

Acquisition Mode

1 Press **SHIFT**, then press **ACQUIRE MENU**

2 Press **MODE** in main menu

3 From the side menu, select an acquisition mode that will serve your application

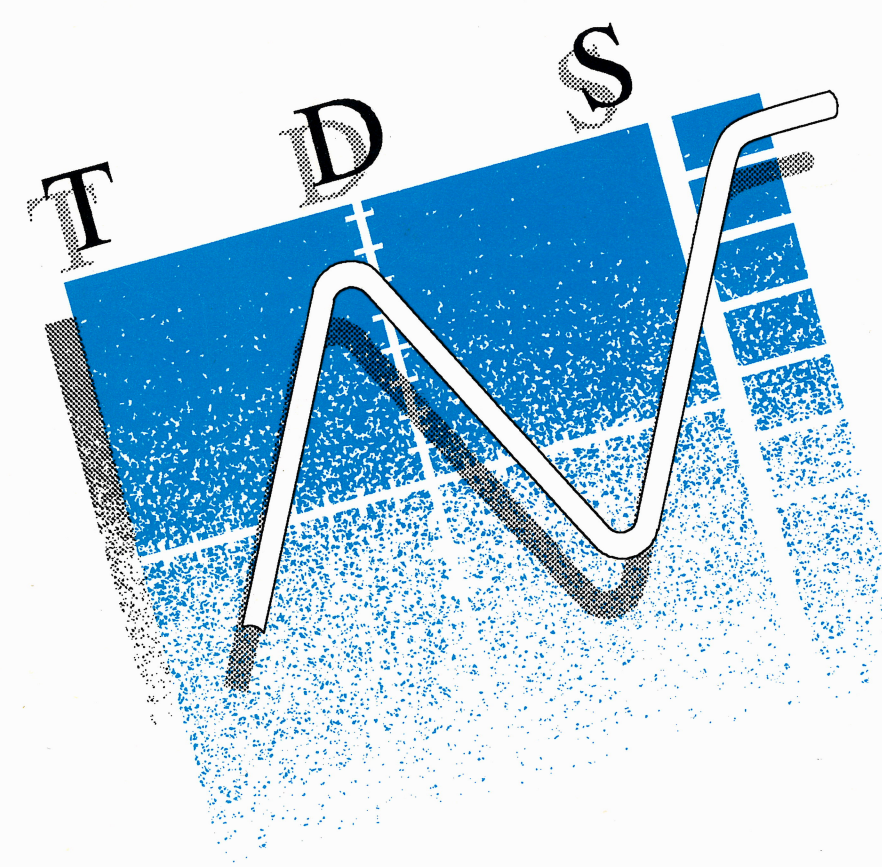
	Samples Acquired in Four Acquisition Intervals	Acquisition Mode	Displayed Record Points	Waveform Drawn on CRT
Single Waveform Acquisition	Interval 1 2 3 4	Sample	Uses first sample in interval	Uses first sample in interval
		Peak Detect	Uses highest and lowest samples in two intervals	Use to reveal aliasing and for glitch detection. Provides the benefits of enveloping with the speed of a single acquisition.
		Hi Res	Calculates average of all samples in interval	Use to reduce apparent noise. Provides the benefits of averaging with the speed of a single acquisition.

	Three Acquisitions from One Source	Acquisition Mode	Waveform Drawn on CRT
Multiple Waveform Acquisitions	Acquisition 1 2 3	Envelope	Finds highest and lowest record points over many acquisitions
		Average	Calculates average value for each record point over many acquisitions

TEK TDS 400 SERIES

Part No. 070-8035-00
Product Group 3G

THE TDS 420 & TDS 460 DIGITIZING OSCILLOSCOPES

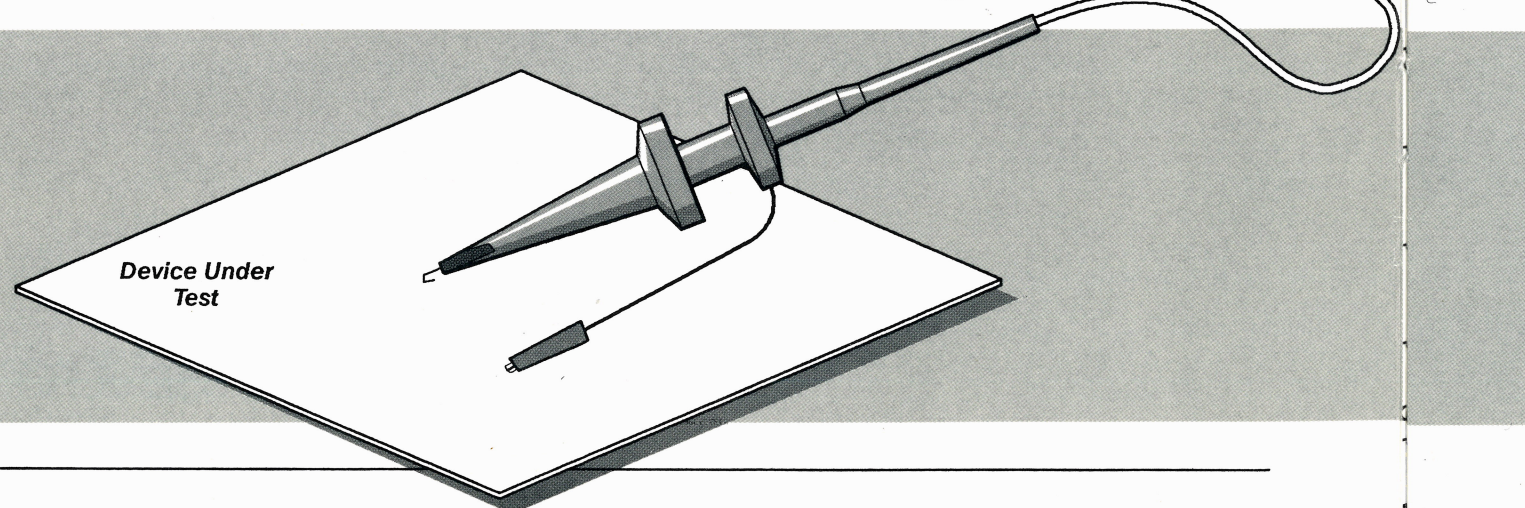
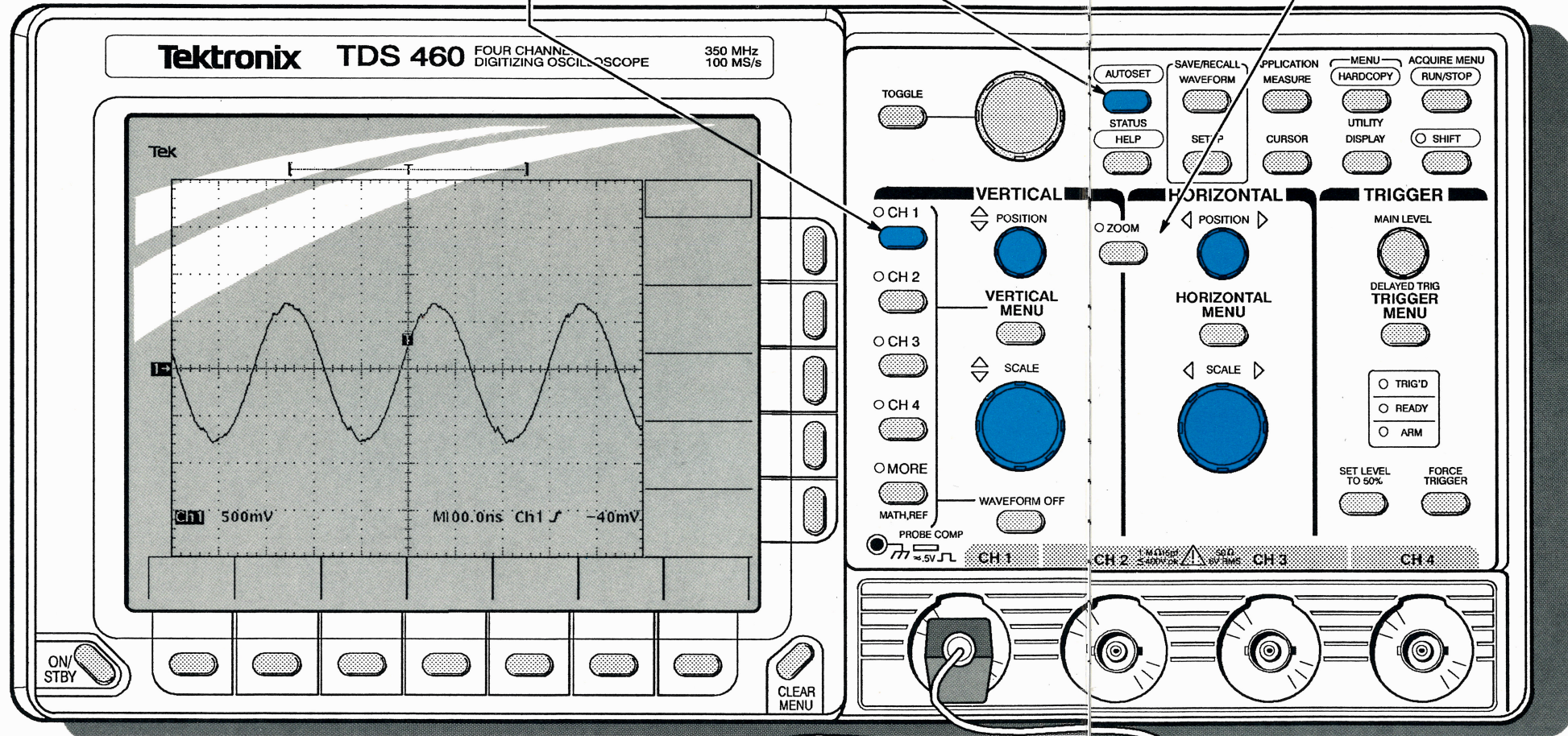


Quick Reference

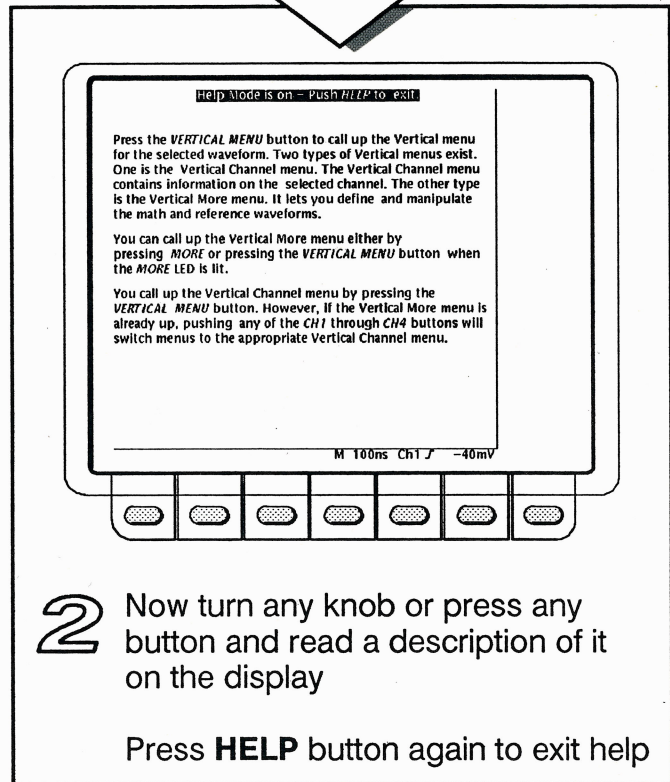
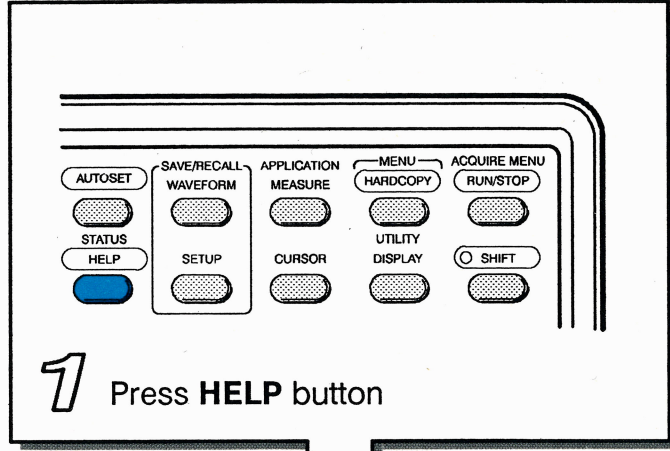
Tektronix
COMMITTED TO EXCELLENCE

Displaying a Waveform

- 1 Attach a probe to CH 1 and hook it up to your signal
- 2 Press CH 1 button
- 3 Press AUTOSET
- 4 Adjust VERTICAL and HORIZONTAL POSITION and SCALE as desired



On-Line Help



Operating a Menu

Use **SHIFT** Button for Alternate (Blue) Menus

- 1 Press any of the front panel menu buttons
- 2 Select an item from the main (bottom) menu
- 3 Select an item from the side menu, if displayed
- 4 Adjust menu item values with general purpose knob

Selecting a Trigger

- 1 Press **TRIGGER MENU** button
- 2 Select trigger type or parameter from main menu
- 3 Set **TRIGGER LEVEL** (Edge trigger only)

TYPE <Edge>		TYPE <Video>	
Coupling	Slope	Video Class	Sync Polarity
DC DC	Positive	NTSC	Positive
AC AC	Negative	PAL	Negative
HF Reject		Custom	
LF Reject			
Noise Rej (DC Low Sensitivity)			

Tektronix TDS 460 FOUR CHANNEL DIGITIZING OSCILLOSCOPE

350 MHz 100 MS/s

Tek Stopped: 1224 Acquisitions Trigger Level: -5mV

Level Level -5mV

Set to TTL

Set to ECL

Set to 50%

Ch1 50.0mV M 100ns Ch1 -5mV

TYPE <Edge> Source Ch1 Coupling DC Slope J Level -5mV Mode & Holdoff

ON/STBY CLEAR MENU

Press to Display Pop-Ups
Press Again to Make Selection

A Pop-Up Selection Changes the Other Main Menu Items

Removes Menus From Screen

Cursor Measurements

1 Press **CURSOR** button

2 Press **FUNCTION** in main menu

3 Select from side menu
Measures Voltage
Measures Time

4 Move cursor with general purpose knob
Press **TOGGLE** to switch between cursors

△ Difference between cursors in volts (H Bars) or time (V Bars)
@ Position of active cursor relative to ground (H Bars) or trigger (V Bars)

Active Cursor

Automated Measurements

1 Press **MEASURE** button

2 Press **Select Measrmt** in main menu

3 Select up to 4 measurements

4 Press **CLEAR MENU** button to move measurement readouts away from graticule

Automated Measurement Selections					
Period	Rise Time	Delay	High	Pk-Pk	RMS
Frequency	Fall Time	Burst Width	Low	Amplitude	Cycle RMS
Positive Width	Positive Duty Cycle	Positive Overshoot	Max	Mean	- more - 6 of 6
Negative Width	Negative Duty Cycle	Negative Overshoot	Min	Cycle Mean	To 1 of 6
- more - 1 of 6	- more - 2 of 6	- more - 3 of 6	- more - 4 of 6	- more - 5 of 6	

Quicker Adjustments

Press **SHIFT** button to change rate of **VERTICAL** and **HORIZONTAL POSITION** knobs, and general purpose knob