

Digitizing Oscilloscopes

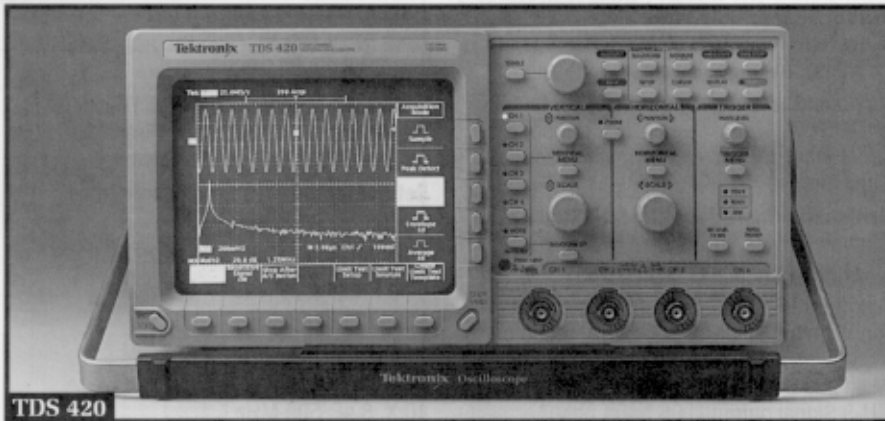
TDS 410/TDS 420/ TDS 460

- 150 and 350 MHz Bandwidths
- 100 MS/s Sampling Rate on 4 Channels
- 15 K Records Standard, 60 K Optional
- 1.5% Accuracy 1 mV/div – 10 V/div
- Proprietary Hi-Res Mode for up to 12-bits of Single Shot Vertical Resolution
- Extended Waveform Math/FFT (Option)
- 10 ns Peak Detect Mode for Glitch Capture
- 25 Automatic Measurements
- Pass/Fail (Template) Waveform Testing
- Roll and Triggered Roll Modes
- RS-232 and Centronics Type Interfaces
- Tek Secure[®]

DIFFERENTIAL MEASUREMENTS

- ADA400A Analog Differential Amplifier (10 μ V/div sensitivity)
- P5200 High Voltage Differential Probe (up to 1300 V) for floating measurements

(Please see pages 501 and 502 for details on ADA400A and P5200)



TDS 420

The 4 channel TDS 420.

TDS 400 Digitizing Oscilloscopes

For demanding precision measurement applications requiring high accuracy and acquisitions confidence, the simple to use portable TDS 400 family offers a choice of two channel and four channel models ranging from 150 to 350 MHz. 100 MS/s on all channels coupled with a choice of FFT Math, Video, Long Record Length options makes analysis work extremely simple.

Characteristics

SIGNAL ACQUISITION SYSTEM

Bandwidth – 150 MHz (TDS 410, TDS 420), 350 MHz (TDS 460).

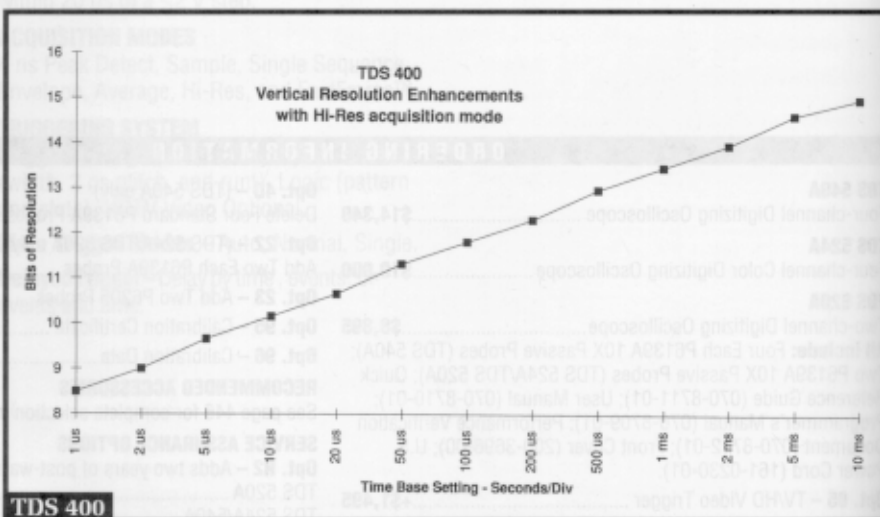
Channels – 4 (2 on TDS 410).

Digitizers – 4 (2 on TDS 410).

Sample Rate – 100 MS/s on all channels.

Sensitivity – 1 mV to 10 V/div (with calibrated fine adjust).

Position Range – ± 5 Divisions.



TDS 400

Theoretically achievable resolution with TDS 400 Hi-Res Mode.

APPLICATIONS

- Biophysical Research
- Biomedical Research
- Electrophysical and Electromechanical System Design
- Audio System Measurement and Analysis
- Manufacturing Test and Quality Control
- Power Supply and Power-related Design
- Product Service and Maintenance

Digitizing Oscilloscopes

2430A/2440 Replacements

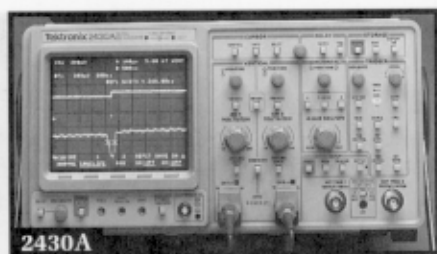
| | |
|----------|-------|
| TDS 420 | 2430A |
| TDS 520A | 2440 |

Note to our Valued 2430A and 2440 DSO customers:

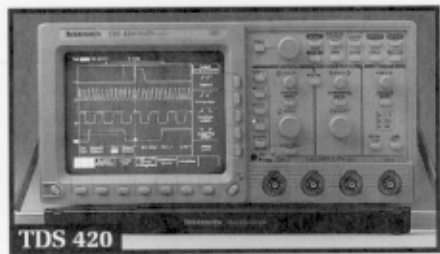
The 2430A and 2400 DSOs have served their markets very well, and have been replaced by the new generation of TDS series. The TDS Digitizing oscilloscopes offer numerous performance advantages over the 2400 series in terms of *Accuracy, Acquisition Flexibility, Input/Output Capability, Easy to use Graphical User Interface, and Lower Price!*

The following summary tables highlight the key performance differences between the TDS family and 2400 series DSOs. We at Tektronix are proud to continuously deliver superior value to our customers.

Please contact us for any assistance you require in making your Digitizing Oscilloscope selection. In U.S., call toll free: 1-800-835-9433, Ext. 2400 or contact your nearest Tektronix representative. Please refer to the pages in the back of the catalog for Tektronix contacts in your region.

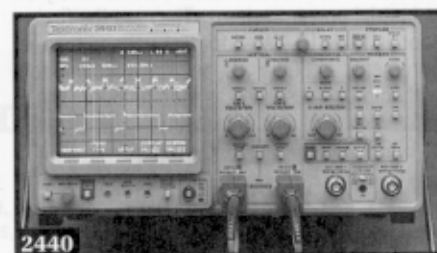


2430A

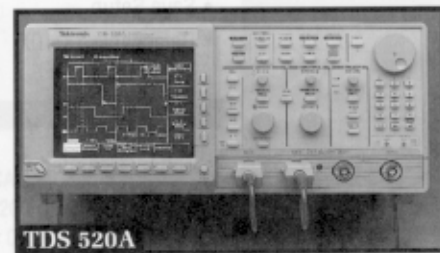


TDS 420

| | 2430A | → | TDS 420 |
|-------------------|------------------------|---|--|
| Bandwidth | 150 MHz | | 150 MHz |
| Sample Rate | 100 MS/sec | | 100 MS/sec |
| Channels | 2 Channels | | 4 Channels |
| Vertical Accuracy | 2% Vertical Accuracy | | 1.5% Vertical Accuracy |
| Single Shot BW | 40 MHz | | 40 MHz |
| Auto Measure | 21 Auto Measurements | | 25 Auto Measurements |
| Auto Setup | Yes | | Yes |
| Record Length | 1K | | 15K (60K Optional) |
| Update Rate | 30 Hz | | 150 Waveforms/sec |
| I/O Transfer | GPIB only | | GPIB, RS-232, Centronics |
| Roll Mode | Yes | | Yes + Triggered Roll |
| Horizontal Range | 5 ns-5 seconds | | 1 ns-20 seconds |
| Display Size | 5 in. CRT Size | | 7 in. CRT Size |
| User Interface | Normal | | Graphical User Interface |
| Advanced Math | None | | FFT, Differentiate, Integrate (Optional) |
| Printer Pack | None | | Optional |
| Price | Supply Depleted | | \$6,295 |



2440



TDS 520A

| | 2440 | → | TDS 520A |
|-------------------|------------------------|---|--|
| Bandwidth | 300 MHz | | 500 MHz |
| Sample Rate | 500 MS/sec | | 500 MS/sec |
| Channels | 2 Channels | | 2 + 2 Channels |
| Vertical Accuracy | 1.5% Vertical Accuracy | | 1% Vertical Accuracy |
| Single Shot BW | 200 MHz | | 200 MHz |
| Auto Measure | 21 Auto Measurements | | 25 Auto Measurements |
| Auto Setup | Yes | | Yes |
| Record Length | 1K Memory | | 15K (50K Optional) |
| Update Rate | 30 Hz | | 200 Hz |
| I/O Transfer | GPIB only | | GPIB, RS-232, Centronics |
| Roll Mode | Yes | | No |
| Horizontal Range | 5 ns-5 seconds | | 1 ns-20 seconds |
| Display Size | 5 in. CRT Size | | 7 in. CRT Size |
| User Interface | Normal | | Graphical User Interface |
| Advanced Math | None | | FFT, Differentiate, Integrate (Optional) |
| Price | Supply Depleted | | \$8,895 |