

Handheld Battery Operated Oscilloscope/DMM

TekScope® THS700 Series * THS730A * THS720A * THS710A

Characteristics

OSCILLOSCOPE FUNCTIONS

	THS730A	THS720A	THS710A
Bandwidth	200 MHz	100 MHz	60 MHz
Sample Rate (Each Channel)	1 GS/s	500 MS/s	250 MS/s
Time/Division Range	2 ns to 50 s/div	5 ns to 50s/div	10 ns to 50s/div

OSCILLOSCOPE FUNCTIONS

Channels - Two.

Sensitivity - 5 mV to 50 V/div (to 500 V/div with 10X probe).

Position Range - ± 10 div.

DC Gain Accuracy - $\pm 2\%$.

Vertical Resolution - 8-Bits.

Record Length - 2500 points.

Horizontal Accuracy - ± 200 ppm.

Roll Mode - ≥ 0.5 s/div.

Autorange - User-selectable.

Trigger Modes - Auto, Normal.

Trigger Types - Edge, Pulse, Video, External.

Video Trigger Formats and Field Rates - Odd field, even field, and line.

External Trigger Input - 5 MHz TTL compatible.

Waveform Processing - Add, Subtract, Multiply, Calculate
Watts = $V \times I$.

Waveform Storage - 10 waveforms.



THS730A

Acquisition Modes - Sample, Envelope, Average, Peak Detect.

Cursor Measurements - Δ Volts, Δ Time, $1/\Delta$ Time (Hz), Degree (phase).

Cursor Types - Horizontal Bars, Vertical Bars, Paired (volts @ time).

Display System - Interpolation: $\sin(x)/x$.

Format - YT and XY.

Mode: Vector, Dot, Vector Accumulate, Dot Accumulate.

AUTOMATIC MEASUREMENTS:

Period	Frequency
+Width	-Width
Rise Time	Fall Time
+Duty Cycle	-Duty Cycle
+Overshoot	-Overshoot
High	Max,
Low	Min,
Peak-to-Peak	Amplitude
Mean	RMS
Cycle Mean	Cycle RMS,
Burst Width	

DMM SPECIFICATIONS

DC Voltage Ranges - 400.0 mV to 880 V.

DC Volts Accuracy - $\pm(0.5\%$ of reading + 5 counts).

True RMS AC Voltage Ranges - 400.0 mV to 640 V.

Maximum Float Voltage - 600 VRMS each channel (probe dependent).

Resolution - 4000 count, 3-3/4 digits.

AC Volts Accuracy - $\pm(2\%$ of reading + 5 counts).

Resistance Ranges - 400.0 Ohm to 40.00 megaohm.

Resistance Accuracy - $\pm(0.5\%$ of reading + 2 counts); 40 megaohm: $\pm(2\%$ of reading + 5 counts).

Diode Test Range - 0 to 2 V.

Continuity Check - Audible tone when < 50 Ohm.

Modes - Min, Max, delta *Max-Min, Avg, Hold.

Non-volatile Storage - 10 DMM screenshots.

External Trigger Input - 5 MHz TTL compatible.

Vertical Zoom Capability - 2X, 5X, 10X.

dB Scale - Selectable, referenced from 1 mV to 10 V.

dBm Scale - Selectable, referenced from 50 Ohm to 600 Ohm.

GENERAL SPECIFICATIONS

Setups - 10 front-panel setups.

Safety Certification - UL 3111-1 Listed, CSA Certified, complies with EN61010-1.

Power - NiCd rechargeable battery pack with AC adapter (both included).

Battery Life - Approx. 2 hours from full charge.

Display - Backlit LCD.

Display Resolution - 320 x 240.

PHYSICAL CHARACTERISTICS

Dimensions	mm	in.
Width	177	6.95
Height	217	8.53
Depth	51	2
Weight	kg	lbs.
Net	1.45	3.2



Tektronix Measurement products are manufactured in ISO registered facilities.



49A-10733-2p96, 05/1993, 04/25/1998