

**Four Color Plotter** (HC100 with Option 01, shown above, includes GPIB cable) for hardcopy from a digital instrument in 90 seconds—no external controller required! For use with 11403 Oscilloscope and DSA 601 and 602 Digitizing Signal Analyzers.

HC100 with Centronics Cable 012-0911-00 (not shown)

## OPTIONAL ACCESSORIES

**Rackmount Conversion Kit** 040-1214-01

### Cables

GPIB, 2 meters 012-0991-00

RS-232, 10 feet 012-0911-00

### Blank Plug-in Chassis

016-0829-00

## SOFTWARE PACKAGES

### ASYST Modules 1, 2, 3

Automatic Graphics with Modifiable Defaults; High Resolution and Color-Graphics Support

### Digitizer Driver for ASYST

Pulse Parameter Analysis, Waveform Differentiation, and FFT

### Tek 11400/HP 200/300 Series TAMS (Time and Amplitude Measurement Software)

Pulse Parameter Analysis, Propagation Delay Measurements, and FFT; Hardcopy Support

### Tek 11300 IBM Utility

Automated and Manual Logging, Graphing, and Histograms of Measurement Data; BASIC Source Code

### i-Pattern Software

Voltage Timing Histograms; User Definable Masks for Telecom Testing and Monitoring

### Tek 11000 Series DSO Utility Software

Automated and Manual Logging, Graphing, and Histograms of Measurement Data; BASIC Source Code

### Tek 11400 IBM ASYST Driver

PC Display of 512 to 10,240-point Waveform Records; FFT's on Records to 8,192 points


### Tek Template/Waveform Process Program

Autogeneration of Starting Template; Act-on-Delta Processing

## QUALITY, IN QUANTITY. WORLDWIDE.

For further information or to order, contact your nearest Tektronix sales office or distributor or call one of the phone numbers listed below:

**Australia** (02) 888-7066  
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**Canada** (705) 737-2700  
**China** 86(1) 890721-x102, 8021657  
**Denmark** (45) 42-97-56-22  
**Finland** (90) 722-400  
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67-14-89 6/89 22M OPP

60W-7348

## LABORATORY INSTRUMENTS REFERENCE GUIDE

TEKTRONIX  
ACCESSORIES



**Tektronix**  
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**Your #1 source for oscilloscope accessories.** You'll find here many of Tek's most popular test and measurement accessories for DSA 600 Series Digitizing Signal Analyzers and 11000 Series Oscilloscopes—probes, carts, cameras, clips and many more. Each one is engineered, tested and assembled to provide an optimal link between your instrument and device under test. You're sure to find a perfect match for your application!



**PROBES**

**High Voltage/Isolation Measurements**

**P6009 High Voltage Probe** (shown below) 1500 V (dc + pk ac), 100X, 120 MHz



**A6902B Voltage Isolation Amplifier** (not shown) 500 V max (dc + pk ac), 20 MHz    Option 02 with 3 kV probes

**Current Measurements**

**AM503S DC/AC Current Probe System** (shown at right)



**P6022 AC Current Probe** (not shown) 6 A CW, 8.5 kHz to 120 MHz  
**CT-1 AC Current Transformer** (not shown) 1.4 A pk-pk (12 A pk max), 1,000 V max (dc + pk ac), 25 kHz to 1 GHz

A variety of circuit attachment accessories are included with every probe. Probe specifications are derated with frequency and voltage.

**High Frequency/Low Impedance Measurements**

Probe power for active probes supplied through TEKPROBE™ Interface (BNC)

**P6203 Active (Bipolar) Probe** (not shown) 1 GHz,  $\leq 2$  pF/10 k $\Omega$ , 10X

**P6204 Active (FET) Probe** (shown below) 1 GHz (1.1 GHz typical),  $\leq 1.9$  pF/10 M $\Omega$ , 10X



**P6231 Active (Bias/Offset) Probe** (not shown) 1.5 GHz,  $\leq 1.6$  pF/450  $\Omega$ , 10X

**P6501 Option 02 Active Microprobe** (not shown) 750 MHz,  $\leq 1.8$  pF/1 M $\Omega$ , 10X

**Spring Contact Fixtured Probes\***

**P6511/P6513** (not shown) 300 MHz, 3.8 pF/1 M $\Omega$ , 10X, 100 MIL Spacing

**P6515/P6517** (shown below) 250 MHz, 4.0 pF/1 M $\Omega$ , 10X, 50 MIL Spacing



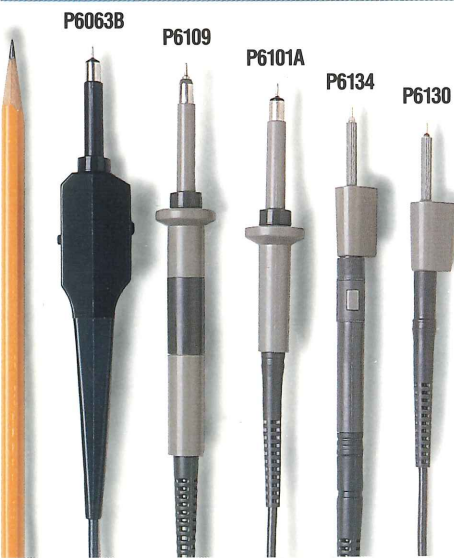
\*Probe power supplied through 1102 Power Supply or equivalent.

**50 Ohm Microwave/Frequency Domain Measurements**

**P6150 Low Impedance Zo (50  $\Omega$ ) Voltage Probe** (shown below) 9 GHz,  $\leq 0.15$  pF/500  $\Omega$ , 1X, 10X, SMA interface for use with 11801/11802 Oscilloscopes



**P6156 Low Impedance Zo (50  $\Omega$ ) Voltage Probe** (shown below) 3.5 GHz,  $\leq 1$  pF/500  $\Omega$ , 10X (Option available for 1X, 20X and 100X)



**Voltage Measurements**

**Passive Voltage Probes**

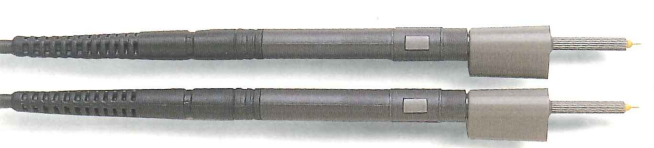
	P6063B	P6109	P6101A	P6134	P6130
Attenuation	1X/10X	10X	1X	10X	10X
Bandwidth	12 MHz/200 MHz	150 MHz	34 MHz	300 MHz	250 MHz
Loading	11 pF/10 M $\Omega$	13.2 pF/10 M $\Omega$	—	11.3 pF/10 M $\Omega$	13.2 pF/10 M $\Omega$
Tip Size	Miniature	Miniature	Miniature	Subminiature	Subminiature
Special	—	Ruggedized	—	Identify Button	—

**Differential Measurements**

**P6046 FET Differential Probe** (shown below) 100 MHz, CMRR—10,000:1,  $\leq 10$  pF/1 M $\Omega$ , 1X, 10X, 250 V with 10X attenuation

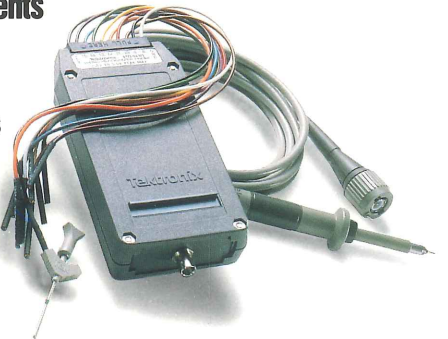


**P6135 Differential Probe Pair** (shown below) 150 MHz, CMRR-10,000:1, 11.3 pF/1 M $\Omega$ , 10X adjustable, 500 V (dc + pk ac)



**Logic Measurements**

**P6408 Logic Trigger Probe** (shown at right) for TTL and TTL compatible logic, 16 bit plus qualifier



**Optical Measurements**

**Optical to Electrical Converters**

**P6701** 700 MHz, 450-1050 nanometers

**P6702** 500 MHz, 1000-1700 nanometers

**P6703** 1 GHz, 1100-1700 nanometers

**Optical Adapters**

**P6751 Spatial Input Head**





PROBE ACCESSORIES

Accessories Packages provide a selection of commonly used ground leads and probe tip attachments for easy connection to the device under test (DUT).

020-1724-00 (shown at right) for miniature sized probe tips



020-1725-00 (shown at right) for subminiature and compact sized probe tips



020-1693-00 SMA Accessory Kit for 11800 Oscilloscope (not shown)

BNC Adapter Kit AK01 (shown at right) allows you to properly match your attenuation and connector type to the input on your oscilloscope. It includes a selection of BNC terminators, attenuators, cables and connectors.



Probe Tip to Circuit Board Adapters

Packages of 25:  
131-4353-00 Miniature probe tips  
131-5031-00 Compact probe tips  
131-5030-00 Subminiature probe tips

Chassis Mount Test Jack To Probe Tip Adapters

131-0258-00 Miniature probe tip  
131-4210-00 Compact probe tip  
013-0240-00 Subminiature probe tip

BNC Terminators

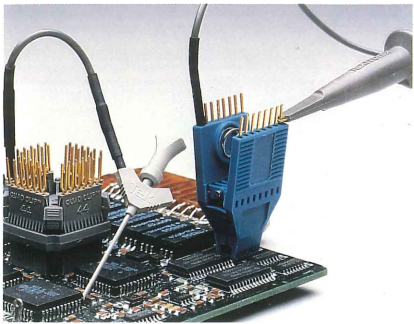
011-0049-01 Feed-through Terminator, 50 Ω

Coaxial BNC Cables

012-0076-00, 50 Ω, 18 inch

SMA to BNC Adapters

015-0554-00 SMA male to BNC female adapter



SMT INTER-CONNECT KITS

These new clips make testing "hands-free" even on densely mounted SMT circuit boards.

Grabber Clip Kits	SMG50	SMGK51	SMGK52*
SMT Grabber Clips	20	4	5
Electrical Leads		3	3
Dual Lead Adapter			1
Flex Tip Adapter			1

\*Subminiature and compact probe tips require miniature tip adapter 013-0202-02.

SOIC and PLCC Kits (Twin Packs Include: Two SOIC Clips of the same pin count; 2 SMT Grabbers; 4 Electrical Leads)

SOIC Twin Packs	SMC8	SMC14	SMC16	SMC20	SMC24
Pin count	8	14	16	20	24

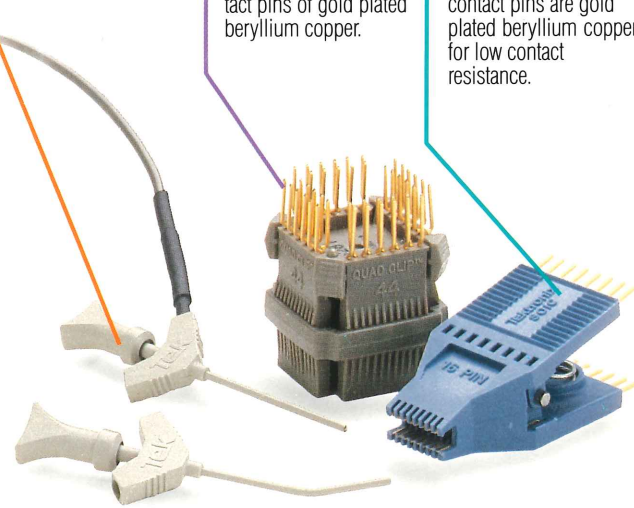
PLCC Twin Packs	SMQ20	SMQ28	SMQ44	SMQ52	SMQ68
Pin count	20	28	44	52	68

Engineer's Kits	SMCK1	SMQK1
SOIC Clips	1 each 5 styles	
PLCC Clips		1 each 5 styles
SMT Grabbers	4	4
Electrical Leads	8	8

SMT Grabber Clips are perfect for attaching logic and analog probes to a wide variety of electronic devices. Just push the plunger. Tiny jaws grasp the smallest component securely.

PLCC Quad Clips interface to Plastic Leaded Chip Carriers (PLCCs) with "J" leads. They attach quickly via a snap ring that opens and closes onto all four sides of the chip at once. Quad clips come with 0.025" upper contact pins of gold plated beryllium copper.

SOIC Clips simplify pin contact/connection with Small Outline Integrated Circuits (SOICs). The spring design jaws easily snap on and off. SOIC clips are compatible with gullwing or "J" leads on 0.050" centers. The 0.025" upper contact pins are gold plated beryllium copper for low contact resistance.



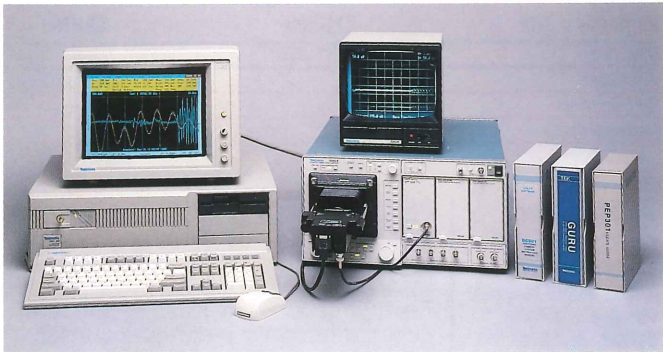
## SCOPE-MOBILE® CARTS

### K217S Rack Instrument Cart

(shown at right) Specifically designed to support both the 11000 Series Oscilloscopes, DSA 600 Series Digitizing Signal Analyzers and other rack width instruments. Linked top and center shelf tilt. Top shelf accommodates up to 100 lbs. Center shelf has 40 lb. capacity. Shelf at base holds 100 lbs. A four outlet power strip is standard.



## DIGITIZING CAPABILITY FOR 11302A



### Digitizing Camera System

Capture transient events up to 500 MHz with the Tek 11302A "BrightEye" transient enhancing oscilloscope and the DCS01 Digitizing Camera System. Digitize the waveforms from your scope and process them using your PC.

The DCS01 (Option 1A shown above) includes camera, scope adapter, software, cabling and a frame store board for your PC.

## DOCUMENTATION PRODUCTS

### High Performance Cameras for Analog Scopes

**High Speed Camera** (C-51 Option 11 for 11301(A), C-51 Option 12 for the 11302(A) not shown) for single-shot work using the 11300 Series Oscilloscopes. Reduces image size about 50%.

**General Purpose Camera** (C-53 Option 11 shown at right) with larger image size and medium speed. For 11302(A).

**Camera** (C-59A Option 11 not shown) designed for larger CRTs up to 6½" diagonal. Lowest priced of the high performance cameras. For the 11301(A).



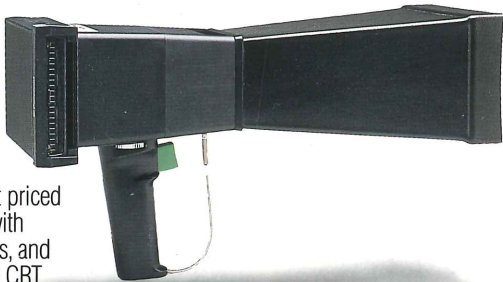
C-53 Option 11

### Low Cost Cameras for Analog Scopes

**AutoFilm™ Eject Camera** (C7 not shown) provides self-developing prints in seconds. Similar to the C-5C. For 11301(A).

### Hand-Held Camera

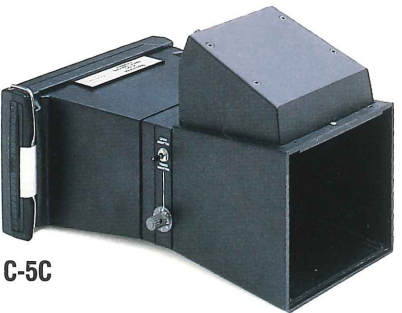
(C-4 Option 10 shown at right) adapts to CRTs of all sizes with one of six interchangeable hoods. Our lowest priced camera. For use with 11201, 11400 series, and 11800 series. (The CRT hood will cut off the edges of the display.)



C-4 Option 10

### General Purpose Camera

**Camera** (C-5C shown at right) Easy to use. Slips onto the scope bezel in seconds. For 11301(A).



C-5C