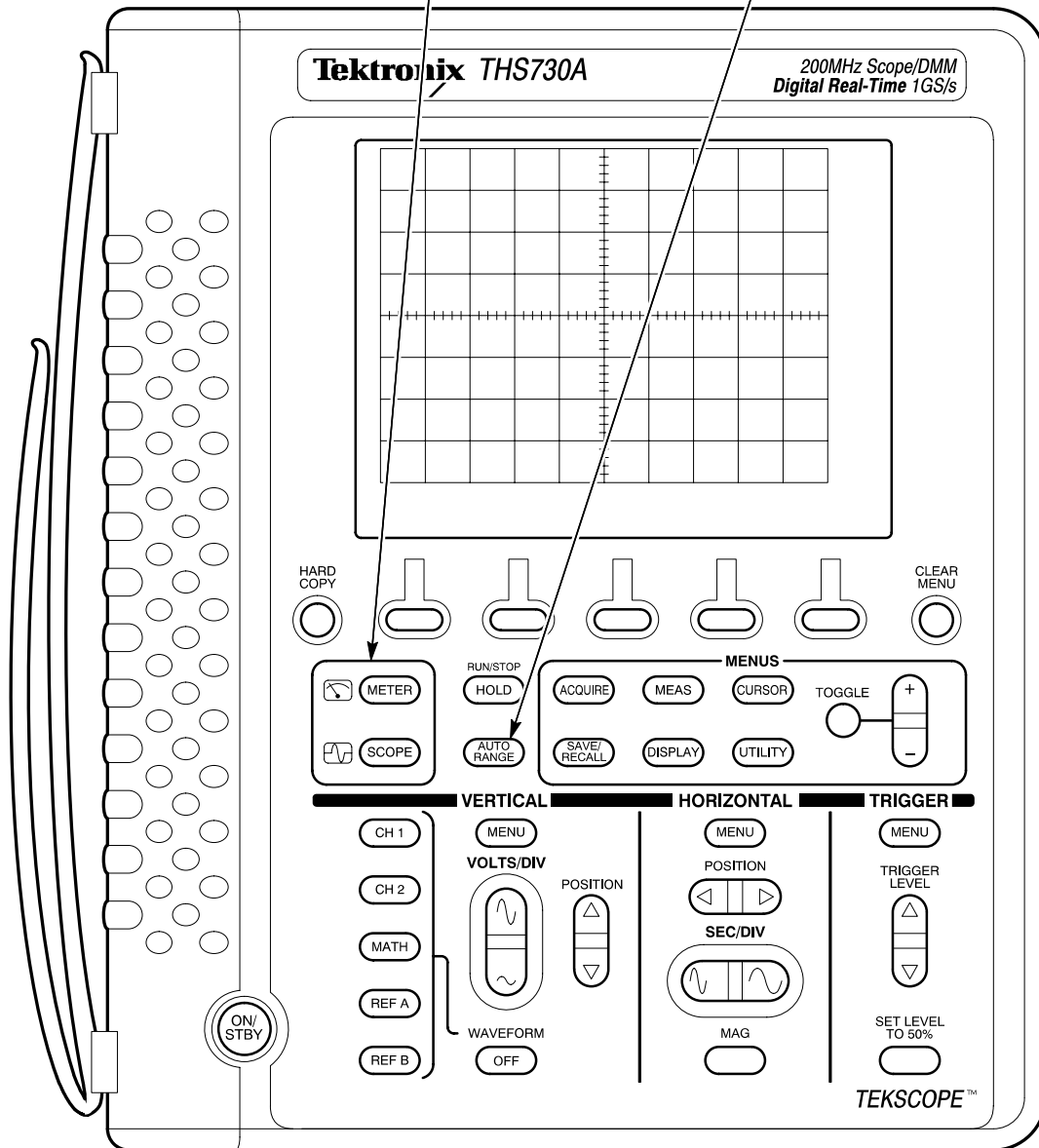


**THS710A, THS720A,
THS730A & THS720P
TekScope™
Reference**

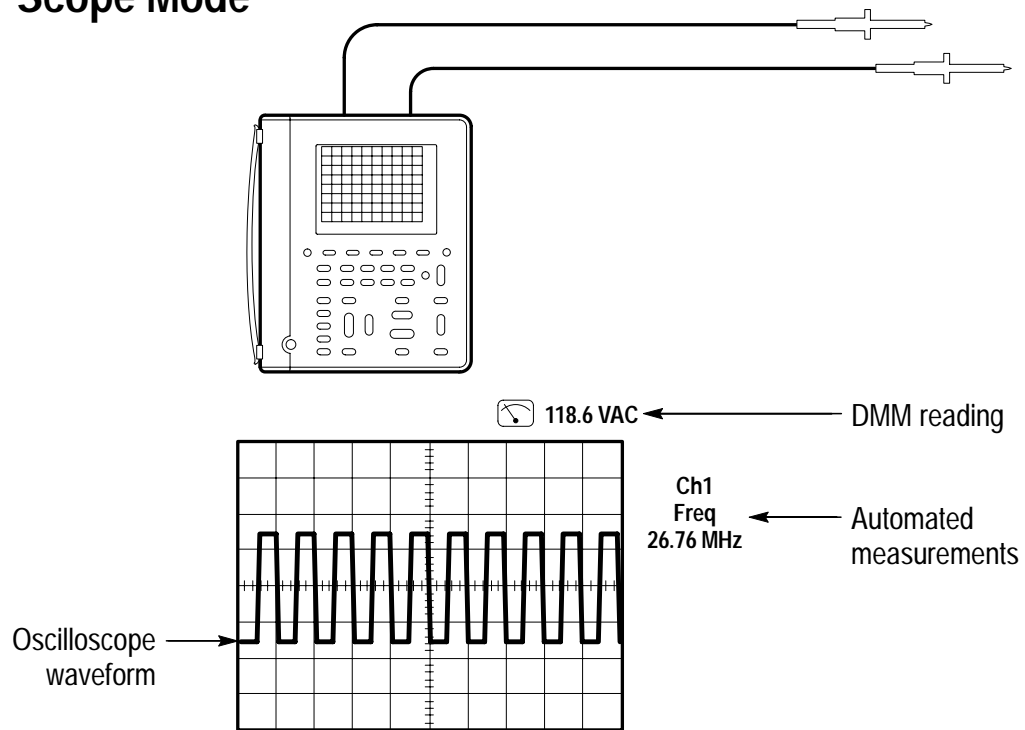
070-9741-01

Getting Started

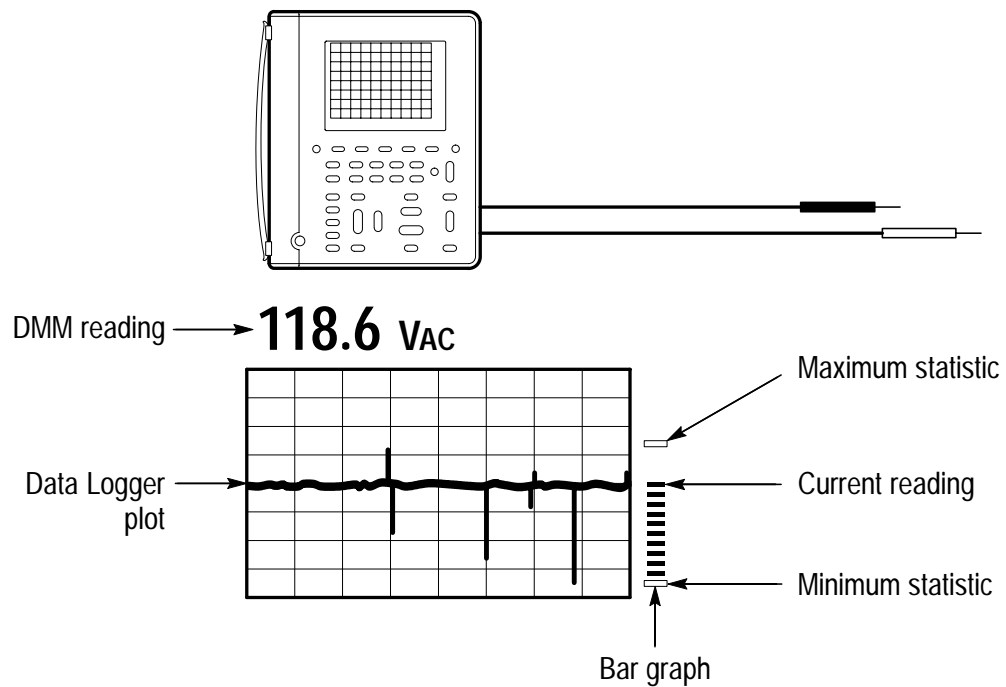
- 1 Connect probes or leads.
- 2 Choose **SCOPE** or **METER** mode.
- 3 Press **AUTORANGE**.



Scope Mode

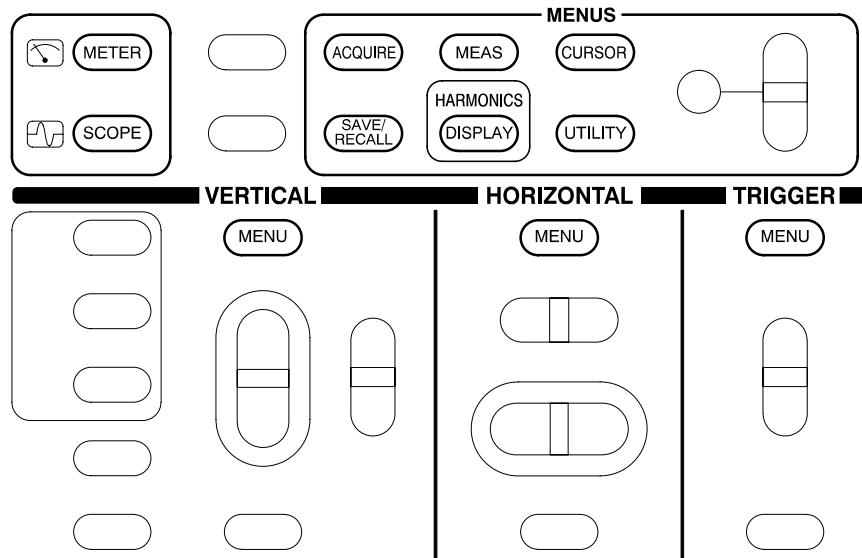


Meter Mode

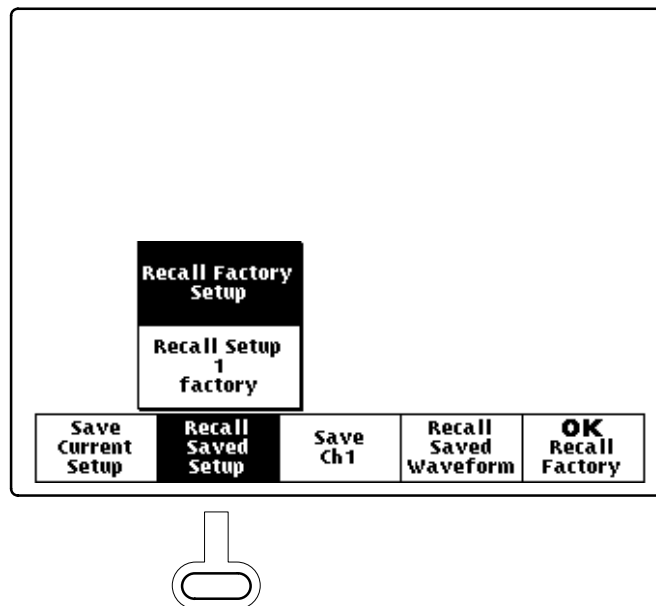


Menu System

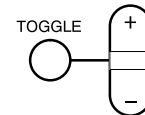
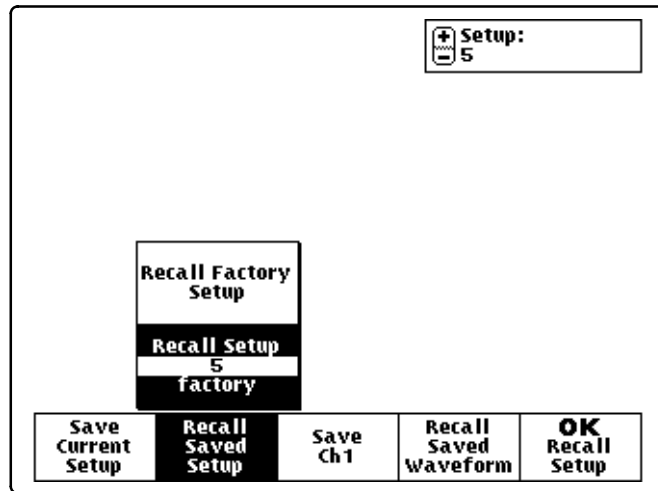
- 1 Press a front-panel button to display a menu.



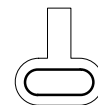
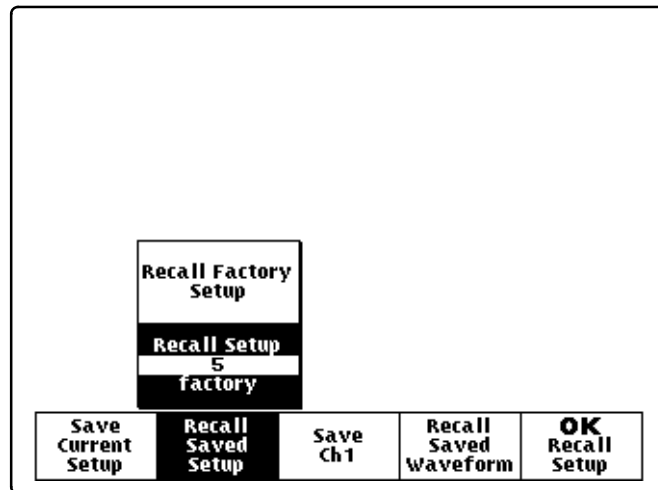
- 2 Press a bezel button to choose a menu item. If a pop-up menu appears, continue to press the bezel button to choose an item in the pop-up menu.



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



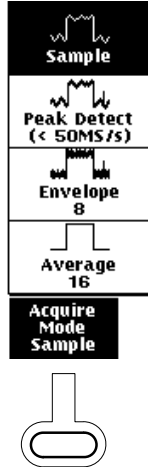
- 4 If the OK bezel button is displayed, press it to confirm your choice.



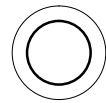
Acquisition Mode

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

ACQUIRE

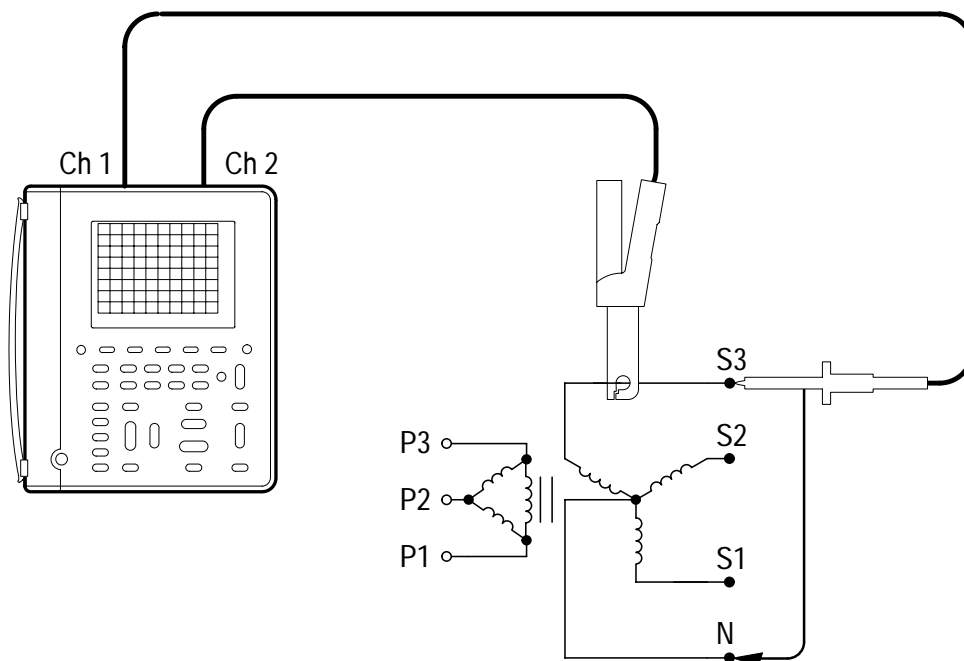


CLEAR MENU

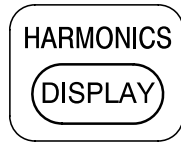


Harmonics (THS720P)

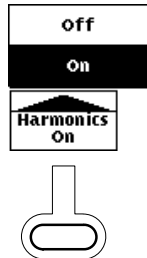
- 1 Connect the probes or leads.



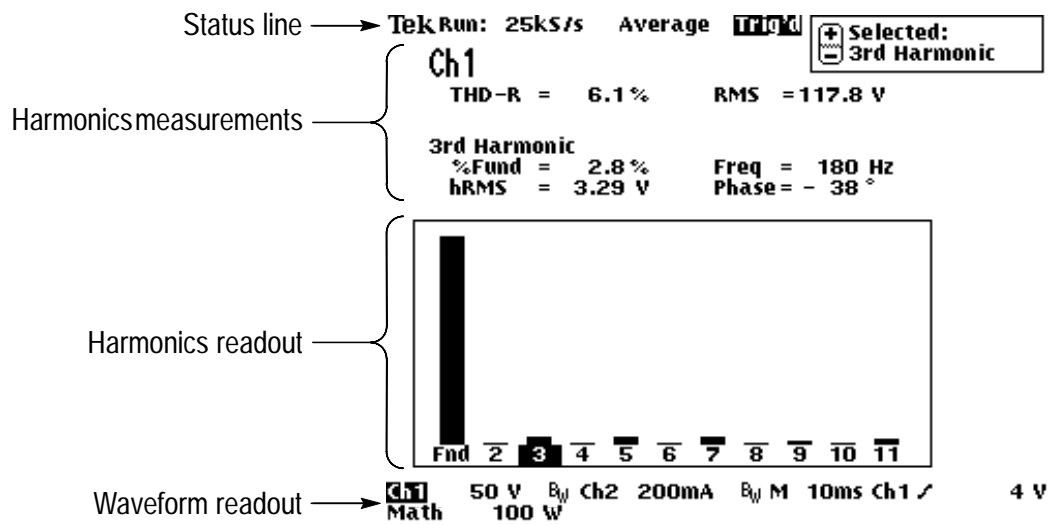
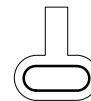
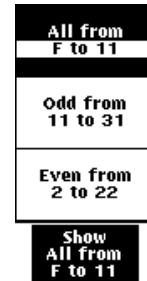
2 Press **DISPLAY** (**HARMONICS**).



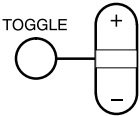
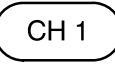
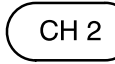
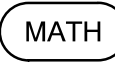
3 Choose **On**.



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>VOLTS </p> <p>Voltage harmonics</p>	<p>AMPS </p> <p>Current harmonics</p>	<p>WATTS </p> <p>Power measurements</p>
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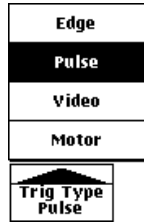
Trigger Type

1 Press **TRIGGER MENU**.

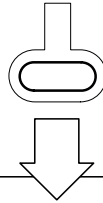
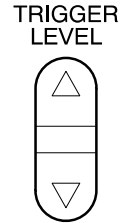
TRIGGER












MENU

2 Choose a trigger type.



3 Adjust the **TRIGGER LEVEL**.

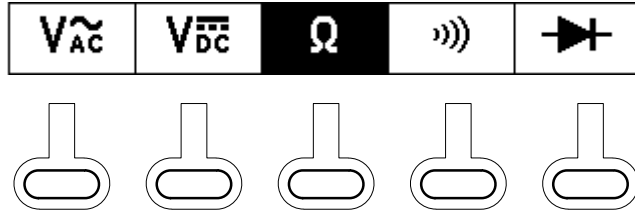


Edge or Motor		Pulse		Video	
Source	Choose Ch 1 or Ch 2 or External (Edge)	Source	Choose Ch 1 or Ch 2	Source	Choose Ch 1 or Ch 2
Coupling (Ch 1 or Ch 2)	DC  DC HF Reject  LF Reject  Noise Rej (DC Low Sensitivity)	Polarity & width	Positive ¹  Negative ¹  ¹ Set pulse width with +/- rocker	Trigger on	Odd Field ³ (Interlaced) Even Field ³ (Interlaced) Any Field ³ (Non-interlaced) Lines ³ Choose line with +/- rocker <div style="display: inline-block; vertical-align: middle; font-size: 2em;">}</div> Any line
Slope	Positive  Negative 	Trigger when	Less Than Width  Greater Than Width  Equal To Width ²  Not Equal To Width ²  ² Set tolerance	Video Class	NTSC PAL SECAM Custom Scan Rate ⁴ ⁴ Set scan rate with +/- rocker



DMM and Data Logger

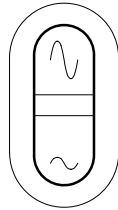
1 Choose a DMM function.



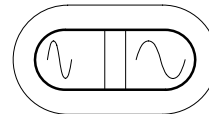
2 Press **AUTORANGE** or set a specific range.



VOLTS/DIV

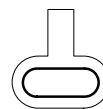
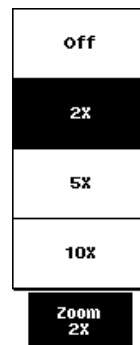


SEC/DIV



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

■ **VERTICAL** ■



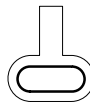
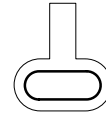
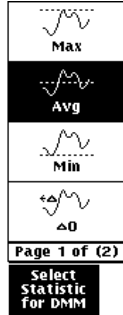


Automated Measurements

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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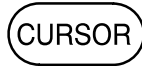
Scope Measurement Choices

 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	

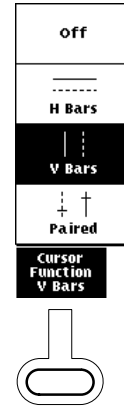


Cursors

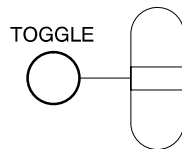
1 Press **CURSOR**.



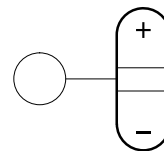
2 Choose a cursor function.



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



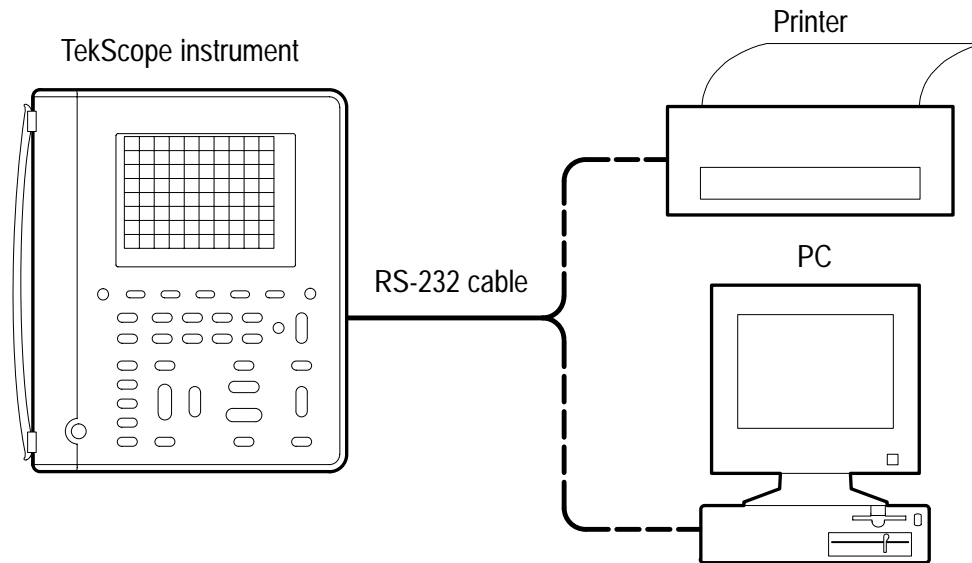
4 Use the +/- rocker to adjust the cursor position.





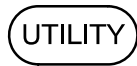
Hard Copy

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

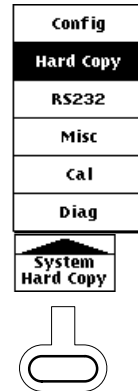


	RJ-45 to 9-pin female null modem adapter (standard)	RJ-45 to 25-pin male adapter	9-pin male to 25-pin male adapter	25-pin female to female gender adapter
HC 411 or DPU 411-II printer			●	
Most other serial printers	●		●	
Sun workstations	●		●	
PC/AT or laptop with 9-pin male connector	●			
Old-style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

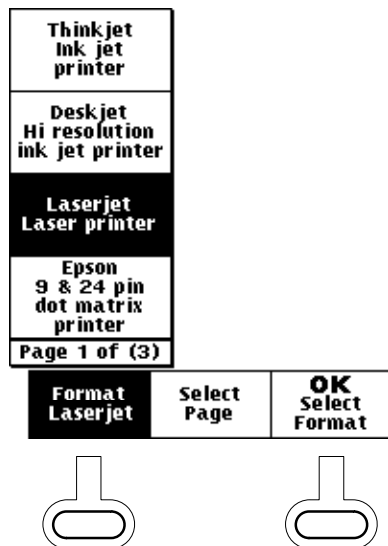
2 Press **UTILITY**.



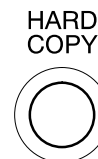
3 Choose **Hard Copy** from the System pop-up menu.



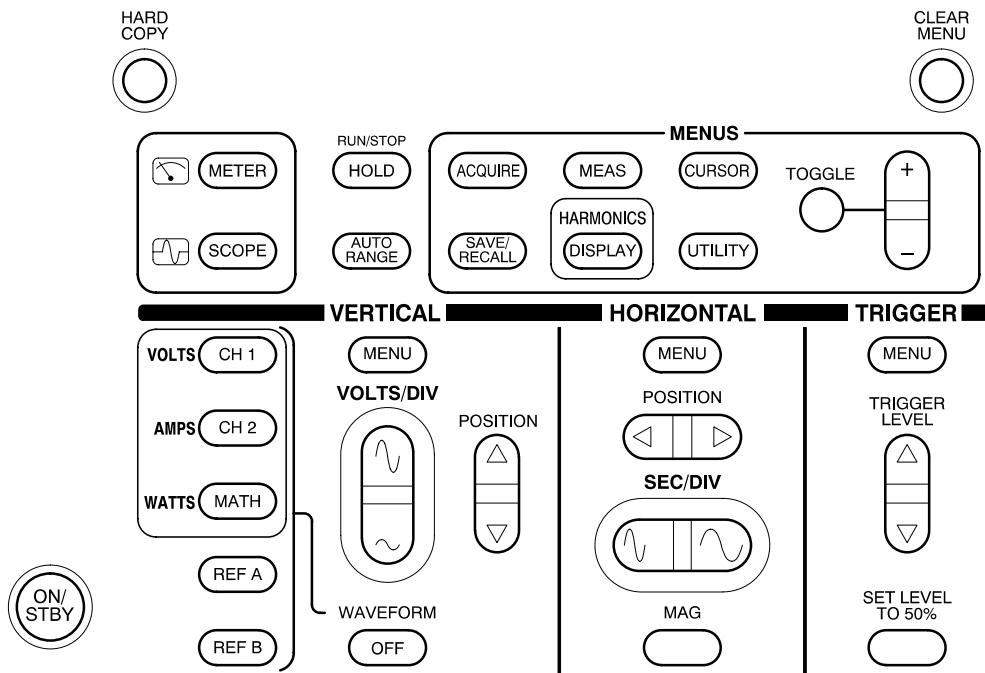
4 Choose a printer format. Press **OK**.



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.