



THS730A.

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## Handheld Battery Operated Oscilloscope/DMM/Power Analyzers

TekScope® THS730A \* THS720A \* THS720P

### 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** -  $\pm 10$  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** -  $\pm 200$  ppm.

**Roll Mode** -  $\geq 0.5$  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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