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TECHNOLOGY GROUP

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Tektronix 671-2469-02* at our website: *Click HERE*

Digital Real-Time™ Oscilloscopes

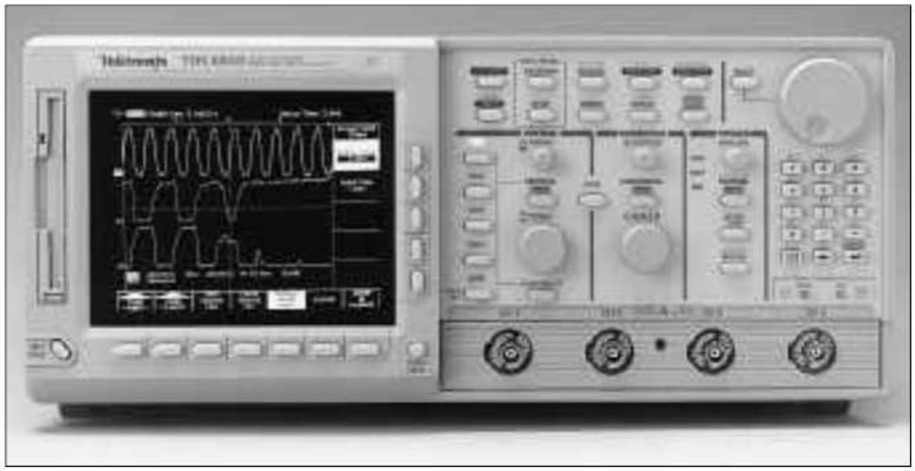
TDS 684B • TDS 680B • TDS 644B • TDS 620B • TDS 640A

Features

- 1 GHz and 500 MHz Bandwidth
- 5 GS/s and 2.5 GS/s Sample Rates
- 4 and 2 Input Channels
- 8-Bit Vertical Resolution
- Greater than 11-Bits with Averaging
- Record Length to 15,000 Points
- 1 mV/div to 10 V/div Sensitivity
- 1.5% Vertical Accuracy
- Waveform Math and Advanced Waveform DSP
- 1 ns Peak Detect (not available w/TDS 640A)
- Channel Deskew (not available w/TDS 640A)
- Fully Automated Measurement System
- Waveform Pass/Fail Template Testing
- Color VGA Display
- 3.5 in. DOS Format Floppy Drive
- RS-232, Centronics, GPIB and VGA I/O Ports

Applications

- Digital Design Characterization and Verification
- Telecommunications/Datacommunications
- Transient Event Capture
- High Energy Physics



TDS 684B

Your designs may be digital but at today's speeds, many of your toughest problems aren't. Crosstalk noise. Transmission effects. Ground bounce. Not to mention sub-nanosecond edges. Today's design problems require high bandwidth oscilloscopes that can measure up to these challenges. The Digital Real-Time™ architecture of the TDS 600 Series simplifies capturing intermittent signals or non-recurring problems like glitches or metastable states caused by setup and hold time violations.

TDS 600 Series provides design engineers excellent single shot accuracy for multi-channel, high speed signal characterization. Additional features and specifications of the TDS 600 Series are explained in the TDS Reference section of the Textronix Test and Measurement Catalog or on the World Wide Web at www.tek.com.

Total Channels	4	2 + 2	4	2 + 2	4
Sample Rate (all channels simultaneously)	2 GS/s	2.5 GS/s	2.5 GS/s	5 GS/s	5 GS/s
Real-time Bandwidth	500MHz	500MHz	500MHz	1 GHz	1 GHz
Maximum Record Length per Channel	2,000 pts	15,000 pts	15,000 pts	15,000 pts	15,000 pts
Vertical Resolution	8-Bits; >11-Bits with averaging				
Time Measurement Accuracy	<110 ps @ 2 GS/s	<100 ps @ 2.5 GS/s	<100 ps @ 2.5 GS/s	<50 ps @ 5 GS/s	<50 ps @ 5 GS/s
Advanced Waveform DSP/Math	Std.	Std.	Std.	Std.	Std.
Standard Probes	4 P6139A	2 P6139A	4 P6243	None	None
Display Type	7 in. mono	7 in. mono	7 in. color	7 in. mono	7 in. color
Disk Drive	Std.	Std.	Std.	Std.	Std.
GPIB Port	Std.	Std.	Std.	Std.	Std.
RS-232 & Centronics	Std.	Std.	Std.	Std.	Std.
VGA I/O Port Printer Ports	Std. Mono	Std. Mono	Std. Color	Std. Mono	Std. Color

See Tektronix on the World Wide Web: http://www.tek.com

CE

ISO 9001 *Tektronix measurement products are manufactured in ISO registered facilities.*

Product(s) complies with IEEE Standard 488.2-1987, and with Tektronix Standard Codes and Formats.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Digital Real-Time™ Oscilloscopes

TDS 684B • TDS 680B • TDS 644B • TDS 620B • TDS 640A

Main and Delayed.

200 ps/div to 10 s/div. Except TDS 640A: 500 ps/div to 5 s/div.

Over Any Interval >1 ms ±100 ppm.

500 to 15,000 pts. Except TDS 640A: 500 to 2,000 pts.

8-Bits (>11-Bits with averaging).

300 V CAT II ±400 V peak. Derate at 20 dB/decade above 1 MHz.

1.50%

20 MHz, 250 MHz, and Full.

1 MΩ in parallel with 10 pF, or 50 Ω (AC and DC coupling).

AC, DC or GND.

Peak Detect (TDS 620B, TDS 644B: 1 ns; TDS 680B, TDS 684B: <1 ns), Sample, Single Sequence, Envelope, Average.

Edge (main and delayed); Pulse (Width, Glitch, Runt, Slew Rate*1, Time Out*1); Logic (Pattern, State, and Setup & Hold Time Violation*1); HDTV Video (optional).

25 (on entire record or gated region).

Interpolation (sin(x)/x or linear), Average, Envelope, Auto Setup.

TDS 680B/684B: <50 ps typical @ 5 GS/s single shot; TDS 620B/644B: <100 ps typical @ 2.5 GS/s single shot.TDS 640A: <110 ps @ 2 GS/s single shot.

FFT, Integration, Differentiation, Waveform (math or acquired) Limit Testing.

Instrument Cart.

1 GHz Active Probe.

500 MHz, 20X SMD Probe.

Surface Mount Device Interconnects.

1.5 GHz, FET Probe.

Software (WSTR31).

*1 Not available in TDS 640A.

Four-channel Color 1 GHz, 5 GS/s Per Channel Digital Real-Time Oscilloscope.

Two-channel Monochrome 1 GHz, 5 GS/s Per Channel Digital Real-Time Oscilloscope.

Four-channel Color 500MHz, 2.5 GS/s Per Channel Digital Real-Time Oscilloscope.
Four P6243 FET Probes.

Four-channel Monochrome 500MHz, 2.0 GS/s Per Channel Digital Real-Time Oscilloscope.
Four P6139A Passive Probes.

Two-channel Monochrome 500MHz, 2.5 GS/s Per Channel Digital Real-Time Oscilloscope.
Two P6139A Passive Probes.

User Manual (070-9869-00);
Quick Reference Guide (070-9382-00);
Programmer's Manual in MS-Help format on floppy disk (063-2773-00);
Technical Reference Manual (070-9874-02);
Front Cover (200-3696-00);
North American Power Cord (161-0230-01);
Accessory Pouch (TDS 644B/TDS 684B Only: 016-1268-00).

Video Trigger, NTSC, PAL, HDTV, FlexFormat™.

Model K420 Instrument Cart.

Rackmount Kit.

(TDS 620B only) Delete Standard two P6139A Probes.

Add four P6139A 10X Passive Probes.

(TDS 684B only) Add four P6245 1.5 GHz, 1pF FET Probes.

(TDS 680B only) Add two P6245 1.5 GHz, 1 pF FET Probes.

(TDS 644B only) Delete Standard four P6243 FET Probes.

Calibration Data Report.

available.

Three years of Calibration Services.

Five years of Calibration Services.

Test Data (requires Opt. C3).

Test Data (requires Opt. C5).

Repair warranty extended to cover five years.

http://www.tek.com; (65) 356-3900; 61 (2) 888-7066; +43 2236 8092 0; +32 (2) 715.89.70;
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(852) 2585-6688; (91) 80-2275577; +39 (2) 25086 501; 81 (3) 3448-3111; 52 (5) 666-6333;
+31 23 56 95555; +47 22 07 07 00; 86 (10) 6235 1230; 82 (2) 528-5299; (27 11)651-5222; +34 (1) 372 6000;
+46 (8) 629 6503; +41 (41) 729 36 40; 886 (2) 722-9622; +44(0)1628 403400; 1 (800) 426-2200.

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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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