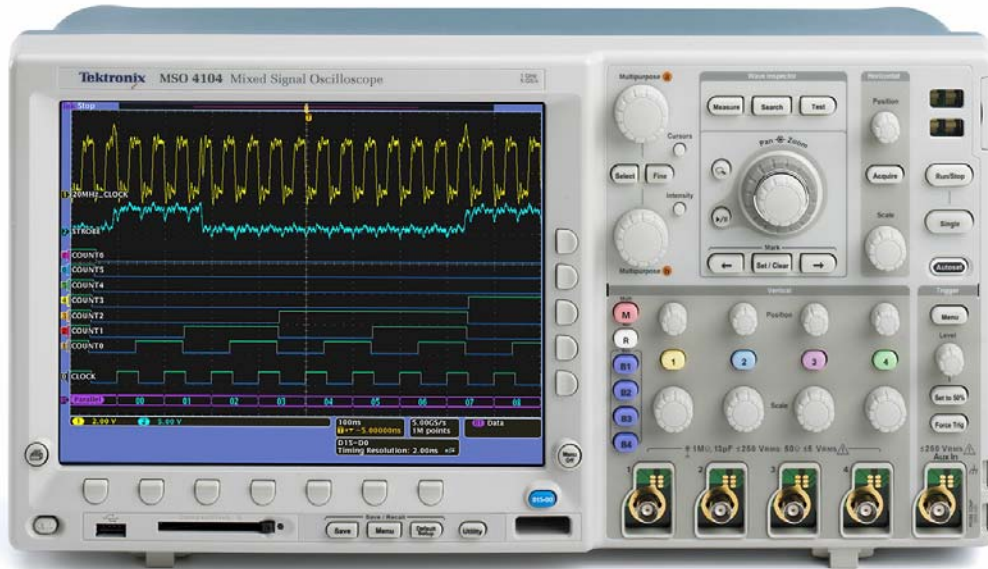


Tektronix MSO4000 Series Oscilloscopes

Feature-rich tools for debugging mixed signal designs



Free up valuable bench-top space -

Dimensions: 9.0 in. (229 mm) height x 17.3 in. (439 mm) width x 5.4 in (137 mm) depth; 11 lbs (5kg) weight.

Key Specifications

Bandwidth	350 MHz, 500 MHz, 1 GHz models
Channels	2 or 4 analog + 16 digital channel models
Record Length	10 M standard on all channels
Timing Resolution	60.6 ps (16.5 GS/s) on digital channels (MagniVu™)
Display	10.4 inches (264 mm); 1,024 x 768 resolution (XGA)
Mass Storage	Front panel USB and CompactFlash
Additional	<ul style="list-style-type: none"> ▪ I²C, SPI, CAN, LIN, FlexRay, RS-232/422/485/UART serial triggering and analysis options ▪ Parallel bus decoding and triggering ▪ Per-channel thresholds ▪ Multi-channel set-up and hold triggering

Designed to make your work easier



P6516 Mixed Signal Oscilloscope Probe

Familiar Operation

Drives like the tool you already know how to use.

Wave Inspector® Controls

For simple and efficient navigation of waveforms.

Large 10.4 in. XGA Screen

Helps you easily visualize data.

Next-generation Digital Waveform Display

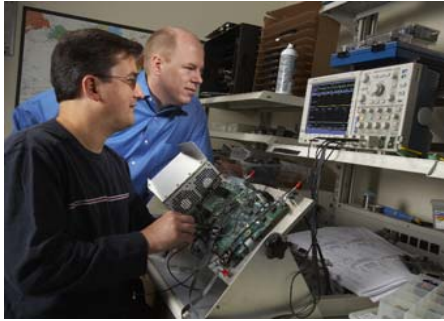
Color-coded ones and zeros, white edge multiple transition detection, and waveform grouping.

Innovative Digital Probe Design

Simplifies connecting to the device-under-test.

Time Correlated Analog and Digital Data

Monitor up to 4 analog and 16 digital channels at once.



Easy digital probing with the P6516 probe design.



Simply store, transfer and document your results on a PC.

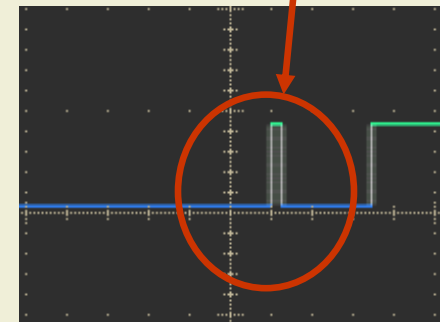
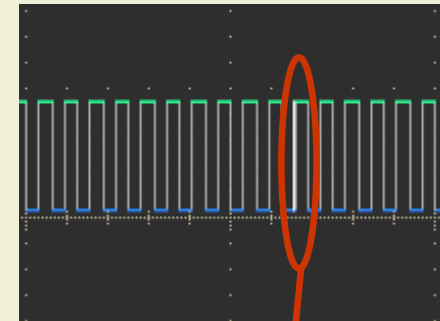


Zoom, pan, search, set user marks and more with Wave Inspector®



Next-Generation Waveform Display

Easy visualization and management of digital waveform data.



- **Green** indicates logic high
- **Blue** indicates logic low
- **White Edge** indicates more information is available by zooming in
- Innovative grouping technique makes it easy to manage digital channels

Ordering Information

Models	Analog Channels	Digital Channels	Bandwidth	Sample Rate All Analog / All Digital	Application Modules
MSO4104	4	16	1 GHz	5.0 / 16.5 GS/s	DPO4EMBD - Embedded Serial Triggering and Analysis Module (I ² C, SPI). DPO4COMP - Computer Serial Triggering and Analysis Module (RS-232/422/485/UART). DPO4AUTO - Automotive Serial Triggering and Analysis Module (CAN, LIN). DPO4AUTOMAX - Extended Automotive Serial Triggering and Analysis Module (CAN, LIN, FlexRay). DPO4VID - HDTV and Custom Video Triggering Module.
MSO4054	4	16	500 MHz	2.5 / 16.5 GS/s	
MSO4034	4	16	350 MHz	2.5 / 16.5 GS/s	
MSO4032	2	16	350 MHz	2.5 / 16.5 GS/s	

Standard Probes and Accessories
<ul style="list-style-type: none"> ▪ One P6139A 500 MHz, 10x Passive Probe per Channel. ▪ One P6516 16 Channel Logic Probe. ▪ One Logic Probe Accessory Kit (020-2662-xx). ▪ Front Cover (200-4908-00). ▪ CompactFlash Memory Card; 32MB (156-9413-00). ▪ User Manual (071-2121-xx). ▪ Documentation CD (063-3903-xx). ▪ OpenChoice® Desktop Software. ▪ NI LabVIEW SignalExpress™ Tektronix Edition LE Software. ▪ Calibration Certificate Documenting Traceability to National Metrology Institute(s) and ISO9001 Quality System Registration. ▪ Power Cord. ▪ Accessory Bag (016-1967-00). ▪ Three-year Warranty.

Recommended Probes and Accessories				
<table border="0"> <tr> <td style="vertical-align: middle;">Probes</td> <td> <ul style="list-style-type: none"> ▪ TAP1500 1.5 GHz TekVPI™ Active Probe. ▪ TCP0030 120 MHz TekVPI 30 Ampere AC/DC Current Probe. ▪ TCP0150 20 MHz TekVPI 150 Ampere AC/DC Current Probe. ▪ TDP0500 500 MHz TekVPI 42V Differential Probe. ▪ TDP1000 1 GHz TekVPI 42V Differential Probe. ▪ P5205[*] 1.3 kV, 100 MHz High-voltage Differential Probe. ▪ P5210[*] 5.6 kV, 50 MHz High-voltage Differential Probe. ▪ P5100 2.5 kV, 100X High-voltage Passive Probe. ▪ AD4400A[*] 100X, 10X, 1X, 0.1X High-gain Differential Amplifier. ▪ NEX-HD2HEADER Micror Connector on a Target to 0.1" Header Pins. </td> </tr> <tr> <td style="vertical-align: middle;">Accessories</td> <td> <ul style="list-style-type: none"> ▪ 071-1844-xx Service Manual (English only). ▪ FPGAView-xx FPGA Support for Altera and Xilinx. ▪ SIGEXPTE NI LabVIEW SignalExpress Tektronix Edition Software. ▪ TPA-BNC TekVPI to TekProbe BNC Adapter. ▪ TEK-USB-488 GPIB to USB Adapter. ▪ 119-6827-00 CompactFlash to USB Memory Card Reader. ▪ ACD4000 Soft Transit Case. ▪ HCTEK4321 Hard Transit Case (requires ACD4000). ▪ RM4000 Rackmount Kit. ▪ AMT75[*] 1 GHz, 75 Ω Adapter. </td> </tr> </table>	Probes	<ul style="list-style-type: none"> ▪ TAP1500 1.5 GHz TekVPI™ Active Probe. ▪ TCP0030 120 MHz TekVPI 30 Ampere AC/DC Current Probe. ▪ TCP0150 20 MHz TekVPI 150 Ampere AC/DC Current Probe. ▪ TDP0500 500 MHz TekVPI 42V Differential Probe. ▪ TDP1000 1 GHz TekVPI 42V Differential Probe. ▪ P5205[*] 1.3 kV, 100 MHz High-voltage Differential Probe. ▪ P5210[*] 5.6 kV, 50 MHz High-voltage Differential Probe. ▪ P5100 2.5 kV, 100X High-voltage Passive Probe. ▪ AD4400A[*] 100X, 10X, 1X, 0.1X High-gain Differential Amplifier. ▪ NEX-HD2HEADER Micror Connector on a Target to 0.1" Header Pins. 	Accessories	<ul style="list-style-type: none"> ▪ 071-1844-xx Service Manual (English only). ▪ FPGAView-xx FPGA Support for Altera and Xilinx. ▪ SIGEXPTE NI LabVIEW SignalExpress Tektronix Edition Software. ▪ TPA-BNC TekVPI to TekProbe BNC Adapter. ▪ TEK-USB-488 GPIB to USB Adapter. ▪ 119-6827-00 CompactFlash to USB Memory Card Reader. ▪ ACD4000 Soft Transit Case. ▪ HCTEK4321 Hard Transit Case (requires ACD4000). ▪ RM4000 Rackmount Kit. ▪ AMT75[*] 1 GHz, 75 Ω Adapter.
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Please specify power plug and manual version when ordering.

^{*} Requires TekVPI™ to TekProbe BNC adapter (TPA-BNC).

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