measurements with Five 400-Series Portables, Take the Factory-Installed DM 44 Option.

1% timing measurements were never this easy! With the DM 44 Option, available on five TEKTRONIX 400-Series Portables, time intervals can be read directly from the 3½ digit LED screen. Simply use the Delay Time control and the Δ Time dial to position intensified spots at the beginning and end of the interval you wish to measure (A). Next, switch to delayed sweep and use the Δ time dial to superimpose the end of the interval on the beginning (B). Then read its differential time or frequency on the LED panel (C). It's that simple. And it's accurate to 1%.

Compare the DM 44 sequence with the measurement technique you may now be using. Calculating the interval from the crt may take 10 times as long.

Voltage, resistance, and temperature measurements are also much easier with a DM 44-equipped 400-Series Oscilloscope. Previously, you would have needed a separate DMM and digital thermometer in addition to your oscilloscope. Now, the DM 44 combines these features in one small, inexpensive, integral package.

The DM 44 is available as a factory-installed option on the 464, 465, 466, 475 and 475A Portables. It adds Delta Delayed Sweep and independent DMM capabilities to these 400-Series Scopes. First, consider your bandwidth, sensitivity, storage, and price requirements. Then specify the DM 44 Option for simple and accurate digital measurements.

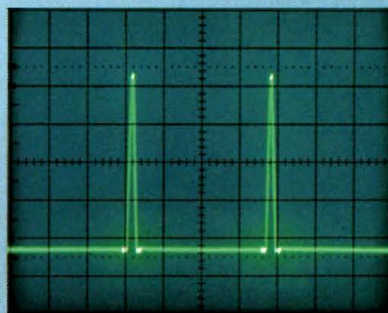
For a Split-Screen Storage Portable, Take the 25-MHz 434.

The smallest, lightest 400-Series Portable is also one of the most versatile. This 20.75 pound (9.4 kg) dual-trace unit combines a 25-MHz bandwidth at 10 mV/div vertical sensitivity with bistable, split-screen storage.

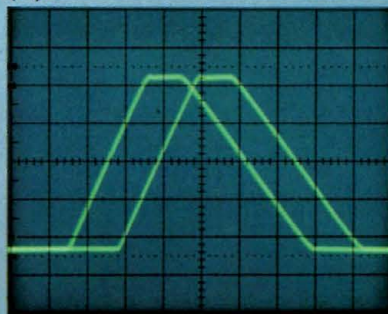


With this storage portable, you can operate the storage function in 3 modes: full screen store, upper, or lower screen storage. In the last two modes, half of the screen operates in the conventional, non-storage fashion.

Use the 434 for maintaining display boards, video monitors, medical electronics, baggage handling systems, or air conditioners — wherever storage of low-rep-rate or single-shot phenomena is required.



(A)



(B)



(C)

400-Series Oscilloscopes

- 485
- 475A
- 475
- 466
- 465
- 465M
- 464
- 455
- 434

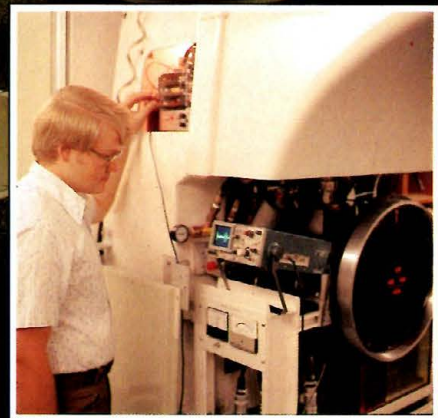
DM 44 Option
(for 464, 465, 466, 475 or 475A.)

In addition to being available with options such as TV triggering, emc shielding, and special phosphors, several 400-Series Portables are available in rackmountable configurations. Contact your Tektronix Field Engineer, Distributor or Representative, or consult our general catalog for information and specifications on all 400-Series Scopes and Accessories.

For Medical
Electronics
Maintenance,
Take a
Medium-Size and
Weight 300-Series
Portable.



12



SONY/TEKTRONIX 300-Series Oscilloscopes demonstrate that a precision scope can weigh less than 11 pounds (5.0 kg) and still contain many of the high-performance capabilities found on our 400-Series Portables. This family features bandwidths from 4 MHz to 35 MHz, a 0.6 cm/div crt on all models, long-term storage, delayed sweep, battery operation and low-power consumption.

SONY/TEKTRONIX builds these portables tough to withstand the strains of high altitude and extreme humidity. Two models are especially designed for severe environments and meet the MIL-Std-202C, Method 106B test for humidity. One of these, the Model 323, is battery powered and operates to 30,000 feet (9144 m).

Take one of our four 300-Series Scopes with you for servicing medical electronics, on-board ship equipment, or remote computer terminals — wherever light-weight, medium-size scopes are required.

For a Versatile, Lightweight Portable, Take the 35-MHz 335.

When you consider the size and weight of the SONY/TEKTRONIX 335, it's surprising that such a small, lightweight portable can contain so many high-performance capabilities. Yet, while weighing only 10.5 pounds (4.8 kg) and measuring 4.4 x 9.3 x 13.6 inches (11.2 x 23.6 x 34.7 cm), the 335 offers dual trace, delayed sweep, a 35-MHz bandwidth, 1 mV/div vertical sensitivity at 25 MHz, and a composite trigger.



With a logical front-panel design and color-coded controls, this instrument was designed to be easy-to-operate. Use the 335 for all your design and servicing applications, including work with digital equipment.

For a Battery Operated 10-MHz Portable, Take the SONY/TEKTRONIX 326.

A 10-MHz bandwidth, 1 mV/div vertical sensitivity at 5 MHz, battery operation for up to 4 hours, very low power consumption, and a 10 pound (4.5 kg) weight all combine to make the SONY/TEKTRONIX 326 a very attractive portable oscilloscope package.



The 326 is designed for high-humidity conditions and meets MIL-Std-202C, Method 106B. Take this lightweight portable where humidity might damage other, less rugged instruments — like for servicing remote communications equipment or process controls.

For Servicing in Severe Environments at Remote Sites, Take the 4-MHz 323.



If your service instrument must withstand severe environmental conditions like high shock or extreme temperatures, consider the SONY/TEKTRONIX 323. This rugged portable meets the MIL-Std-202C, Method 106B test for humidity and operates to 30,000 feet (9144 m) and +55°C.

The 323 features a 4-MHz bandwidth at 1 mV/div, weighs only 7 pounds (3.2 kg), and can be powered for up to 7 hours by its rechargeable internal batteries.

For a Lightweight, Long-Term-Storage Portable, Take the 10-MHz 314.



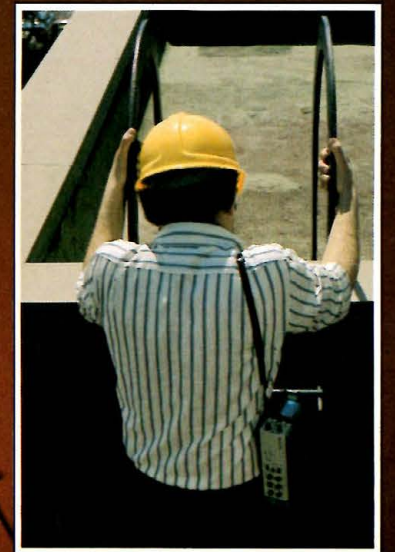
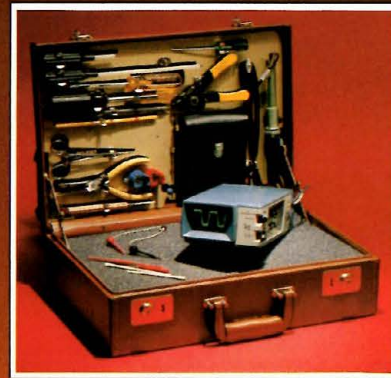
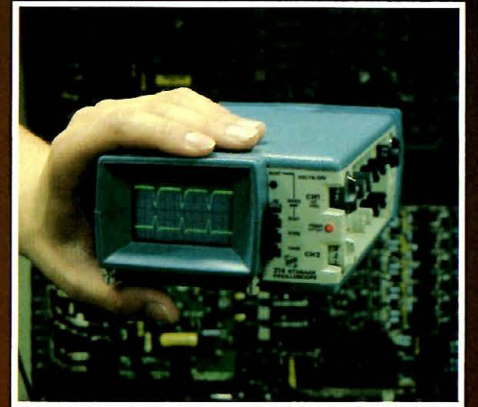
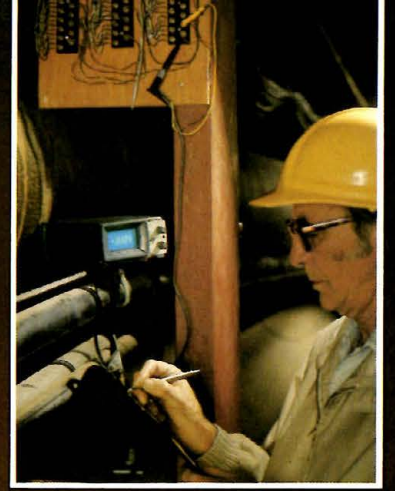
The 10.5 pound (4.8 kg) SONY/TEKTRONIX 314 adds long-term storage to the lightweight 300-Series package. With a 10-MHz bandwidth at 1 mV/div, dual-trace capabilities, a color-coded front panel, and integrate and auto-erase storage modes, the 314 is recommended for viewing transients or low-rep-rate signals in the field. Consider the 314 when you want many large storage-scope features in a small package.

300-Series Oscilloscopes

- 335
- 326
- 323
- 314

Options such as battery packs, viewing hoods, special phosphors and crt filters are available for 300-Series Portables. Contact your Tektronix Field Engineer, Distributor or Representative, or consult our general catalog for information and specifications on all 300-Series Scopes and Accessories.

For Servicing in
Remote
Locations, Take a
Battery-Powered
200-Series
Miniscope.



Have you ever tried carrying an oscilloscope up a ladder and across a catwalk in a processing plant? Or wished that the oil rig in the middle of the ocean had a nearby ac power outlet? Then you know that for many oscilloscope applications, light weight and battery operation are absolute necessities.

Introducing the TEKTRONIX 200-Series Miniscopes. Powered by rechargeable, internal NICAD batteries or external ac and weighing less than 3.7 pounds (1.7 kg) each, these four instruments offer solutions to your measurement requirements that you can hold in the palm of your hand.

We designed the 200 Series for portability and ease-of-operation. Then we added the features most useful for remote servicing. Bandwidths range from 500 kHz to 5 MHz. One model, the 214, offers storage capabilities, and another, the 213, combines scope and DMM functions.

Attached, color-coded probes and cable storage compartments facilitate scope set-up and operation. Simplified slope and triggering controls make one-hand operation easy. Included neck straps free your hands for other tasks. Rugged impact-resistant cases on these double-insulated instruments afford shock protection and make floating measurements possible. Their 6 x 10 division (0.5 cm/div) CRTs are easy to read. And with their small, 3 x 5¼ x 9½ inch (7.6 x 13.2 x 22.6 cm) size, each 200-Series Miniscope fits easily into your briefcase or toolbox.

Examine the features of the four 200-Series models. We think you'll find that these oscilloscopes really are the perfect travelling companions.

For a 5-MHz Single-Trace Miniscope, Take the Versatile 221.

With its 5-MHz bandwidth and a 5 mV/div to 100 V/div vertical sensitivity range, the 221 can be found in many industrial applications where its measurement capabilities and light weight are important.



Use the 3.5 pound (1.6 kg) 221 for on-screen viewing of signals up to 600 V dc plus peak ac. Or take advantage of its 5-MHz bandwidth to see high-frequency noise in modems.

This single-trace instrument has an integral 1 MΩ probe, and a rechargeable, internal battery to power it for three hours.

For a Combination DMM/Miniscope, Take the Unique 1-MHz 213.

For all those service engineers who are tired of carrying a toolbox full of heavy, bulky test equipment, we have a solution.

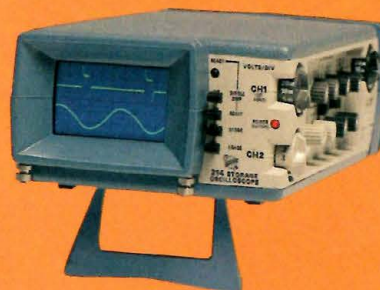


We call it the 213 DMM/Oscilloscope. This 3.7 pound (1.7 kg) test instrument combines a 3½-digit on-screen-readout DMM with a precision 1-MHz single-trace oscilloscope. Easy-to-use push-buttons let you select scope or DMM operation with voltage, current, or resistance measurement functions. The 5 mV/div to 100 V/div sensitivity range (20 mV/div at bandwidth) combines with other 200-Series features to make this scope a very capable performer.

Examine the 213 DMM/Oscilloscope. We think you'll agree that your test equipment package can be highly portable.

For a 500-kHz Dual-Trace Oscilloscope, Take the 212 Miniscope or the 214 Storage Miniscope.

A storage oscilloscope that weighs only 3.5 pounds (1.6 kg) and is battery powered would be a very useful instrument. It could be used for measuring low repeat waveforms in remote locations where line power is not available. Applications might include checking biomedical equipment, evaluating air-frame stress via transducers, or testing automobile seatbelt systems.



Some people thought it was impossible to build a storage oscilloscope which was that small.

To meet this challenge, we designed the TEKTRONIX 214. It weighs 3.5 pounds (1.6 kg); is battery powered; features bi-stable storage and a single-sweep mode; and has a vertical sensitivity range from 1 mV/div to 50 V/div (10 mV/div at bandwidth).

For applications that do not require storage, the 212 Miniscope is identical in all other respects.

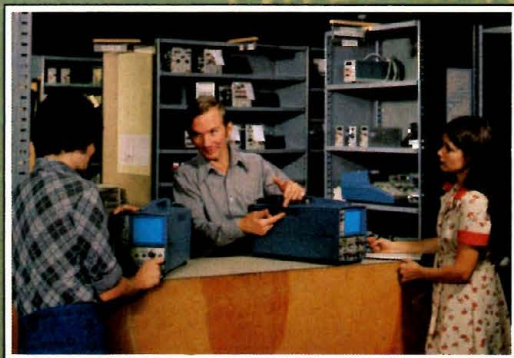
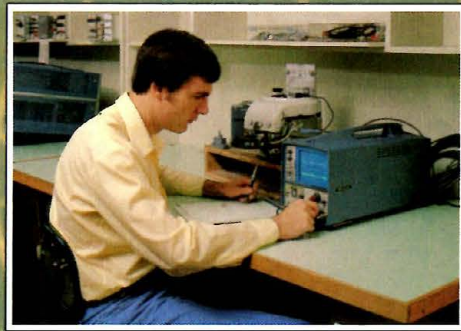
200-Series Oscilloscopes

- 221
- 214
- 213
- 212

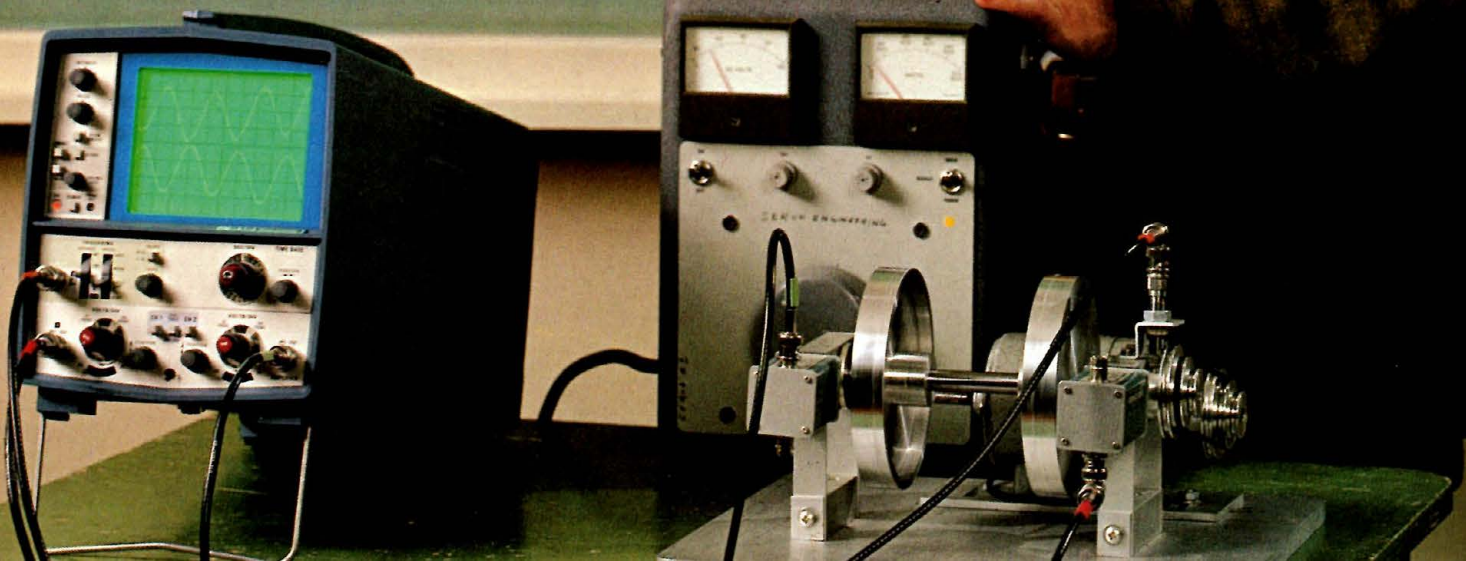
Options such as probe attenuator packages and special phosphors are available for 200-Series Miniscopes. Contact your Tektronix Field Engineer, Distributor or Representative, or consult our general catalog for information and specifications on all 200-Series Scopes and Accessories.

For Your Education and Production Testing Applications, Take a Low-Cost T900-Series Oscilloscope.

T900-Series Oscilloscopes combine low cost with Tektronix quality and reliability. Choose from five bench-top models and one new rackmount. Bandwidths range from 10 MHz to 35 MHz. Family capabilities include dual trace, delayed sweep, variable-trigger holdoff and bi-stable storage — all at a price your instrumentation budget will appreciate.



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We built several features into all our T900 scopes that make them ideal for education, production testing, consumer electronics repair, and general service applications. Their large, bright, easy to view, 8 x 10 cm crts are especially useful during classroom demonstrations. Simple control design and color-coded front panels make teaching scope operation fast and easy. For television repair, tv triggering capabilities are standard on the non-storage models. At 18 pounds (8.2 kg) or less, the five bench-top models are lightweight, rugged and easy to transport. And to make the price even more attractive, we include 10X attenuation probes with these five scopes.

The T900-Series design focuses on reliability and ease-of-operation. All active components are pretested to insure high reliability and 3% measurement accuracy. Modular circuitry simplifies calibration and repair. A beam finder helps you locate the trace. An internal graticule eliminates parallax errors in crucial measurements. A built-in delay line lets you see the leading edge of the triggering signal. And the dual-trace scopes feature automatic selection of chopped or alternative-sweep displays for best signal viewing.

For a Low-Cost 15-MHz Oscilloscope, Take the Single-Trace T921 or the Dual-Trace T922.



The T921 and T922 Oscilloscopes are cost-effective answers to most test and measurement applications where high bandwidths are not required. Educational institutions are using these two scopes on their student's workbenches. And since their front panel designs are similar, there's less chance of

operator confusion when using other T900 Instruments.

Both the T921 and T922 feature a 15-MHz bandwidth at 2 mV/div vertical sensitivity, and a 20 ns/div sweep rate with the X10 magnification control. The T922 has dual-trace operation and by ordering Option 01 you can add differential capability.

For a 35-MHz Oscilloscope with Variable-Trigger Holdoff or Delayed Sweep, Take the T932 or the T935.

Examine these two instruments closely. You'll find features you'd expect only in higher-priced oscilloscopes.



The T932 offers a 35-MHz bandwidth at 2 mV/div, a 10 ns/div sweep rate with the X10 magnification control and variable trigger holdoff. The T935, identical in all these respects to the T932, also has delayed-sweep capabilities.

Consider the T932 and T935 for your digital design and service applications. They're excellent price/performance combinations.

For a Low-Cost Bistable-Storage Oscilloscope, Take the 10-MHz T912.

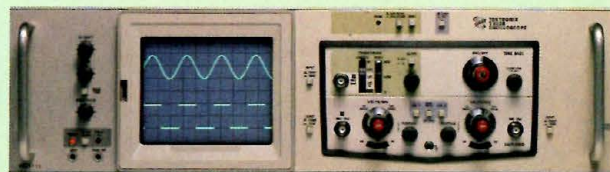
Wherever low-rep-rate or single-shot events must be ob-



served, a storage scope is required. The T912 offers this capability, along with a 10-MHz bandwidth at 2 mV/div, and a 50 ns/div sweep rate using the X10 magnification control — all at a surprisingly low price. The differential input (Option 01) is also available.

Students are finding the T912 useful for evaluating low-rep-rate biological signals or displaying single shot-events like engine-generated pressure curves. In industrial applications, the T912 is used for shock and vibration analysis and other transducer-aided measurements.

For a Versatile Rackmount Oscilloscope, Take the New T922R.



The new T922R Oscilloscope is our rackmountable version of the popular T922. In addition to standard features like its 15-MHz bandwidth at 2 mV/div vertical sensitivity, and its 20 ns/div maximum sweep rate with the X10 magnification control, we've added switchable front and rear inputs, single-sweep capability, selectable chop and alternate sweeps, graticule illumination and rear panel inputs and outputs. The T922R fits any standard 19-inch (.48 m) rack and weighs only 20 pounds (9.1 kg). Option 01 adds the differential capability.

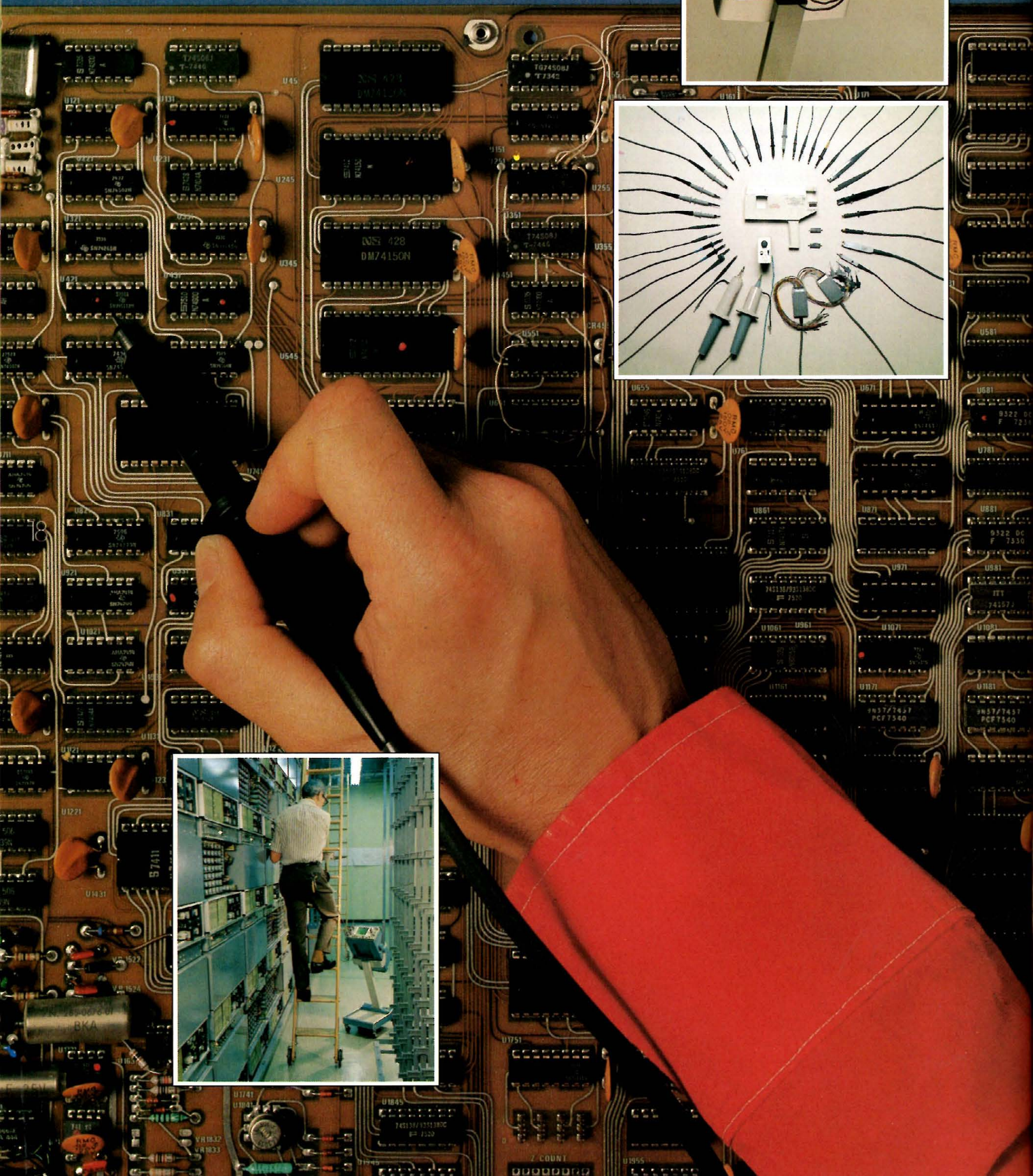
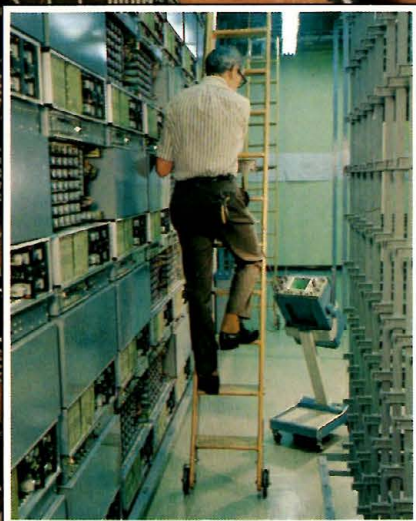
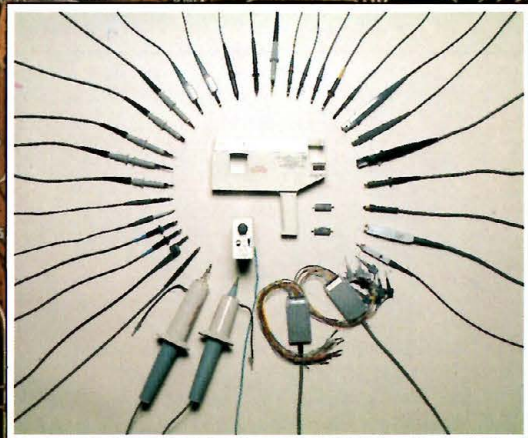
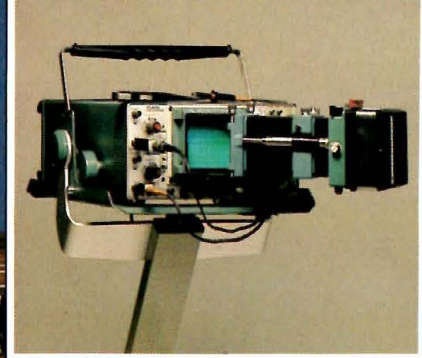
Many companies are using the T922R for their production testing applications — often as an inexpensive replacement for aging instruments which require frequent repair and calibration.

T900-Series Oscilloscopes

- T935
- T932
- T922
- T922R
- T921
- T912

Optional accessories such as a viewing hood and a front panel cover are available for T900-Series Oscilloscopes. Contact your Tektronix Field Engineer, Distributor or Representative, or consult our general catalog for information and specifications on all T900-Series Scopes and Accessories.

For a Complete
Oscilloscope System,
Take TEKTRONIX Accessories



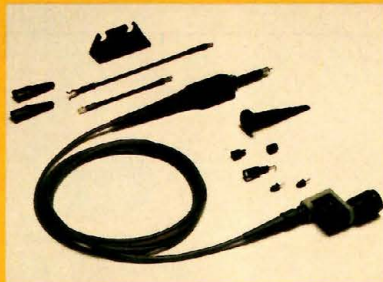
Extend your measurement capabilities with TEKTRONIX Probes, Cameras, Battery Packs and SCOPE-MOBILE Carts.

A complete line of voltage, current, temperature, FET, and logic probes are designed to work efficiently with your TEKTRONIX Oscilloscope. Scope cameras let you record the results of your work. Two battery packs can power your oscilloscope where line power isn't available. And a SCOPE-MOBILE Cart makes transporting your test equipment easy.

To match TEKTRONIX Accessories with your Portable Oscilloscope, find your model number on the selection chart. You'll see the included voltage probes, and recommended cameras, battery supplies, and carts for your TEKTRONIX Portable in the adjacent columns.

For Precise Measurements, Take TEKTRONIX Probes.

Once you own one of the world's finest oscilloscopes, make your measurements with the world's finest probes. TEKTRONIX Probes are designed to optimize the performance of your TEKTRONIX Portable. And there's over 40 different types to select from.



For voltage measurements, choose from our modular; switchable attenuation; low cost; high-voltage; or 50- Ω divider probe lines as shown in the accompanying chart. For measurements above 250 MHz, three active probes with high input resistance and low capacitance are available.

But voltage checks may not tell you all you need to know about the circuit. That's why we build six current probes to let you determine current characteristics without calculations and assumptions.

For temperature measurements with your DM 44 equipped scope, there's the P6430 Temperature Probe. The P6420 RF Probe is also compatible with the DM 44 and measures high frequency ac voltage from 10 kHz to 1 GHz.

This is only a part of the TEKTRONIX Probe story. Ask your Tektronix Field Engineer, Distributor or Representative for more information on how TEKTRONIX Probes can work in your application.

For Recording Your Results, Take a TEKTRONIX Camera.

For waveform photography with your 400-Series Portable, the C-30AP is ideal. This versatile camera has variable magnification, an interchangeable Polaroid pack film back, a medium-speed f1.9 lens and a mechanical shutter. Order the C-30AP for the 485, and the C-30AP Option 01 for all other 400-Series Scopes.

To record high-speed, single-shot waveforms, the C-31R Camera (similar in appearance to the C-30AP) is recommended. The C-31R retains all the popular features of the C-30A, has a fast f1.2 lens which results in a slightly smaller image size, and a Polaroid roll film pack. Combined with the 350-MHz 485, the C-31R's high-writing speed can be used to record fast transients.



For a highly-portable oscilloscope photography system use the C-30AP with your 326 or 335 SONY/TEKTRONIX Scope. Order the 016-0327-00 Adapter with the C-30AP for scope/camera compatibility.

The C-5A Camera is recommended for your T900-Series Oscilloscope. This low-cost camera features a graticule illuminating flash, a Polaroid pack film back and a fixed-focus f16 lens. Specify Option 03 for benchtop models, Option 01 for the T922R.

The C-5A Option 02 is usable with all 400-Series Portables except the 485. And to record waveforms on your 314, 323 or 200-Series Oscilloscope, the C-5A Camera can be hand-held against the crt.

For Powering Your Oscilloscope Where Line Power isn't Available, Take a TEKTRONIX Battery Pack.

Even if your oscilloscope doesn't have internal batteries, that doesn't mean you can't take it to the field. We've developed two battery supplies to power your TEKTRONIX Instrument in remote locations or to isolate it from noisy power lines.

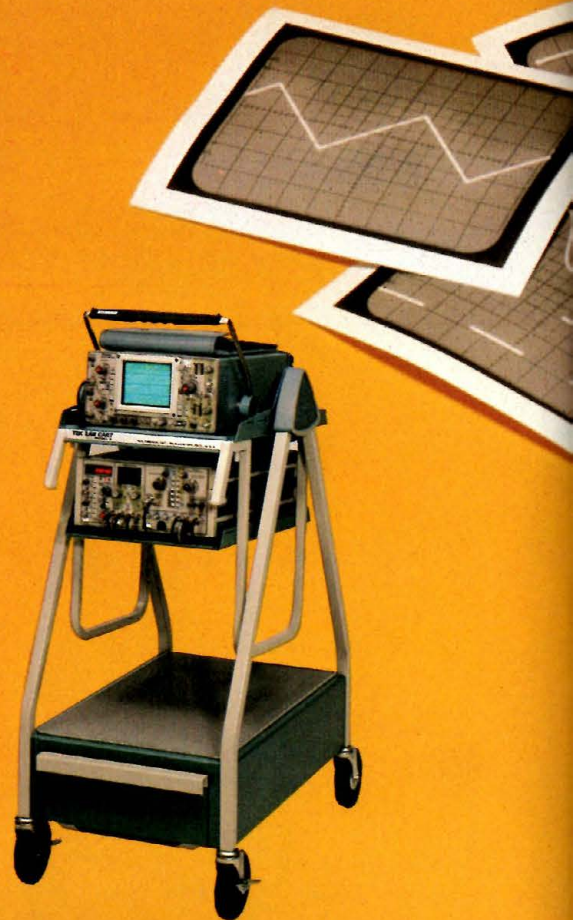


The 1106 Battery Pack is a convenient, snap-on battery power supply for TEKTRONIX 455, 464, 465, 466, 475 or 475A Oscilloscopes equipped with the Option 07 External Dc Operation capability. Take the 1106 with you for work in the field, or leave it at home when it isn't required. It weighs only 16 pounds (7.3 kg).

The 1105 Battery Supply (not shown) is a rugged portable unit suitable for powering most portable oscilloscopes in the field. It provides 108 volts to your instrument and weighs 19.5 pounds (8.8 kg).

For Transporting Your Test Equipment, Take a SCOPE-MOBILE Cart.

We build SCOPE-MOBILE Carts for all TEKTRONIX 400-Series Oscilloscopes and the rackmountable T922R. Because of their small size, a cart is not required for the 200, 300, or T900-Series Scopes.



For a High-Performance Measurement System, Take These Recommended TEKTRONIX Accessories.

Oscilloscope Model	Included* Probes	Recommended Camera	Recommended Battery Supply	Recommended Cart
485	NI	C-30AP C-31R	1105	200C
475A	2-P6106	C-30AP Opt 01	1106**	200C
475	2-P6106	C-30AP Opt 01	1106**	200C
466	2-P6062B	C-30AP Opt 01	1106**	200C
465	2-P6105	C-30AP Opt 01	1106**	200C
465M	1-P6101 2-P6104	C-30AP Opt 01	1105	200C
464	2-P6062B	C-30AP Opt 01	1106**	200C
455	2-P6105	C-30AP Opt 01	1106**	200C
434	2-P6105	C-30AP Opt 01	1105	200C
335	2-P6149	C-30AP***	1105	NA
326	2-P6149	C-30AP***	Internal	NA
323	1-P6149	C-5A (hand-held)	Internal	NA
314	2-P6149	C-5A (hand-held)	1105	NA
221	1-Integral 1 MΩ	C-5A (hand-held)	Internal	NA
214	2-Integral 1 MΩ	C-5A (hand-held)	Internal	NA
213	1-Integral 1 MΩ	C-5A (hand-held)	Internal	NA
212	2-Integral 1 MΩ	C-5A (hand-held)	Internal	NA
T935	2-P6108	C-5A Opt 03	1105	NA
T932	2-P6108	C-5A Opt 03	1105	NA
T922	2-P6006	C-5A Opt 03	1105	NA
T922R	NI	C-5A Opt 01	1105	Model 7 205
T921	1-P6006	C-5A Opt 03	1105	NA
T912	2-P6006	C-5A Opt 03	NA	NA

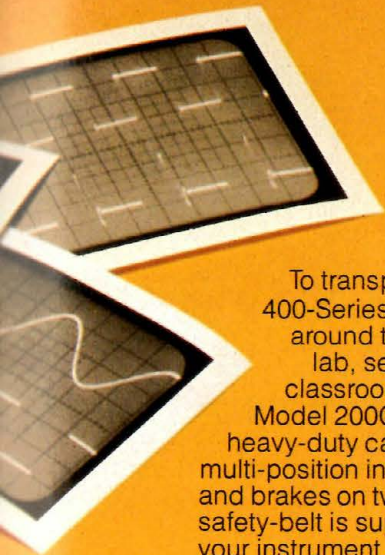
*For a list of other probes available for TEKTRONIX Portables, see the adjacent chart.

**Scope requires Option 07 for external dc compatibility

***Requires 016-1327-00 Adapter

NA = Not available

NI = Not included



To transport your 400-Series Oscilloscope around the research lab, service center or classroom, consider the Model 200C. This rugged, heavy-duty cart features a multi-position instrument tray and brakes on two wheels. And a safety-belt is supplied to secure your instrument.

If your test equipment includes TM 500 Modular Instrumentation, select the Model 3 Lab Cart. Your 400-Series Oscilloscope attaches to the top tray while the lower shelf holds your TM 500 Equipment. Probes, accessories and plug-ins can be stored in the lockable drawer. A power distribution module with a 15-foot (4.6 m) cord is also included.

For a rackmount equipment center on wheels, specify the new Model 7 Rack Cart (not shown). This rugged cart is designed to be used with standard 19-inch (.48 m) rackmounted systems — including the 15-MHz T922R Oscilloscope and rackmountable versions of 400-Series Portables. Or select the Model 205 Cart (not shown) with a rackmount tray and a storage drawer.

Here's What To Do For More Information.

Use the reply card in the back. We'll send you complete specifications on our Portable Oscilloscopes and Accessories. And talk to your Tektronix Field Engineer, Distributor or Representative. He's an expert in matching the right instrument to your application.

To reach us by mail, write: Tektronix, Inc., P.O. Box 500, Beaverton, OR 97077. In Europe: Tektronix Limited, P.O. Box 36, St. Peter Port, Guernsey, Channel Islands.

For Making Your Measurements, Take TEKTRONIX Probes.

Probe Type	Model Number	Features
Low-cost voltage probes	P6006 P6007 P6008 P6009 P6028 P6060	10X attenuation, 25-MHz bw in std. 6 foot (2.7 m) length 100X attenuation, 20-MHz bw in std. 6 foot (2.7 m) length 10X attenuation, 100-MHz bw in std. 6 foot (2.7 m) length 100X attenuation, 100-MHz bw in std. 9 foot (4.1 m) length 1X attenuation, 10-MHz bw in std. 6 foot (2.7 m) length 10X attenuation, 25-MHz bw in std. 6 foot (2.7 m) length
Modular voltage probes	P6101 P6105 P6106 P6108 P6149	1X attenuation, 15.5-MHz bw in std. 2 meter length 10X attenuation, 100-MHz bw in std. 2 meter length, readout 10X attenuation, 250-MHz bw in 1 meter length, readout 10X attenuation, 100-MHz bw in std. 2 meter length 10X attenuation, 50-MHz bw in std. 2 meter length
Switchable-attenuation voltage probes	P6062B P6063B	1X or 10X attenuation, 100-MHz bw in std. 6 foot (2.7 m) length, readout 1X or 10X attenuation, 200-MHz bw in std. 6 foot (2.7 m) length, readout
High voltage probes	P6013A P6015	1000X attenuation, 80-MHz bw in std. 10 foot (4.5 m) length 1000X attenuation, 75-MHz bw in std. 10 foot (4.5 m) length
50Ω divider probes	P6056 P6057	10X attenuation, for 50Ω inputs 100X attenuation, for 50Ω inputs
Current probes	P6302/AM 503 P6303/AM 503 P6021 P6022 CT 1 CT 2 CT 5	1-mA to 20-A dc measurement range, 50-A peak to peak 5-mA to 100-A dc measurement range, 500-A peak to peak 120-Hz to 60-MHz measurement range 935-Hz to 200-MHz bw, small jaw size Measures 1-GHz ac currents for 50Ω systems Measures 100-MHz ac currents, can be wired into circuit and used for test point Extends current measurements to 50,000-A peak
FET probes	P6202 P6201 P6046	10X attenuation, 500-MHz bw, self-contained power supply, dc offset 1X, 10X or 100X attenuation, 900-MHz bw, dc offset CMRR 1000: 1 at 50 MHz
Rf probe	P6420	10 KHz to 1 Ghz, measures flatness of sine wave outputs
Temperature probe	P6430	-55°C to +150°C

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