

# 36873-TE

## 5MHz Handheld Mini Scope

Full function, handheld mini oscilloscope with high resolution 2.4 inch 320x240 LCD screen.  
 3hr. run time on charged battery. One button AUTO displays the waveform complicated adjustments. Waveform file manager (Save Wave) supports thumbnail browsing, detail view, delete. Day mode (White Background) and Night mode (Black Background)

Measures up to 11 parameters: VPP, Vmax, Vmin, Vavg, Vrms, Frequency, Duty+, Duty-, Time+, Time-, Time

Analog bandwidth: 5MHz

ADC precision: 8 bits

Maximum real time sampling rate: 20MS/s

Vertical sensitivity: 50 mV/div - 200 V/div (>40V requires 10X probe)

Input: BNC Jack

Input impedance: 1Mohm

Horizontal time base range: 50S/div ~ 250nS/div

Trigger: Single, Normal or Automatic

Trigger Edge: Selectable Rising or Falling

Coupling: AC or DC

Maximum Input Voltage: 40V (1X probe), 800 V (10X probe) AC, DC or DC+AC

Memory: 16M storage space, 500 waveform pictures max

Power supply: 1200 mAh lithium battery

H: 4-3/4" O/A W: 2-7/8" T: 1" WT: .6

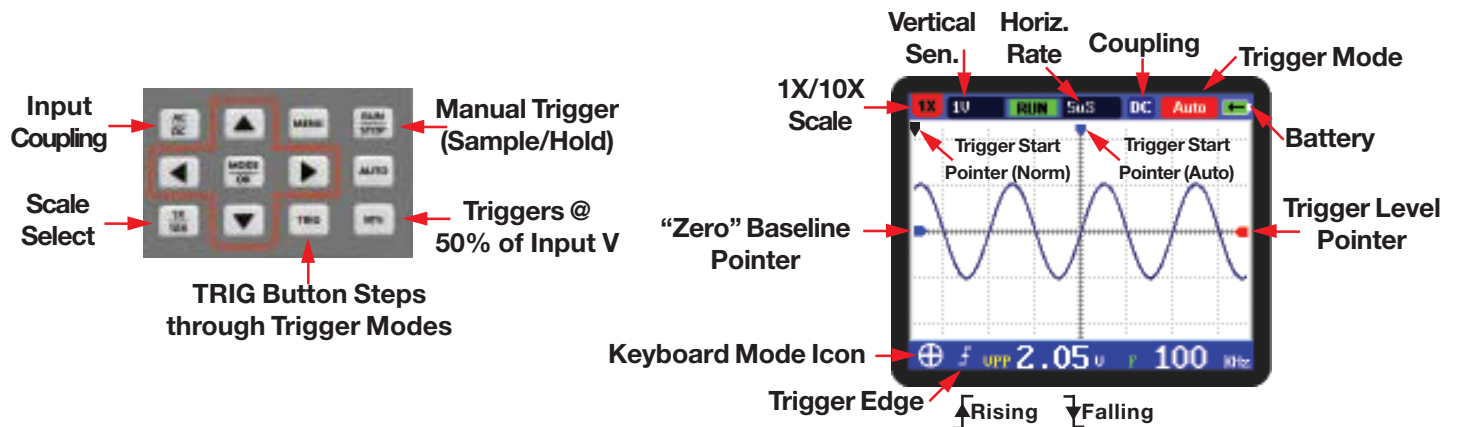


### WARNING:

**IF MEASURED VOLTAGE IS GREATER THAN 40V AC, DC or DC+AC.**

**YOU MUST USE A 10X PROBE OR THE SCOPE WILL BE DAMAGED.**

**THE 1X/10X SELECTION ON THE SCOPE DOES NOT AFFECT THE INPUT, ONLY THE SCALE OF THE SCOPE**



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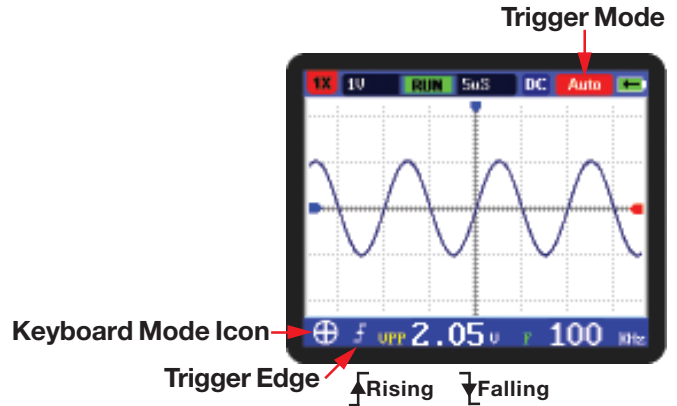
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Pressing "MODE" Changes Keyboard Function

### Keyboard Mode Icon

Icon	Button	Function
⊕	▲▼ ◀▶	All Trigger Modes in Run Only Buttons adjust Vertical Sensitivity Buttons adjust Horizontal Rate
⬆	▲▼ ◀▶	Auto Trigger Mode in Run & Stop (Only Shows in AUTO Mode) Buttons adjust Base Line Buttons adjust pre-Trigger
↕	▲▼ ◀▶	Single & Normal Trigger Modes in Run & Stop Buttons adjust Base Line Buttons Not Functional
⬆ <sup>T</sup>	▲▼ ◀▶	Single Trigger Mode in Stop (Run until set Level) Buttons adjust Trigger Voltage Level Buttons select Rising or Falling Edge Trigger
	▲▼ ◀▶	Normal Trigger Mode in Run Buttons adjust Trigger Voltage Level Buttons select Rising or Falling Edge Trigger
	▲▼ ◀▶	Normal Trigger Mode in Stop Buttons Not Functional Buttons select Rising or Falling Edge Trigger
	▲▼ ◀▶	Auto Trigger Mode in Run Buttons Not Functional Buttons select Rising or Falling Edge Trigger
	▲▼ ◀▶	Auto Trigger Mode in Stop Buttons adjust Trigger Voltage Level Buttons select Rising or Falling Edge Trigger



### SETUP OPTIONS

Pressing "MENU" brings up Setup Screen

Pressing ▲ or ▼ Scrolls through menu

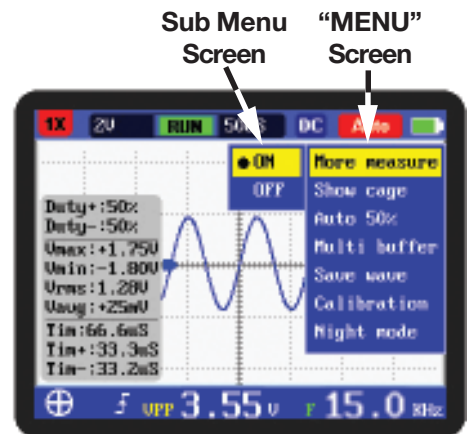
Pressing "MODE/OK" or ◀ Shows present sub menu selection.  
NOTICE the "Dot" and "Highlighted" choice.

Pressing ▲ or ▼ Alternates "Highlighted" Sub selection NOT the "Dot"

Pressing "Mode/OK" moves the "Dot" to the Highlighted choice.  
(Stores Selection)

Pressing ▶ Closes sub menu & returns to Setup Screen

Press "MENU" to close Setup Screen



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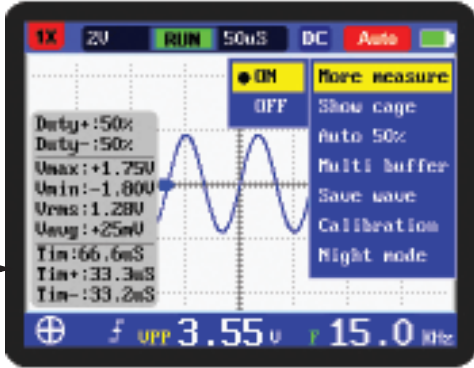
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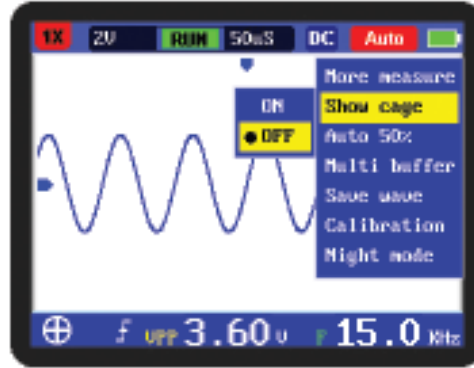
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### SCREENS BASICS

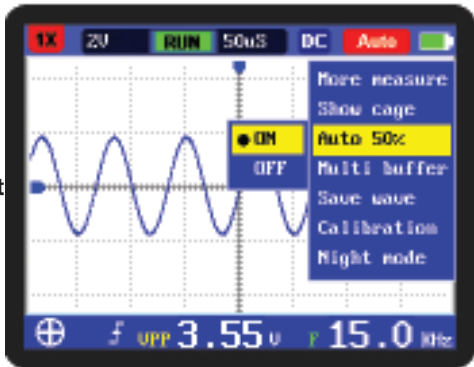
Turning ON  
"More Measure"  
Opens Detail  
Measurement  
Screen →



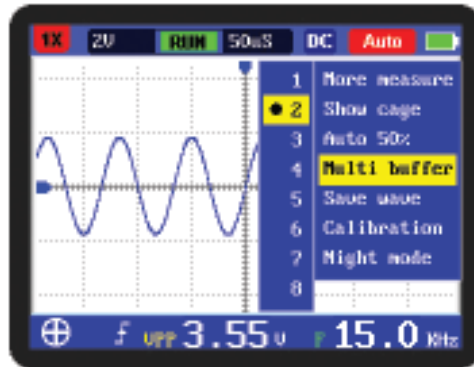
Turning OFF  
"Show Cage"  
Removes Grid  
From Screen



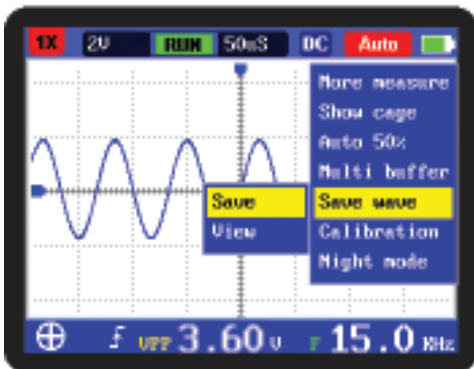
Turning ON  
"Auto 50%"  
Sets the Trigger  
at  
50% of peak



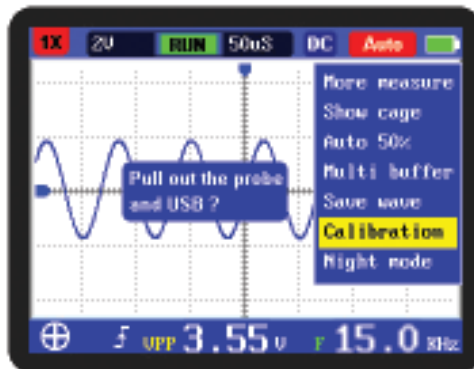
"Multi Buffer"  
Waveform  
Persistence  
Adjust for Fast or  
Slow Waveforms



"Save Wave"  
Select "Save" to  
store waveform  
Press "Mode/OK"  
to save  
"Save" changes  
to "Complete"  
Select "View"  
to review Stored  
Waveform(s)



"Calibration"  
Disconnect  
Probe and  
Charger  
Press "MODE/OK"



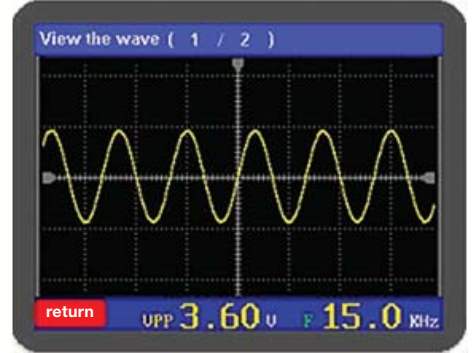
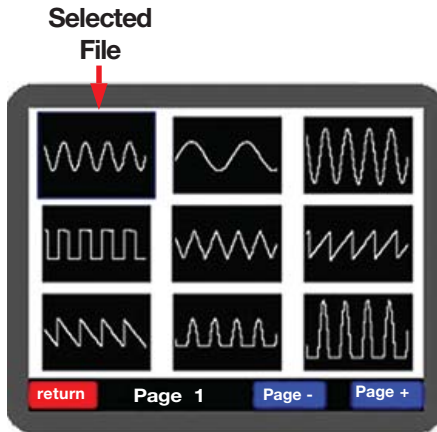
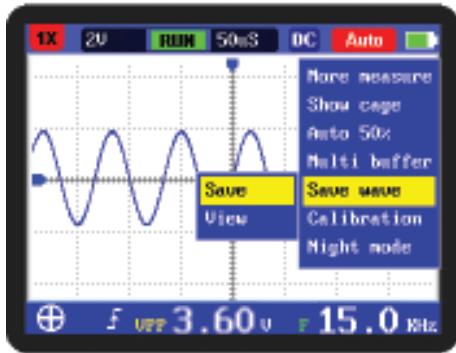
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### SAVING/VIEWING WAVEFORM(s)



SAVED FILES

SELECTED FILE

### SAVE

- Press "MENU" to bring up Setup Screen
- Press ▼ to Scroll to "Save Wave"
- Press "MODE/OK" or ◀ to display "Save" and "View" selection ("Save" is Highlighted)
- Press "Mode/OK", "Save" will change to "Complete"
- Press ▶ To return to main Setup Screen
- Press "Menu" to return to normal operation

### VIEW

- Press "MENU" to bring up Setup Screen
- Press ▼ to Scroll to "Save Wave"
- Press "MODE/OK" or ◀ to display "Save" and "View" Sub screen ("Save" is Highlighted)
- Press ▼ to select "View"
- Press "MODE/OK"
- Screen will display saved waveforms (9/Page)
- Use ▲ ▼ ▶ ◀ to Select desired waveform to review (Selected will Slightly Larger)
- To change pages (>9 stored waveforms)
- Press "RUN/STOP" to Increase page#, Press "MENU" to decrease Page #.

### NOTE

- After selecting waveform to view, Press "MODE/OK" to view waveform.
- Pressing "MODE/OK" again will display the more "Detail Measurement" Screen
- Press "AC/DC" to step back through screens
- NOTE that Bottom Left of LCD shows "Return". When "Return" disappears you are back to normal operation.



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