



vintageTEK Photo Tour March 2025

Tektronix First Ad Sept 1948 Electronics Magazine



Versatility... Plus

The Tektronix Type 511 is available with built-in calibration for other forms of measurement in any position, including horizontal.

SWEEP CHARACTERISTICS

Horizontal sweep is linear and constant in time. Vertical sweep is linear and constant in time. Both sweeps are constant in time.

VERTICAL MEASUREMENT SYSTEM

Vertical measurement system is linear and constant in time. Both sweeps are constant in time.

MISCELLANEOUS

Price \$750.00 U.S. Postpaid. Tektronix, Inc., 111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

111 S. Washington Ave., Portland, Ore.

Type 101 Video Calibrator

This Type 101 Video Calibrator is a very important instrument and one of the most grand instruments in the museum.

In 1948 Howard Vallum was finishing up the design of his oscilloscope and the company needed to prepare for manufacturing. This was by no means a simple task as purchasing, assembly, test, and shipping departments all needed to be set up, people had to be hired and trained, and procedures had to be written.

Miles Tipper, one of the three founders of Tektronix and responsible for operations, described setting up manufacturing in his autobiography.

Lowell Hadley was hired and given the assignment of setting up facilities for producing our first batch of oscilloscopes. As it was obviously going to take several months to get these instruments into the production stage it was decided to do something simpler for our first venture into the manufacturing business.

Howard had designed a small calibration instrument to use in connection with perfecting the oscilloscope circuits. He felt that this instrument would have some acceptance for laboratory use and would provide a temporary source of income.

A production run of ten of these instruments was manufactured with the idea that another run would be manufactured if the first ten sold readily. Unfortunately, there was not much demand for an oscilloscope calibrator at this time. Therefore, it would have to be admitted that the first Tektronix venture into the manufacturing business turned out to be a disappointing failure.

Tektronix production oscilloscopes started with serial number 101. Note the unique serial number on the Type 101 of 11481 - which stands for November, 1948, #1. This Type 101 Video Calibrator is indeed the very first Tektronix product.

Type 511 Oscilloscope

The Type 511 was Tektronix first oscilloscope model. It was introduced in 1947 and the first instrument was bought by Dr. Archie Tunturi at the University of Oregon Medical School (later to become OHSU) and was shipped in July.

The 511 initially sold for \$595.00, compared to \$1,800.00 for a two-glass DuMont scope that was mostly pre-war technology. Later the price was raised to \$795.00.

"511" stood for a 5" CRT, 1 channel, 1" model. This nomenclature convention only lasted for a short time being followed by the 512, 513, and 514 oscilloscopes.

The first mention of the 511 appeared in the April 1948 issue of Electronics. It wasn't called the 511, simply the Vallum oscilloscope.

The first advertisements for the 511 appeared in the September 1948 issues of The Review Of Scientific Instruments, Proceedings of the IRE, and Electronics.

Howard started this oscilloscope design in his parent's basement and later moved to the M. J. Murdock Company on 67th and Foster Road in Portland. That later proved to be too small and eventually Jack Murdock moved his store to 7th and Hawthorne in downtown Portland where manufacturing first began.

Tektronix started the serial numbers at 101. This oscilloscope is serial number 481 or it is the 340th Type 511 oscilloscope manufactured.

The oscilloscope was an instant success and the newly formed company found themselves working three shifts to meet demand. The 511 had a bandwidth of 10 MHz and a vertical sensitivity of 125 mV/cm. Later an "A" revision improved some features including a regulated power supply and a "D" revision added a delay line to be able to view what your triggered on.



SON

1950 512 OSCILLOSCOPE

The 512 is the second oscilloscope sold commercially by Tektronix. Introduced in 1950, it sold for \$950 and last appeared in the Tek Catalog in 1954 when it was replaced by the 530 Series.

The 512 had a DC coupled differential vertical amplifier with a bandwidth of 1 MHz at a sensitivity of 0.005 volts per centimeter and 2 MHz at less sensitivity. These new features made it an excellent instrument for biophysical measurements.

1950 513-D OSCILLOSCOPE

The 513-D has a direct coupled vertical amplifier with a rise time of 0.025 usec extending its usefulness beyond the limits any previous general laboratory oscilloscope.

The 513-D has a bandwidth of DC to 20 MHz at a sensitivity of 0.3 volts per centimeter. Its bandwidth is 2 cycles to 18 MHz at a sensitivity of 0.03 volts per centimeter.

The initial selling price was \$1,650.00.

1950 514-D OSCILLOSCOPE

The 514-D has a bandwidth of DC to 10 MHz at a sensitivity of 0.3 volts per centimeter. Its sensitivity is extended to 0.03 volts per centimeter with capacitive coupling only.

Two separate input connectors allows the user to switch between either of two signal sources.

The initial selling price was \$950.00.



32

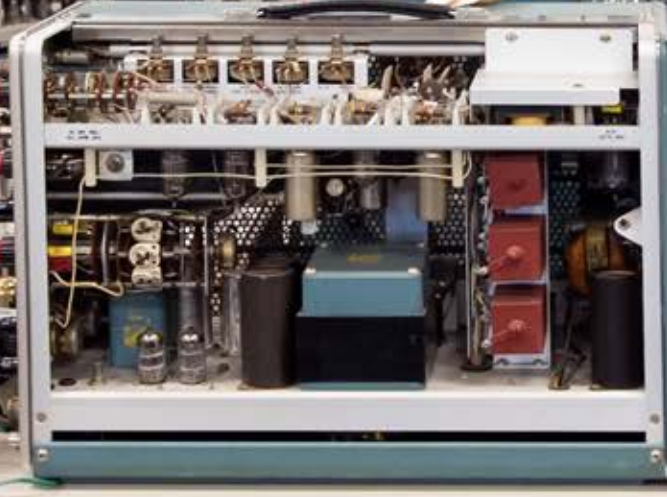
575 Curve Tracer
The 575 first appeared in the May 1957 Tektronics Catalog. The 575 was the first Transistor Curve Tracer and enjoyed an unusually long useful life of 18 years, first appearing in the 1972 New Instrument Brochure.
The 575 initially sold for \$825 and received serious competition from the Fairchild 6200A Curve Tracer during the last couple of years of its life. It was replaced by the Tektronix 576 in 1972.



34



YAMAHA PERSONAL STUDIO SYSTEM
MS10 MONITOR SPEAKER



315D Oscilloscope
The 315D first appeared at the March 1951 Tek-one Catalog priced at \$775. Baseprice was only about \$400. In 1952 the 315D had a finer, accurate integrating timebase using a new inductive timebase triggering system. First to use two 6AR5 sockets and famous clips to mount components. First Tek screen using a 3 inch CRT and was lighter and smaller than all the previous models from the 300's.

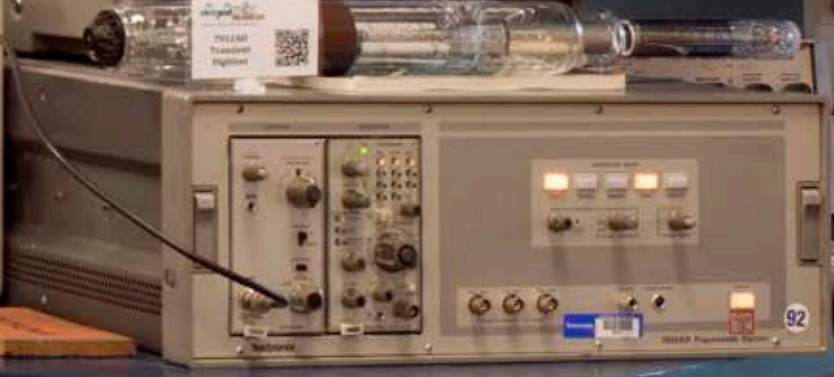
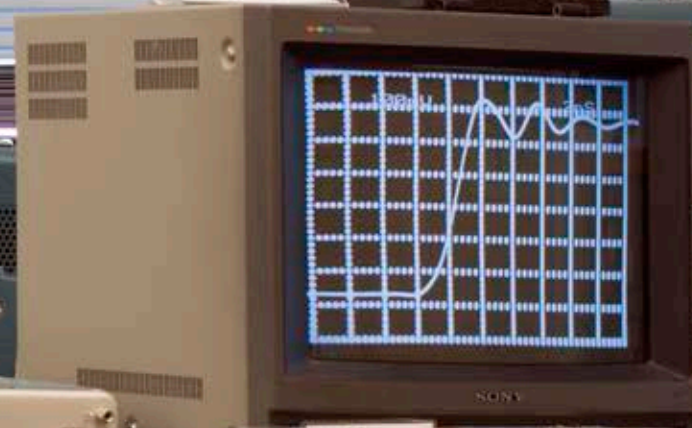
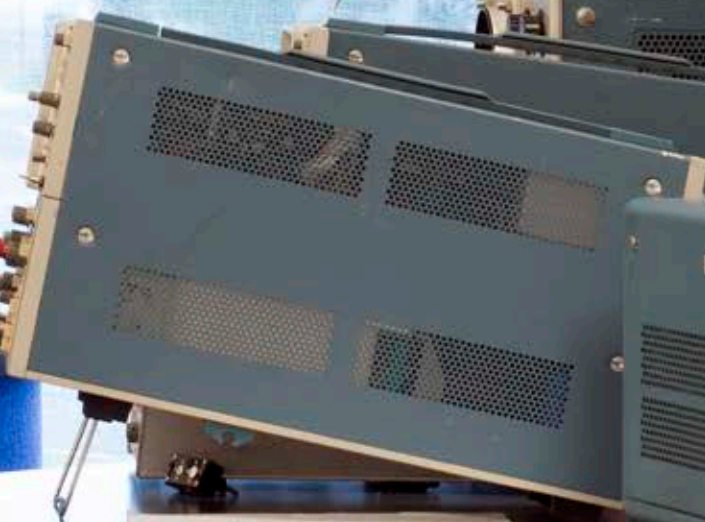
30

514D OSCILLOSCOPE
The 514D has a bandwidth of 50 MHz and a sensitivity of 10 mV/cm. It is a benchtop instrument with a built-in 100 MHz video pre-amplifier and a 100 MHz video probe. It is a benchtop instrument with a built-in 100 MHz video pre-amplifier and a 100 MHz video probe.

RT912 Transient Digitizer
The RT912 first appeared in the 1970s Tektronix Catalog. It is a benchtop Transient Digitizer available with many different acquisition storage options. The selling price was originally \$8,400 which did not include any of the available storage or display options. (MSRP \$10,400 to \$14,400 depending upon which option you select.)

519 Oscilloscope
The 519 first appeared in the 1970s Tektronix Catalog. It is a benchtop Oscilloscope with a built-in 100 MHz video pre-amplifier and a 100 MHz video probe. It is a benchtop instrument with a built-in 100 MHz video pre-amplifier and a 100 MHz video probe.

TYPE 519 OSCILLOSCOPE
The 519 first appeared in the 1970s Tektronix Catalog. It is a benchtop Oscilloscope with a built-in 100 MHz video pre-amplifier and a 100 MHz video probe. It is a benchtop instrument with a built-in 100 MHz video pre-amplifier and a 100 MHz video probe.





PIN: 0161









Informational poster with images of electronic components and text.

Scientific 895 Calculator

Tek 31 Calculator

Informational poster with text and a small image.





1950
CA Plug-in Unit
The CA first appeared in the May 1953 Tektronix Catalog. The CA is a dual-trace plug-in with 24 MHz bandwidth when used in a 540 Series Oscilloscope.
A significant improvement over the previous and similar type 5354C plug-in. The CA allowed the channels to be added algebraically and when the channel is inverted, it has limited use as a differential amplifier.
The CA initially sold for \$250.
Vintage Tek

TYPE 541 OSCILLOSCOPE

SWEEP
VERTICAL POSITIONING LEVEL
HORIZONTAL DISPLAY
MAGNIFY
SPECIAL SWEEP SYNCHRONIZER (SIS)
EXTERNAL TRIGGER IN
INTERNAL TRIGGER IN

TYPE 53C PLUG-IN UNIT
POLARITY
GAIN
SIGNAL INVERTER
DUAL TRACE
CROSSING POINT
POLARITY
GAIN

SQUARE-WAVE CALIBRATOR
WATERMARK
POWER

TEKTRONIX, INC., WILSONVILLE, OREGON, U.S.A.

TYPE 538 OSCILLOSCOPE

TYPE 538A PLUG-IN UNIT

TYPE 538B PLUG-IN UNIT

TYPE 540 OSCILLOSCOPE

TYPE 540A PLUG-IN UNIT

TYPE 540B PLUG-IN UNIT



Tektronix 4016-1

Input text followed by RETURN
Type RETURN alone to exit

32 Glass 19 Drawer

vir





1980 2000 Fiber Optic Test System Information - 1980
The 2000 Fiber Optic Test System Information - 1980
This system is used for testing fiber optic cables and components. It consists of a light source, a fiber optic cable, and a detector. The system is used to measure the loss of light in the cable and to identify any faults or damage. The system is used in a variety of applications, including telecommunications, medical, and industrial.

1980 2000 Fiber Optic Test System Information - 1980
This system is used for testing fiber optic cables and components. It consists of a light source, a fiber optic cable, and a detector. The system is used to measure the loss of light in the cable and to identify any faults or damage. The system is used in a variety of applications, including telecommunications, medical, and industrial.

1980
OF-100 Fiber Optic TDR
The OF-100 Fiber Optic TDR is a portable test system used for testing fiber optic cables. It consists of a light source, a fiber optic cable, and a detector. The system is used to measure the loss of light in the cable and to identify any faults or damage. The system is used in a variety of applications, including telecommunications, medical, and industrial.



In this demo the 7220/220 is displaying the wavelength peaks of the emitted light from the lamp. Watch the peaks change with the color of the lamp.



Block diagram of the 7220/220

vintage museum

7220 Light Processor

FRAGILE 1

7220 LIGHT PROCESSOR

Kironix



413 Oscilloscope 1966
The 413 first appeared in the 1960s. It was the first to use a microprocessor. The 413 has a resolution of 200 lines and a bandwidth of 100 MHz. It was the first to use a microprocessor and a digital display. It was the first to use a microprocessor and a digital display. It was the first to use a microprocessor and a digital display.

413 Oscilloscope 1966
The 413 first appeared in the 1960s. It was the first to use a microprocessor. The 413 has a resolution of 200 lines and a bandwidth of 100 MHz. It was the first to use a microprocessor and a digital display. It was the first to use a microprocessor and a digital display. It was the first to use a microprocessor and a digital display.

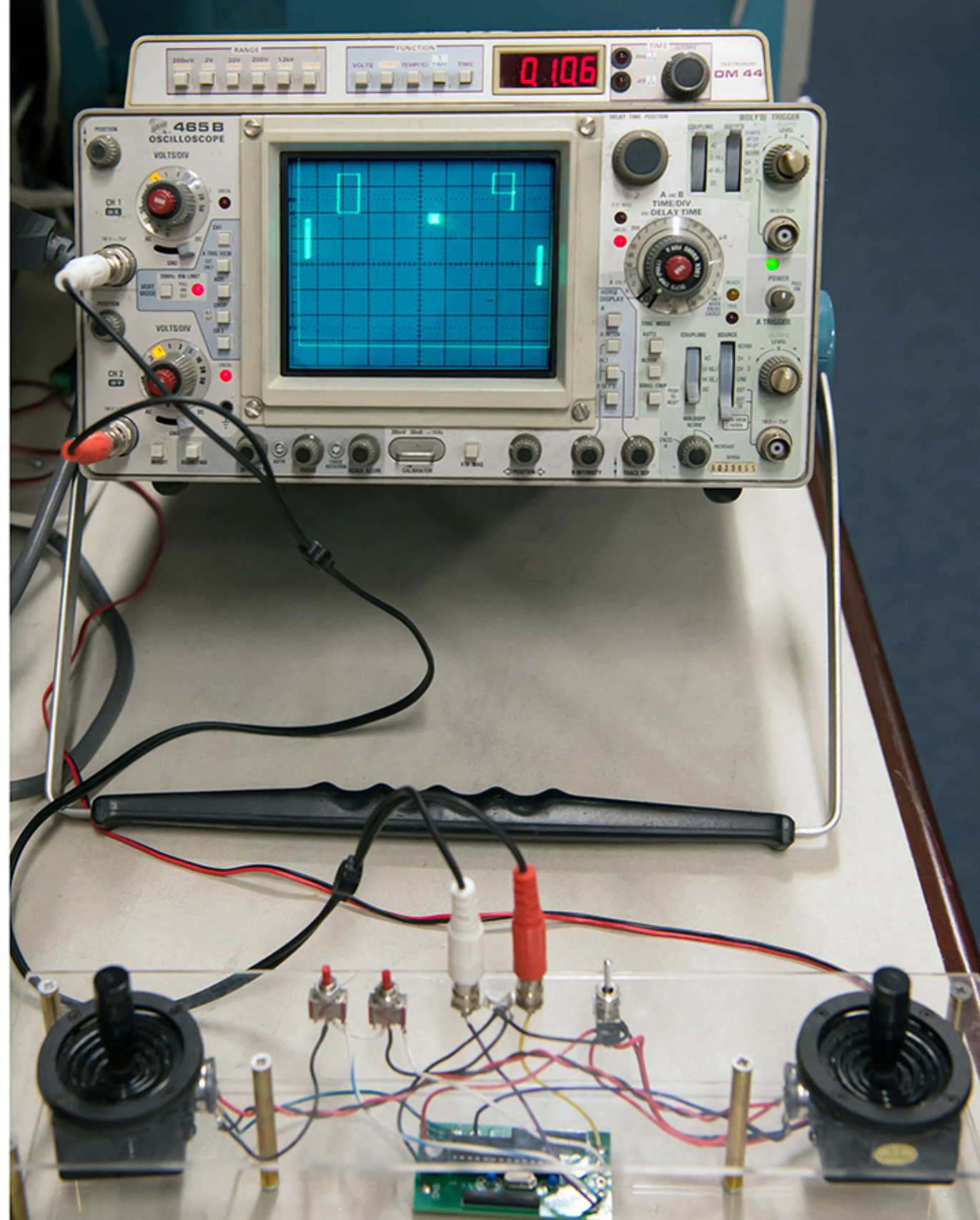
413 Oscilloscope 1966
The 413 first appeared in the 1960s. It was the first to use a microprocessor. The 413 has a resolution of 200 lines and a bandwidth of 100 MHz. It was the first to use a microprocessor and a digital display. It was the first to use a microprocessor and a digital display. It was the first to use a microprocessor and a digital display.



37









128 Logic Analyzer - 1284
The 128 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.

1284
The 1284 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.

1284
The 1284 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.

1284
The 1284 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.

1284
The 1284 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.

Scope Artist
Create your own Scope Art! Turn the ugly wave and dig the beautiful into the art! The Scope Artist does this!
If all pieces will be submitted to the artist.

1284
The 1284 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.

1284
The 1284 is a compact 10 channel logic analyzer featuring both active and passive probe inputs. It supports up to 10 pins. It has a built-in logic analyzer for hardware analysis. It features a processor to analyze data and provide the location and timing of the events. It is available in a 10-pin version or a 20-pin version. It is available in a 10-pin version or a 20-pin version.



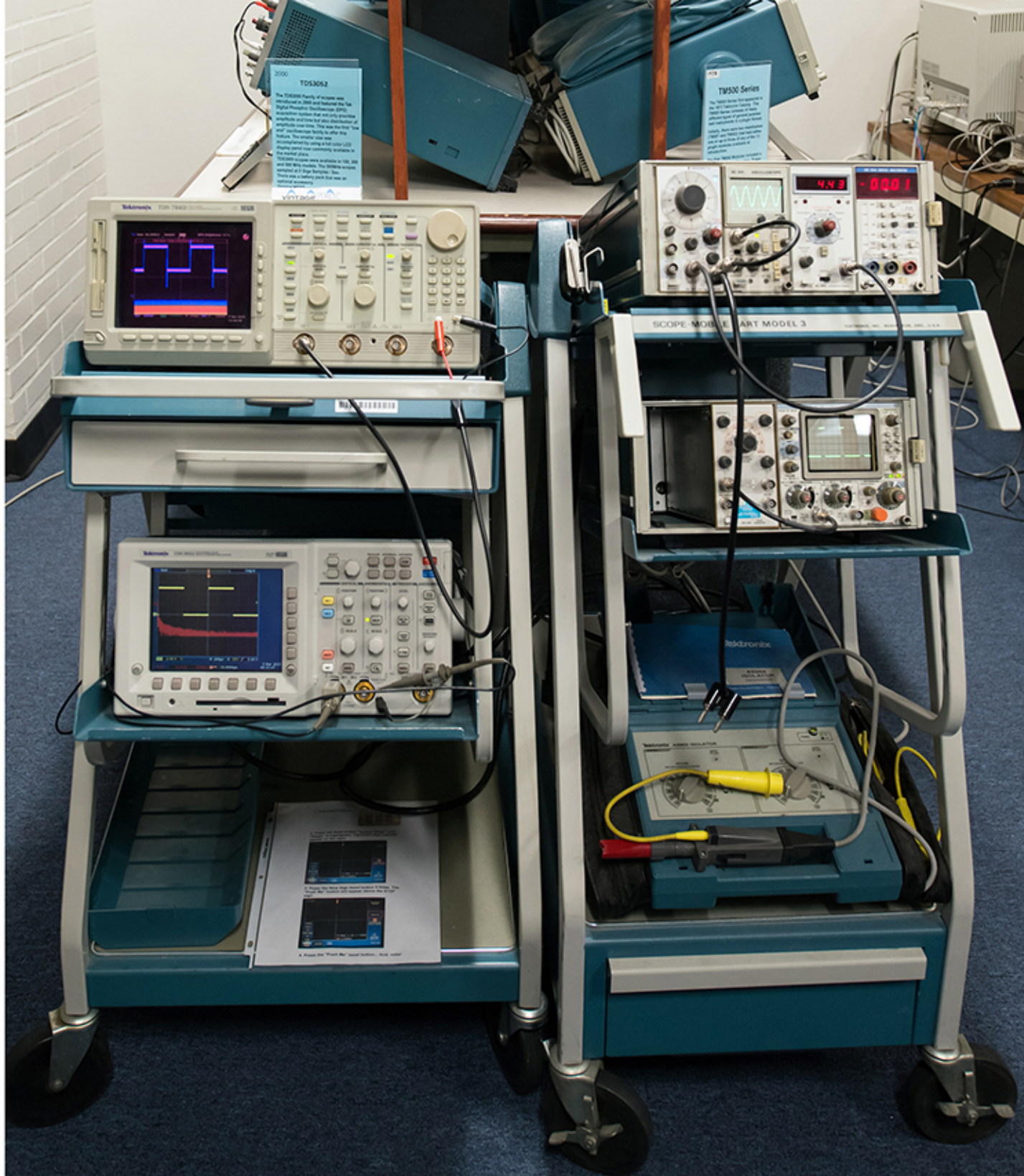
SPARE PARTS KIT

WIDE SWEEP
RELATIVE SWEEP
CHANNEL A
CHANNEL B

TYPE 200A
SCOPE MODEL

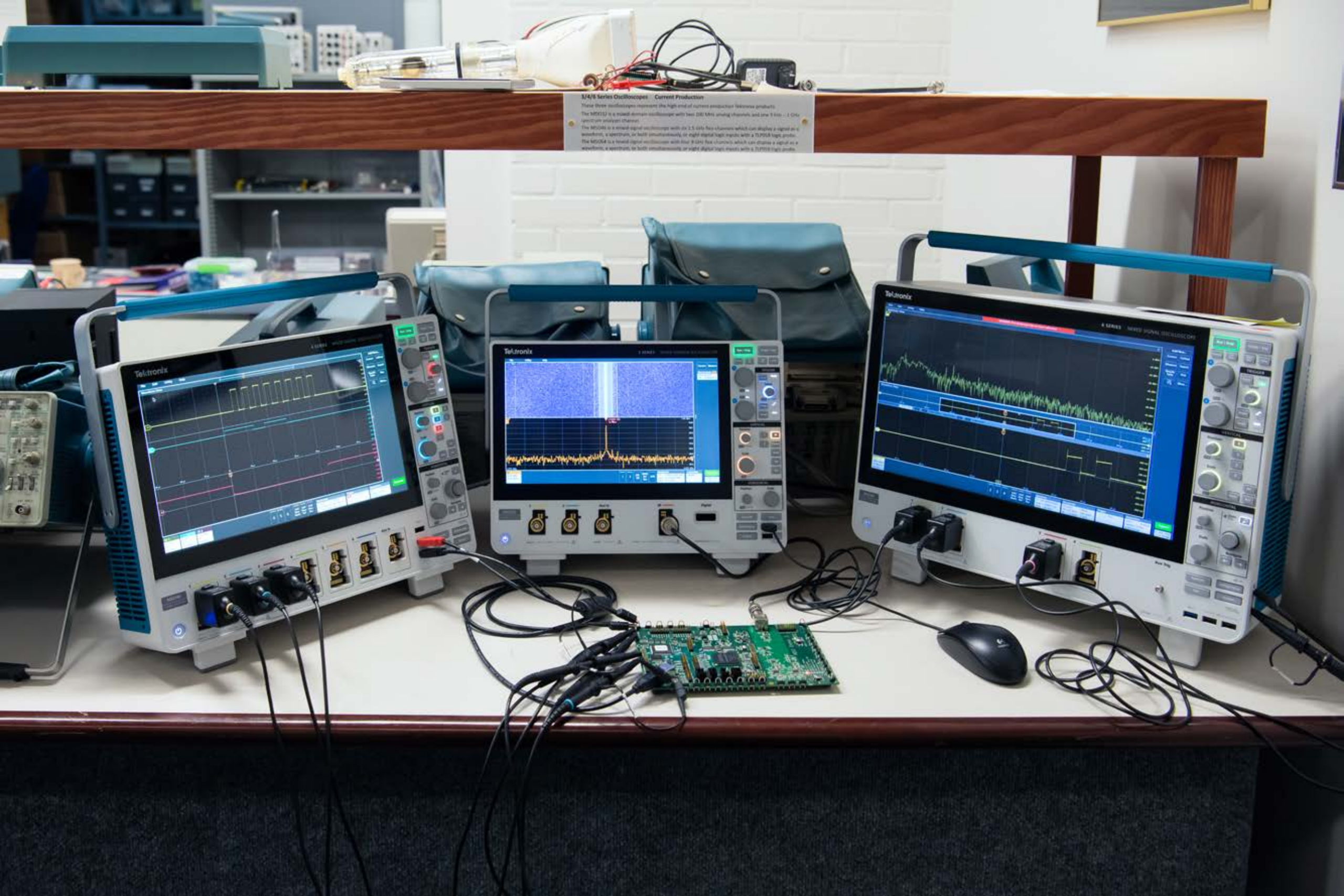
Vintage Restoration
No Public Access

33



345 Series Oscilloscopes - Current Production

These three oscilloscopes represent the high end of current production Tektronix products. The MS212 is a mixed-domain oscilloscope with two 100 MHz analog channels and one 1 GHz spectrum analyzer channel. The MS246 is a mixed-signal oscilloscope with six 2.5 GHz Real-Time channels which can display a signal in a waveform, a spectrum, or both simultaneously, or eight digital logic inputs with a 70 PSIA logic probe. The MS204 is a mixed-signal oscilloscope with four 8 GHz Real-Time channels which can display a signal in a waveform, a spectrum, or both simultaneously, or eight digital logic inputs with a 70 PSIA logic probe.





Informational text labels for the exhibit items.

A collection of vintage electronic equipment is displayed on a white table with a wooden top. From left to right, there is a large oscilloscope, a smaller oscilloscope on a stand, another oscilloscope on a stand, a large blue oscilloscope, a black speaker, and a smaller oscilloscope on a stand. A small circuit board is also visible on the table. The equipment is arranged in a way that allows visitors to interact with it.

28



R A R I

For information call 800-835-6100

Tektronix





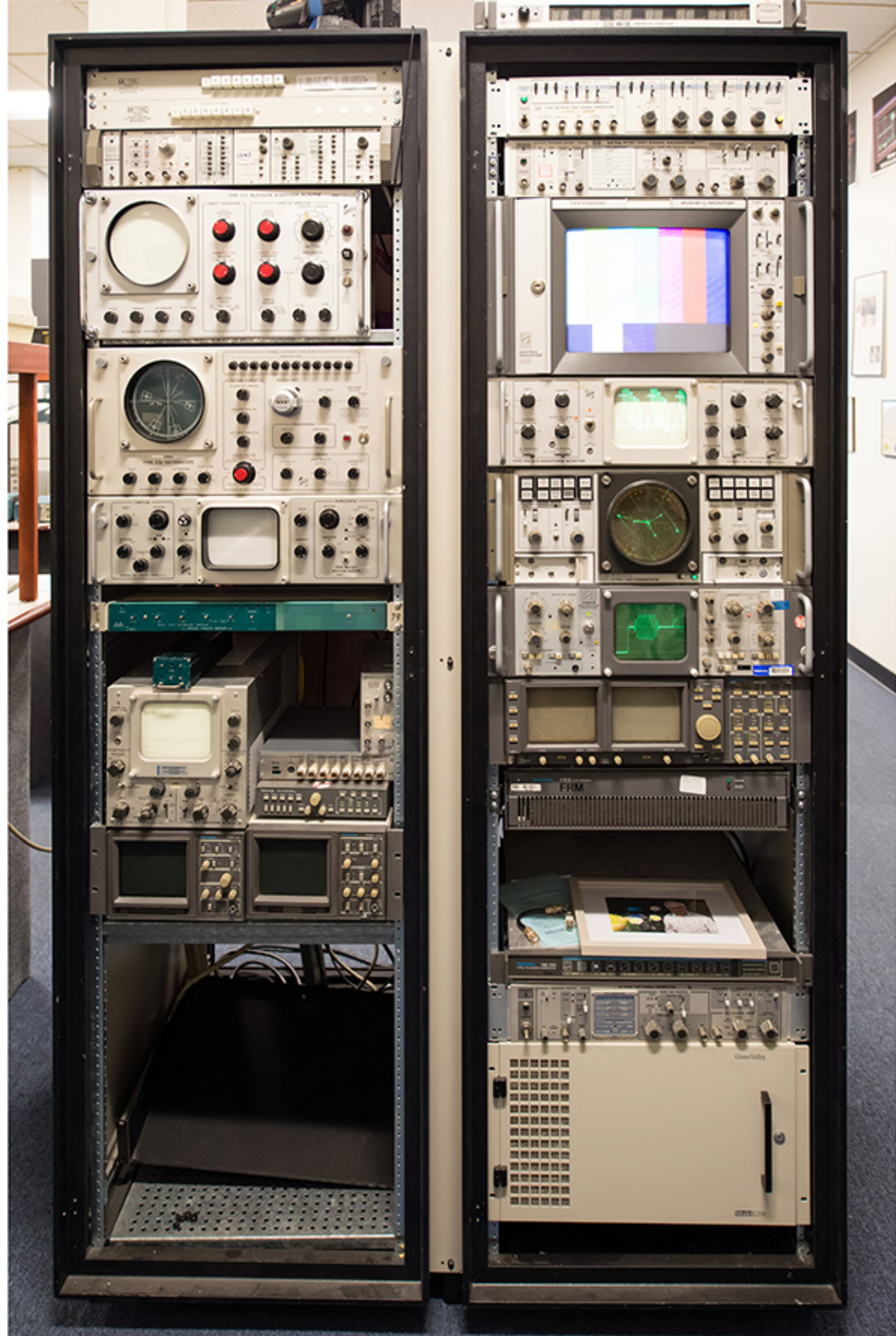
vintage **tek** museum
Restoration Room
No Public Access





MODEL 100
SPARE PARTS KIT









Do You Have the Right Probe
and the Wrong Ground Lead?



State





WE OWN IT
Legacy of Innovation and Excellence
vintage ELECTRONICS
MUSEUM

Vintage Electronics Museum



TEKTRONIX

Tektronix "bling"

Tektronix
Laboratory

MASTERS 85

Stan
Gardner



TR151 Avionics Color CRT
Used in USAF C17

T647 CRT
Electron gun by Christian Wilhelm

E129
1 1/2" x 1 1/2" x 1 1/2" (approx.)

Early E51
First Tektronix standard CRT
Used in oscilloscopes

Custom CRT for Link Electronics
Used in oscilloscopes

11000 CRT
Used in oscilloscopes. High beam
width. 1 1/2" x 1 1/2" x 1 1/2" (approx.)

Early Tektronix CRT
Used in oscilloscopes

Early Tektronix CRT
Used in oscilloscopes

Handwritten notes on a piece of paper, including the name "J. Smith" and various illegible text.

Tektronix



INTRODUCING

Tektronix K415

Tektronix®



SOUNDS UNLIMITED
MARTY GOLD
and His Orchestra

119370
531A Sweep Lee Vout

Tektronix Phase

26