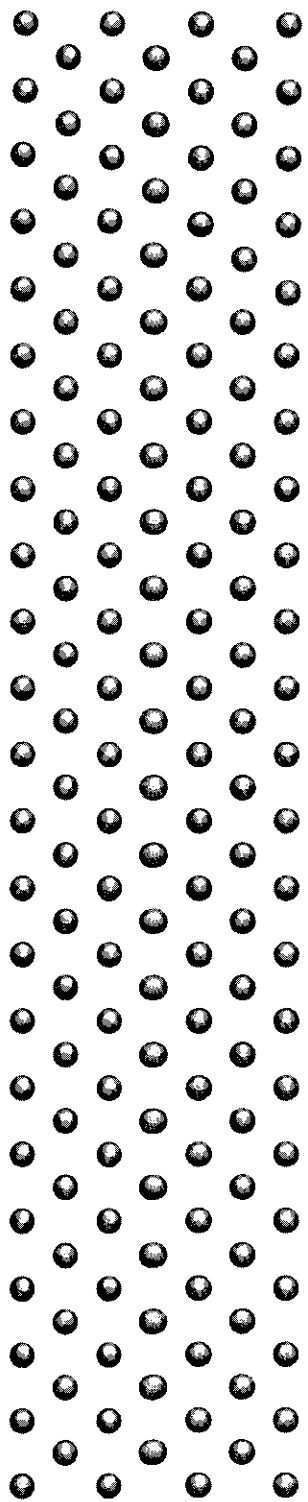


**Tektronix**

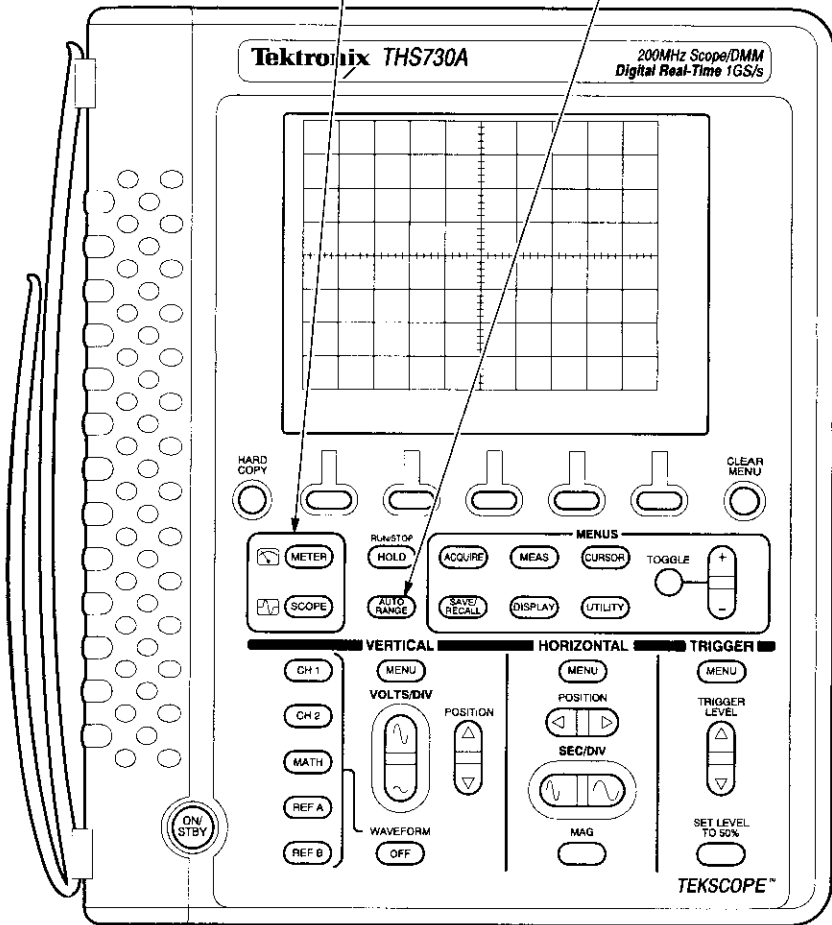
**THS710A, THS720A,  
THS730A & THS720P  
TekScope™  
Reference**

**070-9741-00**

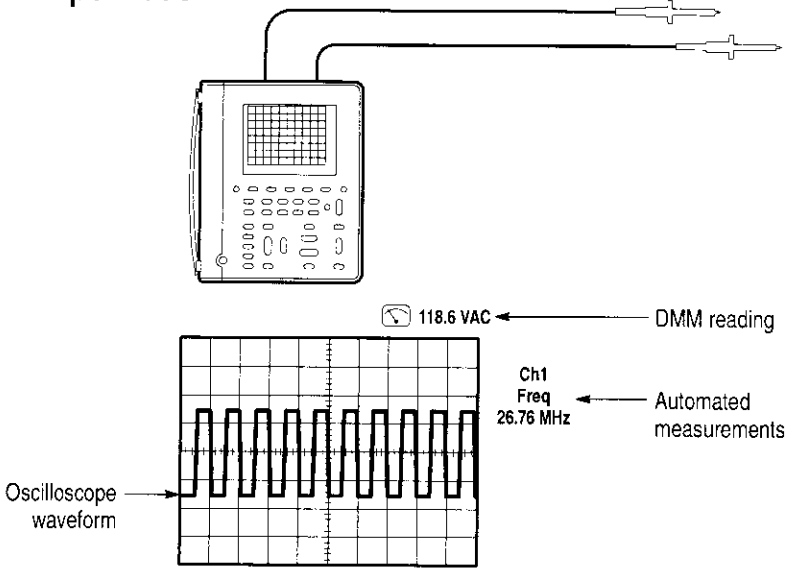


# Getting Started

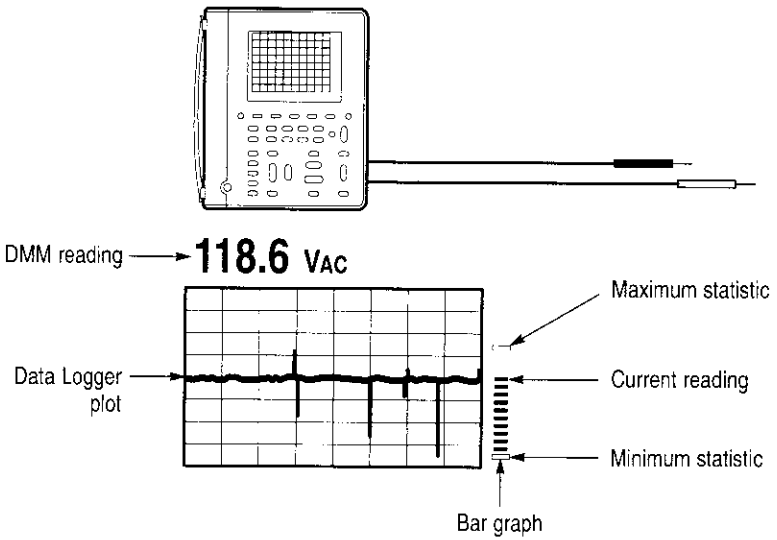
- 1 Connect probes or leads.
- 2 Choose **SCOPE** or **METER** mode.
- 3 Press **AUTORANGE**.



## Scope Mode

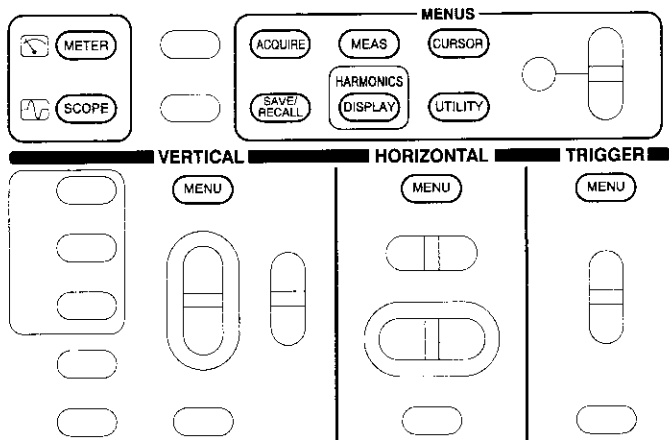


## Meter Mode

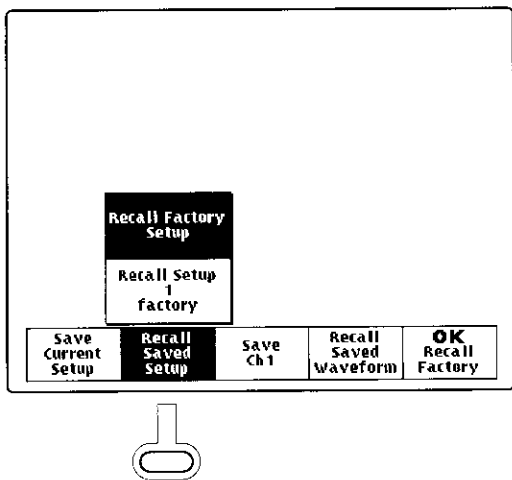


# Menu System

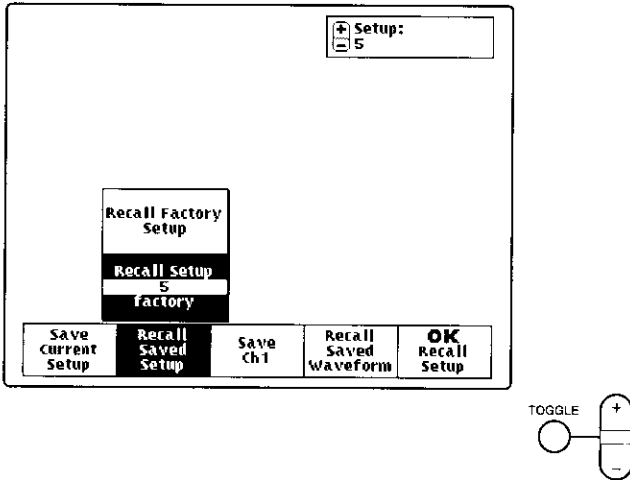
1 Press a front-panel button to display a menu.



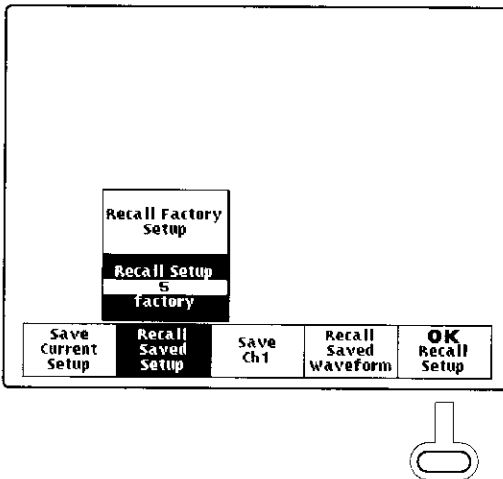
2 Press a bezel button to choose a menu item. If a pop-up menu appears, continue to press the bezel button to choose an item in the pop-up menu.



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



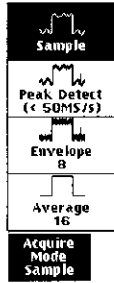
- 4 If the OK bezel button is displayed, press it to confirm your choice.



# Acquisition Mode

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

ACQUIRE

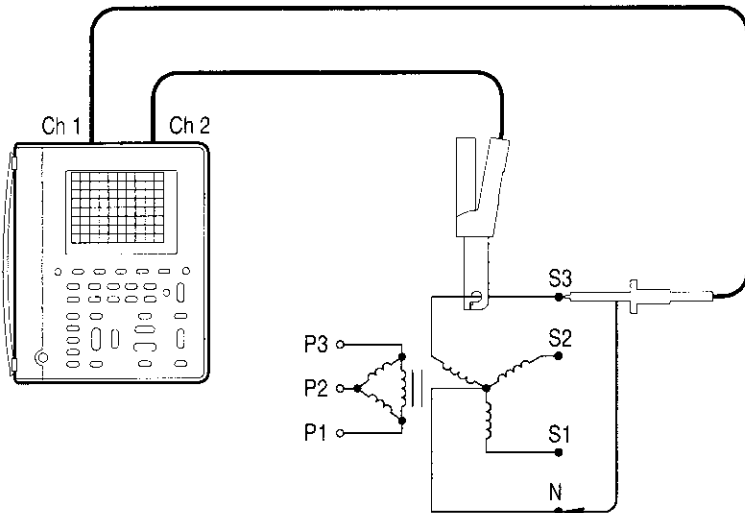


CLEAR MENU



# Harmonics (THS720P)

- 1 Connect the probes or leads.



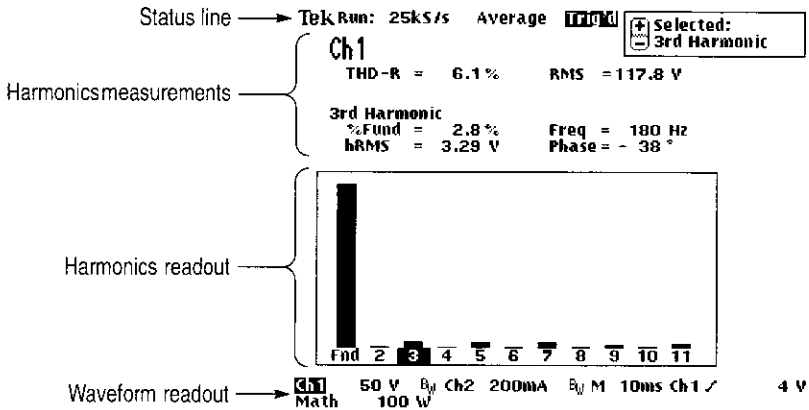
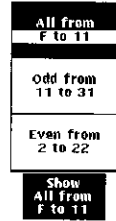
**2** Press **DISPLAY** (**HARMONICS**).



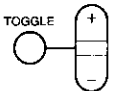
**3** Choose **On**.



**4** Choose a set of harmonics.



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



Select next harmonic

**VOLTS** CH 1

Voltage harmonics

**AMPS** CH 2

Current harmonics

**WATTS** MATH

Power measurements



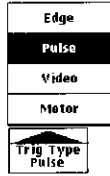
# Trigger Type

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

**TRIGGER**

MENU

**2** Choose a trigger type.



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

TRIGGER LEVEL



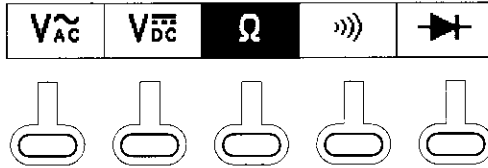
Edge or Motor		Pulse		Video	
Source	Choose Ch 1 or Ch 2 or External (Edge)	Source	Choose Ch 1 or Ch 2	Source	Choose Ch 1 or Ch 2
Coupling (Ch 1 or Ch 2)	DC	Polarity & width	Positive <sup>1</sup>	Trigger on	Odd Field <sup>3</sup> (Interlaced)
	HF Reject		Negative <sup>1</sup>		Even Field <sup>3</sup> (Interlaced)
	LF Reject		<sup>1</sup> Set pulse width with +/- rocker		Any Field <sup>3</sup> (Non-interlaced)
	Noise Rej (DC Low Sensitivity)				Lines
				} Any line <sup>3</sup> Choose line with +/- rocker	
Slope	Positive	Trigger when	Less Than Width	Scan rate	15 kHz to 20 kHz
	Negative		Greater Than Width		20 kHz to 25 kHz
			Equal To Width <sup>2</sup>		25 kHz to 35 kHz
			Not Equal To Width <sup>2</sup>		35 kHz to 50 kHz
		<sup>2</sup> Set tolerance			50 kHz to 65 kHz





# DMM and Data Logger

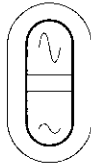
- 1 Choose a DMM function.



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

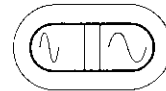


VOLTS/DIV



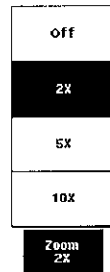
- 3 Set the Data Logger rate.

SEC/DIV



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

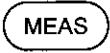
■ VERTICAL ■



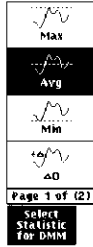


# Automated Measurements

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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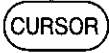
## Scope Measurement Choices

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	

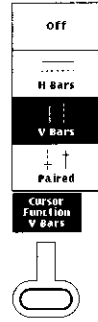


# Cursors

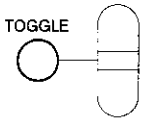
1 Press **CURSOR**.



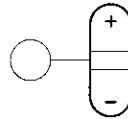
2 Choose a cursor function.



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



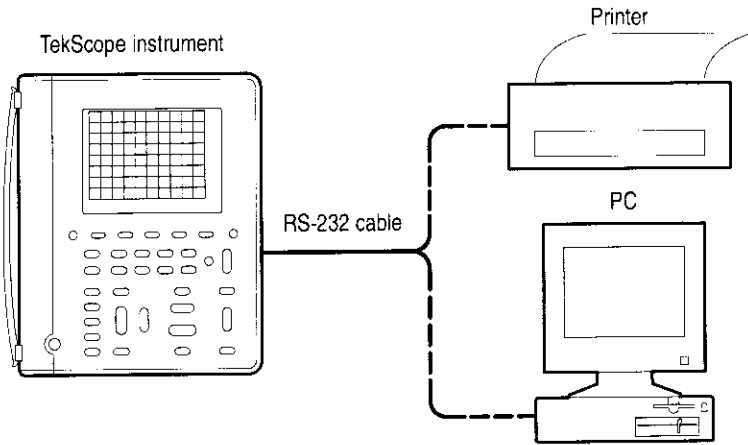
4 Use the +/- rocker to adjust the cursor position.





# 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.

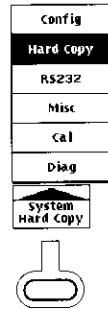


RJ-45 to 9-pin female null modem adapter (standard)	RJ-45 to 25-pin male adapter	9-pin male to 25-pin male adapter	25-pin female to female gender adapter
HC 411 or DPU 411-II printer		●	
Most other serial printers	●		●
Sun workstations	●		●
PC/AT or laptop with 9-pin male connector	●		
Old-style PC with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

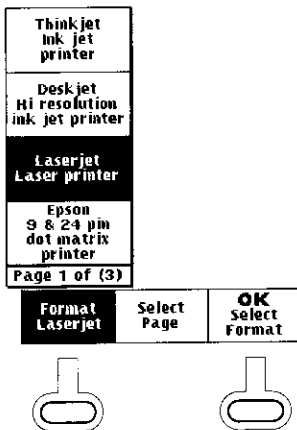
**2** Press **UTILITY**.



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



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

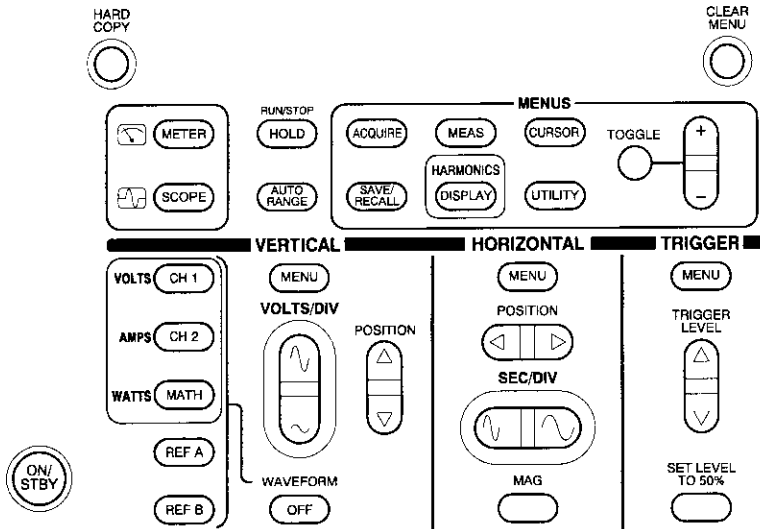


**5** When ready to print, press **HARD COPY**.



# Front-Panel Buttons

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**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.

