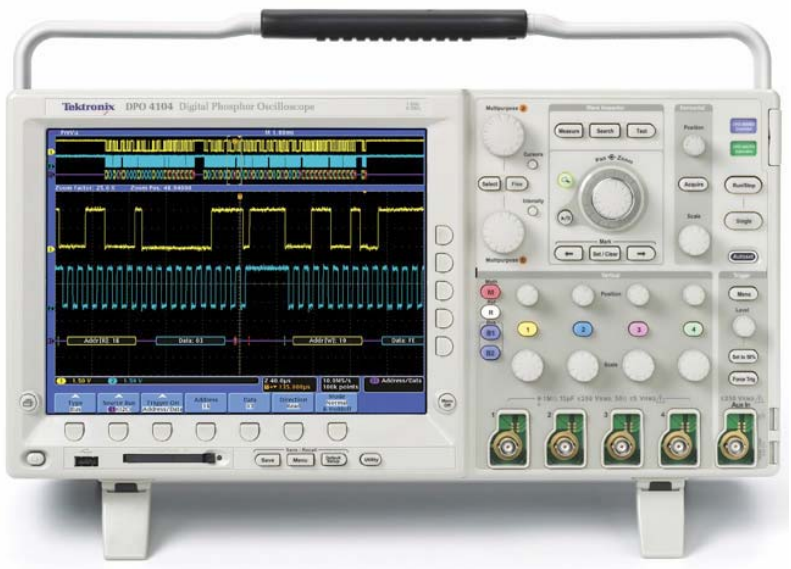
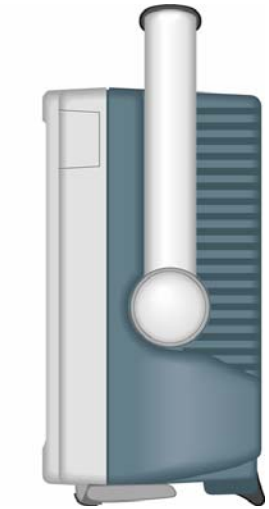
Tektronix DPO4000 Series Oscilloscopes

Feature-rich tools for debugging mixed signal designs

Product Fact Sheet





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	4 channel models
Record Length	10 M standard on all channels
Sample Rate	Up to 5 GS/s on all channels
Display	10.4 inches (264 mm); 1,024 x 768 resolution (XGA)
Mass Storage	Front panel USB and CompactFlash
Additional	▪ I²C, SPI, CAN, LIN, FlexRay, RS-232/422/485/UART serial triggering and analysis options ▪ Built in Ethernet port

Meet the Wave Inspector

Efficiently view, navigate and analyze waveform data



Zoom, pan, search, set user marks and more with dedicated front-panel Wave Inspector controls.

Zoom-Pan
Intuitive front-panel zoom and pan controls for simple waveform navigation.

User Marks
Easy “bookmarking” for quick navigation between marks.

Search
Quickly find and mark all occurrences of user specified events.

www.tektronix.com/dpo4000

Tektronix®
Enabling Innovation



Triggering on specific data packet going across an I²C bus.



CAN event table display of bus content for easy comparison with software listings.



Slim 5.4 in. form factor helps free up valuable bench-top space.

Ordering Information

Models	Analog Channels	Bandwidth	Sample Rate (ALL Channels)	Record Length
DPO4104	4	1 GHz	5.0 GS/s	10 M
DPO4054	4	500 MHz	2.5 GS/s	10 M
DPO4034	4	350 MHz	2.5 GS/s	10 M

Application Modules

DPO4EMBD - Embedded Serial Triggering and Analysis Module (I²C, 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.

Standard Probes and Accessories

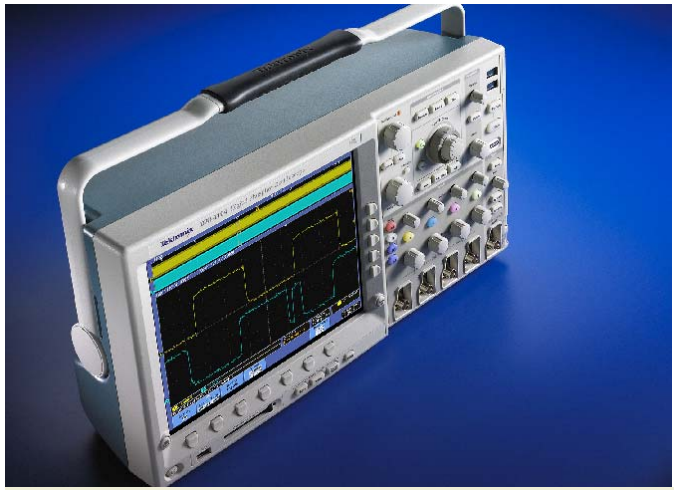
- One P6139A 500 MHz, 10x Passive Probe per Channel.
- Front Cover (200-4908-00).
- CompactFlash Memory Card; 32 MB (156-9413-00).
- User Manual (071-2121-xx).
- Documentation CD (063-3903-xx).
- OpenChoice Desktop Software.
- NI LabVIEW SignalExpress Tektronix Edition LE Software.
- Calibration Certificate Documenting Traceability to National Metrology Institute(s) and ISO9001 Quality System Registration.
- Power Cord.
- Accessory Bag (016-1967-00).
- Three-year Warranty.

Please specify power plug and manual version when ordering.

Recommended Probes and Accessories

Probes	**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]	1.3 kV, 100 MHz High-voltage Differential Probe.
	P5210[*1]	5.6 kV, 50 MHz High-voltage Differential Probe.
	P5100	2.5 kV, 100X High-voltage Passive Probe.
	ADA400A[*1]	100X, 10X, 1X, 0.1X High-gain Differential Amplifier.
Accessories	**071-1844-xx**	Service Manual (English only).
	SIGEXPTE	NI LabVIEW SignalExpress Tektronix Edition Software.
	TPA-BNC	TekVPI to TekProbe BNC Adapter.
	TEK-USB-488	GPIB to USB Adapter.
	ACD4000	Soft Transit Case.
	HCTEK4321	Hard Transit Case (requires ACD4000).
	RM4000	Rackmount Kit.
	AMT75[*1]	1 GHz, 75 Ω Adapter.

[*1] Requires TekVPI™ to TekProbe BNC adapter (TPA-BNC).



Impressive Performance

- Up to 1 GHz bandwidth.
- 4 channels.
- 10 M uncompromised record length across all channels comes as standard.
- ≥ 5x over sampling across all channels for accurate representation of your signal.
- Advanced video triggering.[*2]

Serial Debug for Common Standards

- Serial bus trigger and decode (I²C, SPI, CAN, LIN, FlexRay, RS-232/422/485/UART).[*2]

Exceptional Ease-of-Use

- Wave Inspector® controls allow you to easily search and navigate through long memory.
- Large 10.4 in. (264 mm) XGA screen.
- Front panel USB and CompactFlash mass storage for easy transfer of information.
- USB plug-and-play PC connectivity.

[*2] Optional

48W-19356-3

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