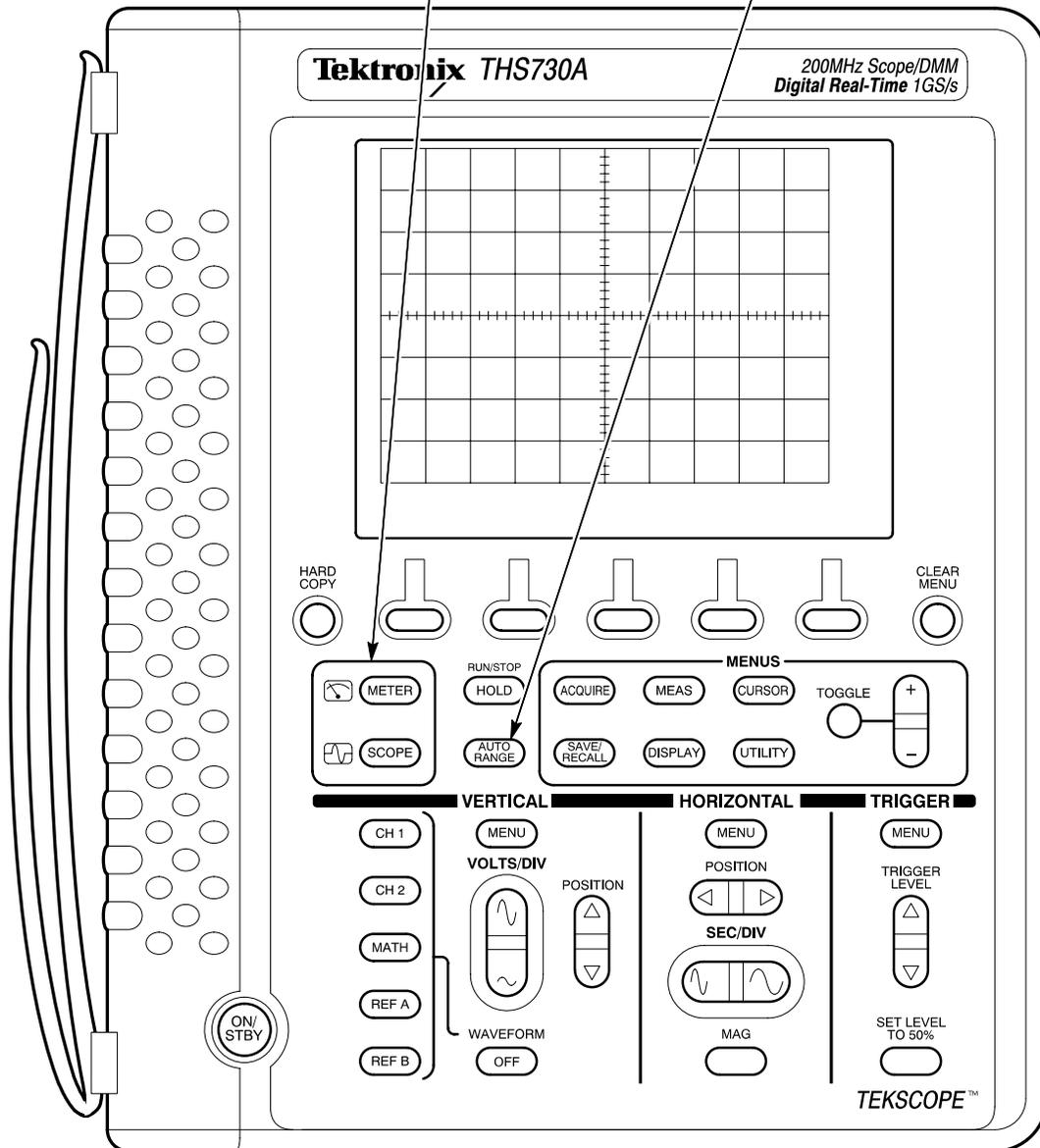


**THS710A, THS720A,  
THS730A & THS720P  
TekScope™  
Reference**

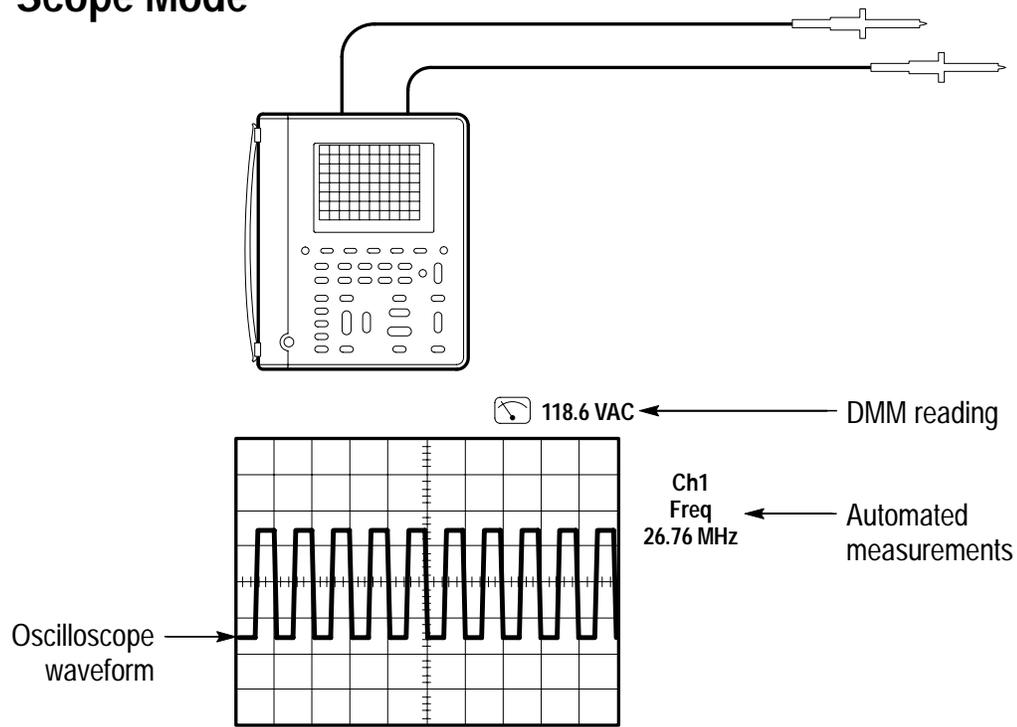
**070-9741-01**

# Getting Started

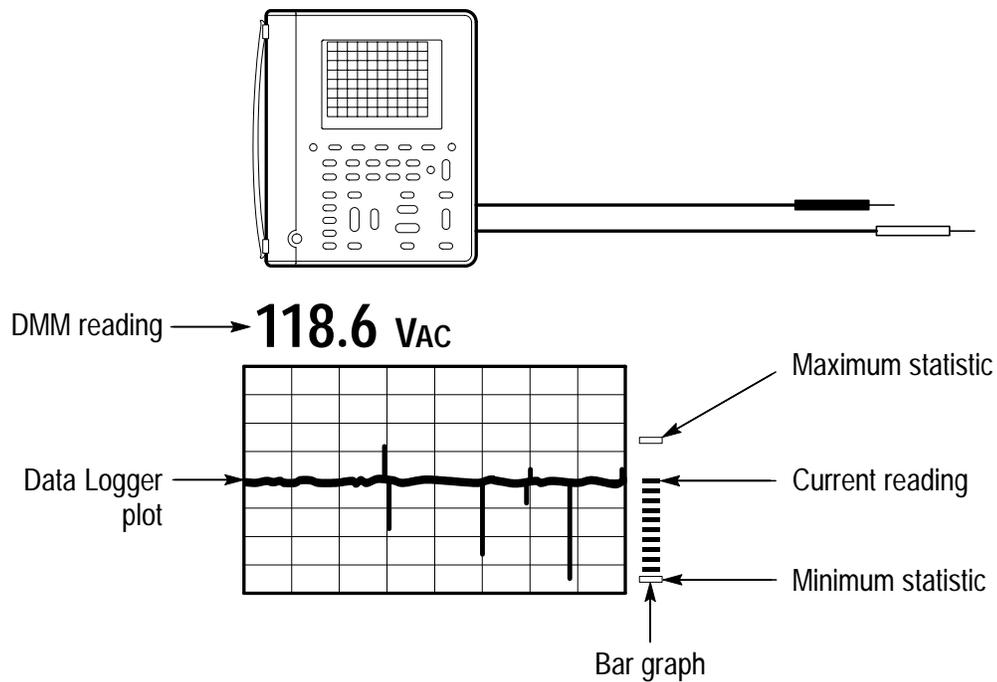
- 1 Connect probes or leads.
- 2 Choose **SCOPE** or **METER** mode.
- 3 Press **AUTORANGE**.



 **Scope Mode**

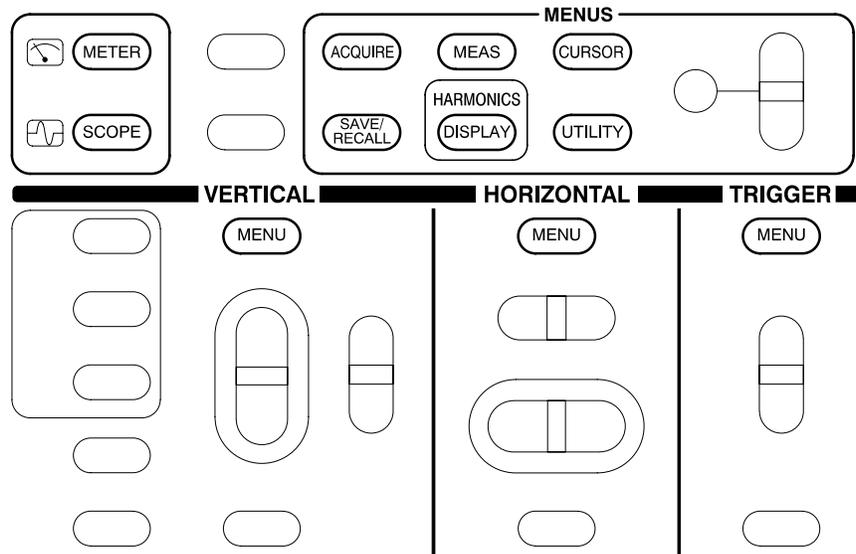


 **Meter Mode**

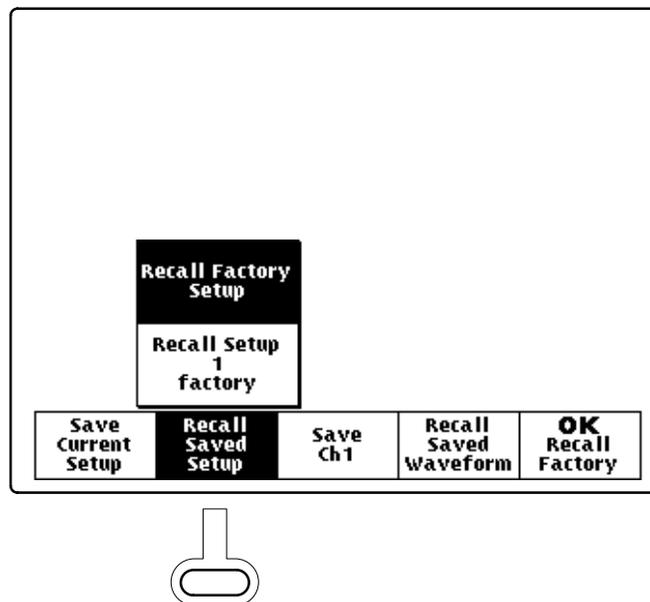


# Menu System

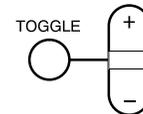
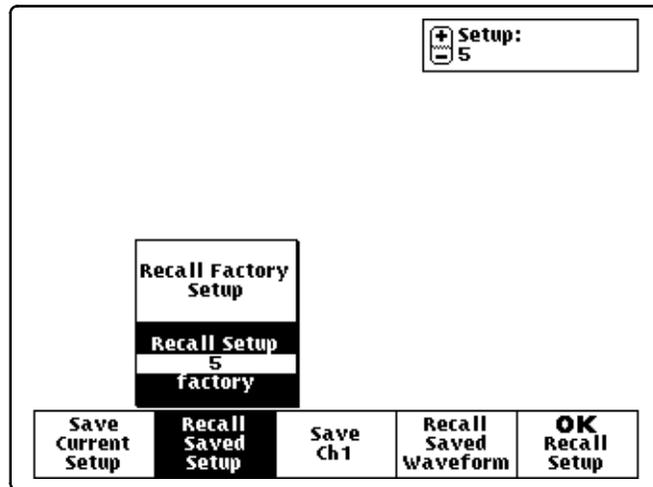
1 Press a front-panel button to display a menu.



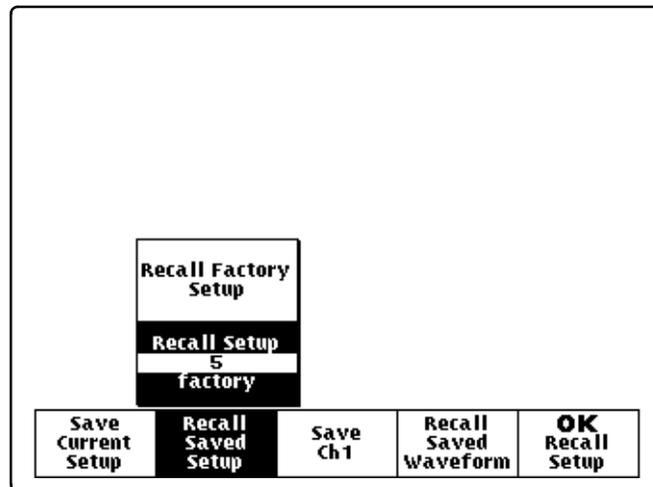
2 Press a bezel button to choose a menu item. If a pop-up menu appears, continue to press the bezel button to choose an item in the pop-up menu.



- 3 Certain menu choices require you to set a numerical value to complete the setup. Use the +/- rocker to adjust the value.



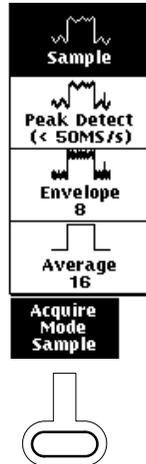
- 4 If the OK bezel button is displayed, press it to confirm your choice.



## Acquisition Mode

- 1 Press **ACQUIRE**.
- 2 Choose an acquisition mode.
- 3 To remove menus, press **CLEAR MENU**.

ACQUIRE

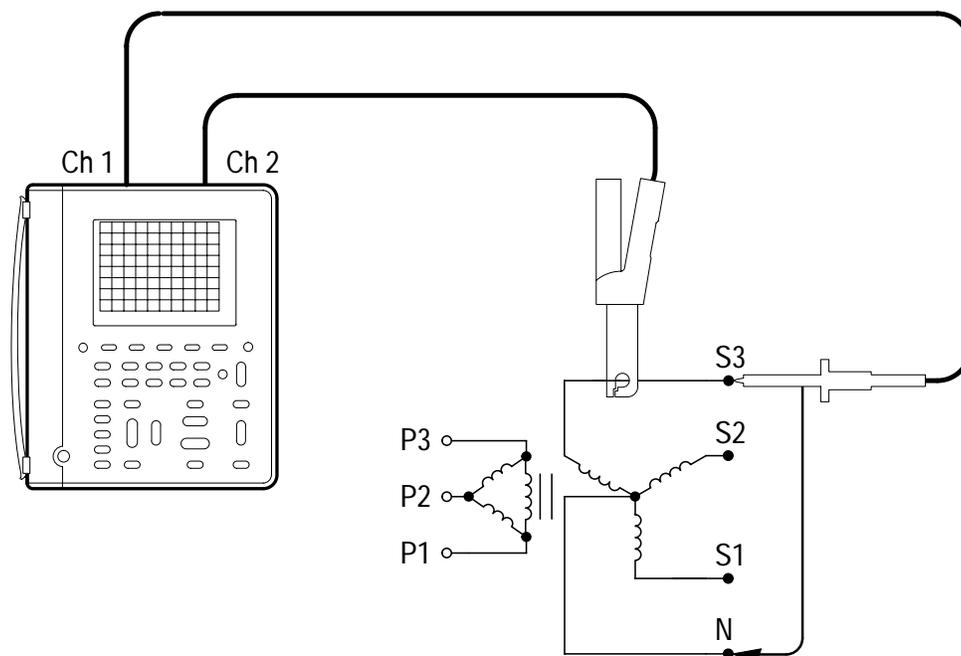


CLEAR MENU

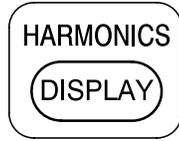


## Harmonics (THS720P)

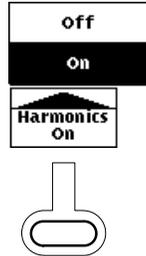
- 1 Connect the probes or leads.



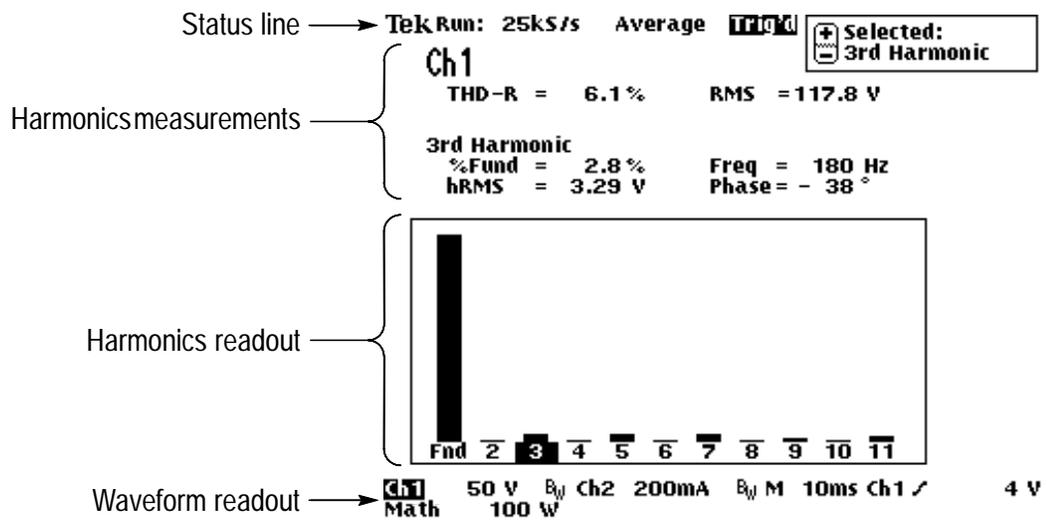
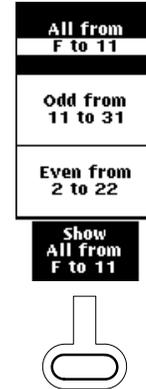
2 Press **DISPLAY** (**HARMONICS**).



3 Choose **On**.



4 Choose a set of harmonics.



5 To choose other measurements, press one of the following buttons.

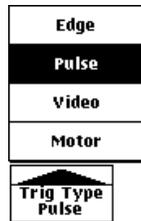
<p>TOGGLE </p> <p>Select next harmonic</p>	<p><b>VOLTS</b> <b>CH 1</b></p> <p>Voltage harmonics</p>	<p><b>AMPS</b> <b>CH 2</b></p> <p>Current harmonics</p>	<p><b>WATTS</b> <b>MATH</b></p> <p>Power measurements</p>
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# Trigger Type

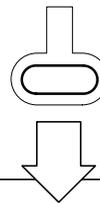
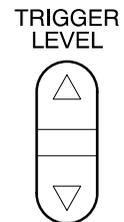
**1** Press **TRIGGER MENU**.



**2** Choose a trigger type.



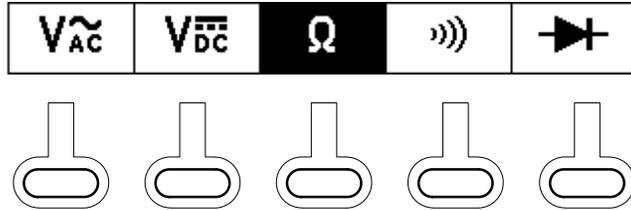
**3** Adjust the **TRIGGER LEVEL**.



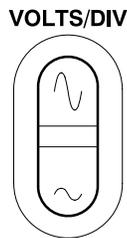
Edge or Motor		Pulse		Video	
<b>Source</b>	Choose Ch 1 or Ch 2 or External (Edge)	<b>Source</b>	Choose Ch 1 or Ch 2	<b>Source</b>	Choose Ch 1 or Ch 2
<b>Coupling (Ch 1 or Ch 2)</b>	DC  DC HF Reject  LF Reject  Noise Rej (DC Low Sensitivity)	<b>Polarity &amp; width</b>	Positive <sup>1</sup>  Negative <sup>1</sup>  <sup>1</sup> Set pulse width with +/- rocker	<b>Trigger on</b>	Odd Field <sup>3</sup> (Interlaced) Even Field <sup>3</sup> (Interlaced) Any Field <sup>3</sup> (Non-interlaced) Lines <sup>3</sup> Choose line with +/- rocker
<b>Slope</b>	Positive  Negative 	<b>Trigger when</b>	Less Than Width  Greater Than Width  Equal To Width <sup>2</sup>  Not Equal To Width <sup>2</sup>  <sup>2</sup> Set tolerance	<b>Video Class</b>	NTSC PAL SECAM Custom Scan Rate <sup>4</sup> <sup>4</sup> Set scan rate with +/- rocker

# DMM and Data Logger

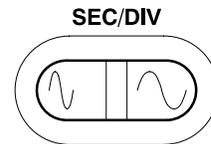
1 Choose a DMM function.



2 Press **AUTORANGE** or set a specific range.

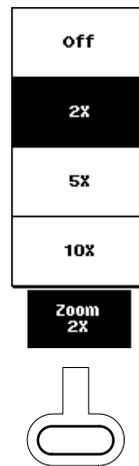


3 Set the Data Logger rate.



4 To select a Data Logger zoom factor, press **VERTICAL MENU** and then choose a zoom factor.

■ **VERTICAL** ■

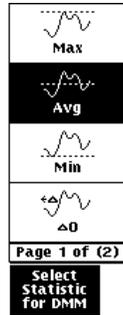


# Automated Measurements

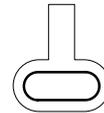
**1** Press **MEAS**.



**2** Choose from the pop-up menu.



**3** Press **OK**.



## Meter Statistic Choices

Max	Min	Average	Max-Min	Rel Δ	
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## Scope Measurement Choices

Period	Rise Time	Positive Overshoot	High	Mean	Burst Width
Frequency	Fall Time	Negative Overshoot	Low	Cycle Mean	
Positive Width	Positive Duty Cycle	Pk-Pk	Max	RMS	
Negative Width	Negative Duty Cycle	Amplitude	Min	Cycle RMS	

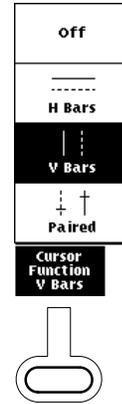


# Cursors

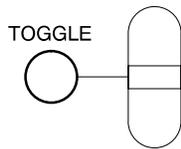
1 Press **CURSOR**.



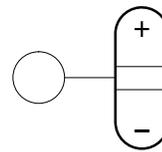
2 Choose a cursor function.



3 Use **TOGGLE** to choose the active cursor.

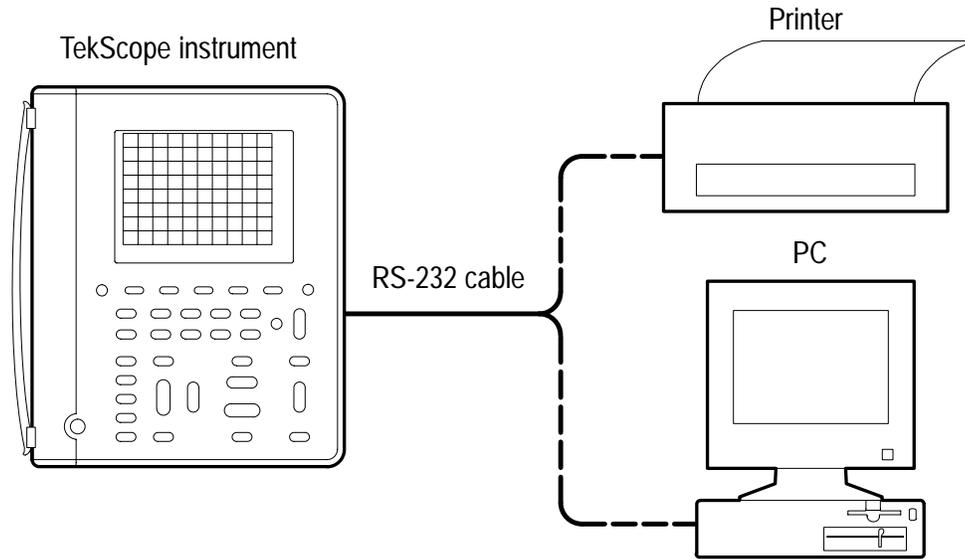


4 Use the +/- rocker to adjust the cursor position.



  **Hard Copy**

- 1 Connect the TekScope instrument to a printer or PC using an RS-232 cable. Check the table below for any additional adapters required.

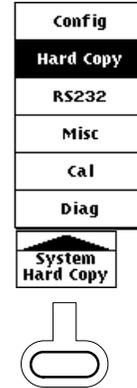


	RJ-45 to 9-pin female null modem adapter (standard)	RJ-45 to 25-pin male adapter	9-pin male to 25-pin male adapter	25-pin female to female gender adapter
HC 411 or DPU 411-II printer			●	
Most other serial printers	●		●	
Sun workstations	●		●	
PC/AT or laptop with 9-pin male connector	●			
Old-style PC with 25-pin male connector	●		●	●

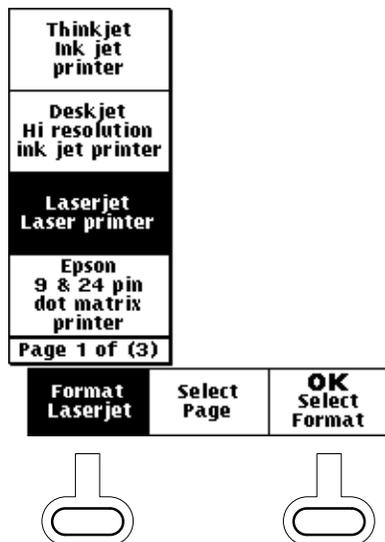
2 Press **UTILITY**.



3 Choose **Hard Copy** from the System pop-up menu.



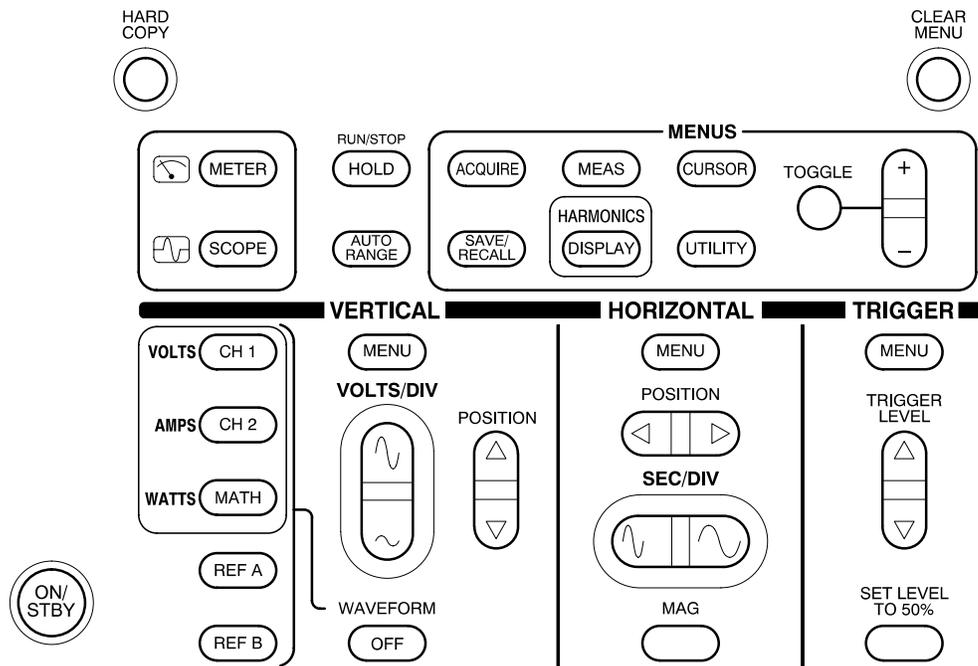
4 Choose a printer format. Press **OK**.



5 When ready to print, press **HARD COPY**.



# Front-Panel Buttons



**ACQUIRE.** Displays the Acquire menu.

**AUTORANGE.** Selects oscilloscope or meter Autorange function.

**CH 1 and CH 2.** Displays and selects a channel waveform.

**CLEAR MENU.** Clears menu from display.

**CURSOR.** Displays the Cursor menu.

**DISPLAY.** Displays the Display menu and activates Harmonics (THS720P).

**HARD COPY.** Initiates a hard copy using the RS-232 port.

**HOLD.** Stops/restarts oscilloscope acquisition or holds/resets meter readout.

**HORIZONTAL MENU.** Displays the Horizontal menu.

**HORIZONTAL POSITION.** Adjusts oscilloscope waveform horizontal position.

**MAG.** Turns 10X horizontal magnification on and off.

**MATH.** Displays and selects the math waveform.

**MEAS.** Displays the Measurement menu.

**METER.** Selects meter mode.

**ON/STBY.** Selects on or standby. Does not disconnect power from the instrument.

**REF A and REF B.** Displays and selects a reference waveform.

**SAVE/RECALL.** Displays the Save/Recall menu.

**SCOPE.** Selects scope mode.

**SEC/DIV.** Adjusts horizontal scale factor for oscilloscope or data logger.

**SET LEVEL TO 50%.** Sets trigger level to midpoint of oscilloscope waveform.

**TOGGLE and +/-** Rocker. Select and move cursors. Adjust numerical values.

**TRIGGER LEVEL.** Adjusts trigger level.

**TRIGGER MENU.** Displays the Trigger menu.

**UTILITY.** Displays the Utility menu.

**VERTICAL MENU.** Displays the Vertical menu.

**VERTICAL POSITION.** Adjusts oscilloscope waveform or data logger vertical position.

**VOLTS/DIV.** Adjusts oscilloscope vertical scale factor or meter range.

**WAVEFORM OFF.** Removes selected oscilloscope waveform from display.