

Handheld Battery Operated Oscilloscope/DMM/Power Analyzers

TekScope® THS730A * THS720A * THS720P



THS730A.

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CHARACTERISTICS

Oscilloscope Functions

	THS730A	THS720A	THS720P
Bandwidth	200 MHz	100 MHz	100 MHz
Sample Rate (Each Channel)	1 GS/s	500 MS/s	500 MS/s
Time/Division Range	2 ns to 50 s/div	5 ns to 50s/div	5 ns to 50s/div
Power Measurements	N	N	Y

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.

Time/Division Range (THS720P only) - 5 ns to 50 s/div.

Horizontal Accuracy - ± 200 ppm.

Roll Mode - ≥ 0.5 s/div.

Autorange - User-selectable.

Trigger Modes - Auto, Normal.

Trigger Types - Edge, Pulse, Video, External, Motor (THS720P).

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

Motor Trigger (THS720P only) - Triggers on 3- and 5-level pulse-width modulated power signal.

External Trigger Input - 5 MHz TTL compatible.

Harmonics (THS720P only) - Up to 31st (30 Hz-450 Hz).

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

Waveform Storage - 10 waveforms.

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

Cursor Measurements - delta Volts, delta Time, 1/deltaTime (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	

Power Measurements (THS720P Only) -

W	True power
VA	Apparent power
VAR	Reactive power
V	Volts (RMS, Peak)
A	Amps (RMS, Peak)
THD-F	Total harmonic distortion as a percentage of the fundamental
THD-R	Total harmonic distortion of the RMS of the input signal
PF	Power factor
DPF	Displacement power factor
PHI	Phase difference between the voltage and current

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 CAT II, 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.

Nonvolatile 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 - UL3111-1, CSA1010.1, EN61010-1, IEC61010.1.

EMC - Meets Directive 89/336/EEC.

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

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