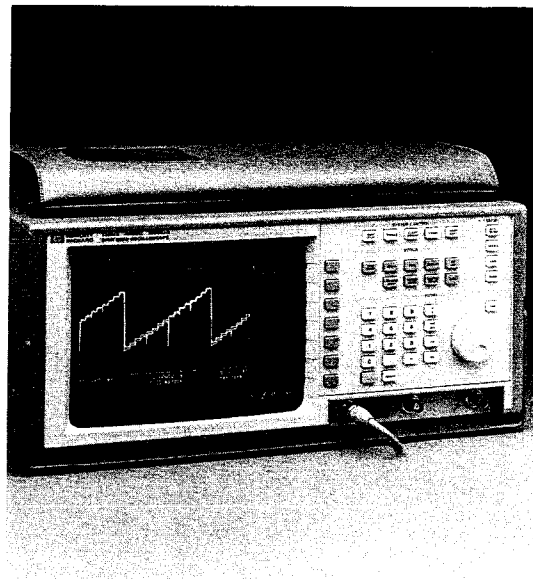


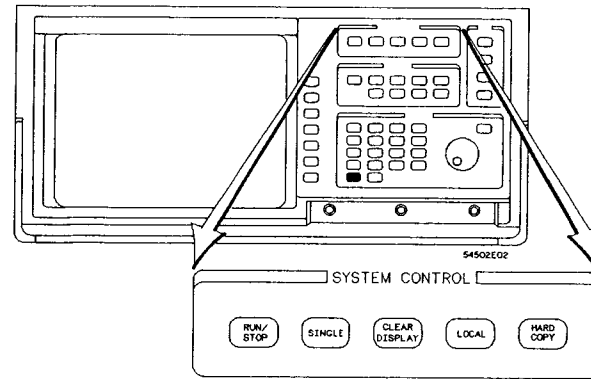
Quick Reference Guide HP 54504A 400 MHz Digitizing Oscilloscope



Use this *Quick Reference Guide* to locate the desired key and function until familiar with the instrument. If more experience is needed with the HP 54504A, read the *Getting Started Guide* and do the exercises. For more in-depth information see the *Front-Panel Reference manual*.

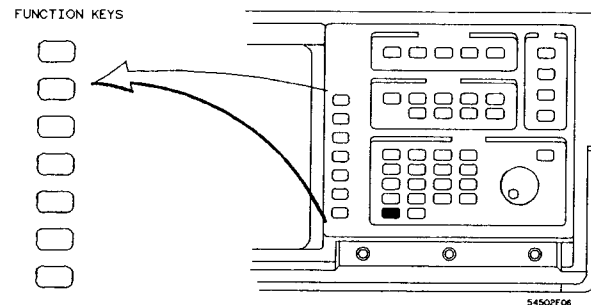
The HP 54504A front panel has five functional sections.

- System Control
- Entry
- Setup
- Menus
- Function Selection



Keys in the **SYSTEM CONTROL** section cause immediate action when selected.

- RUN/STOP and SINGLE control acquisition mode.
- LOCAL returns the instrument from bus to local control.
- HARD COPY activates immediate output of the display and measurement factors to plotter/printer.

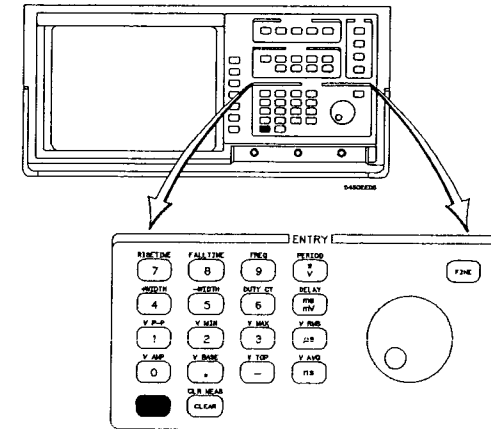


Each key in the function key section corresponds to a function displayed in the menu.

- Keys select functions within the menu.
- Functions displayed in full-bright are controlled by the knob and keypad.
- Functions in half-bright are controlled by corresponding keys.

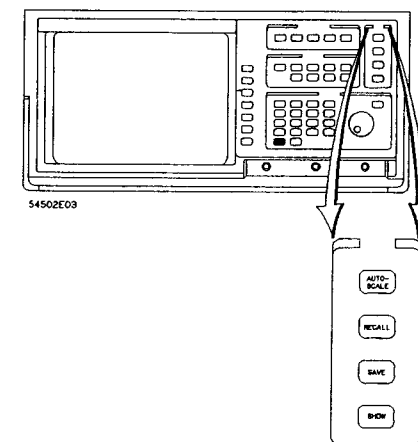
The **ENTRY** devices consist of a numeric keypad and knob.

- Keypad is used to enter numeric data when terminated with a units selection.
- Shift (Blue) key changes to automatic measurement keys.
- Knob changes highlighted fields.
- Knob selects f# (function), c# (channel), or m# (memory) when making automatic measurements

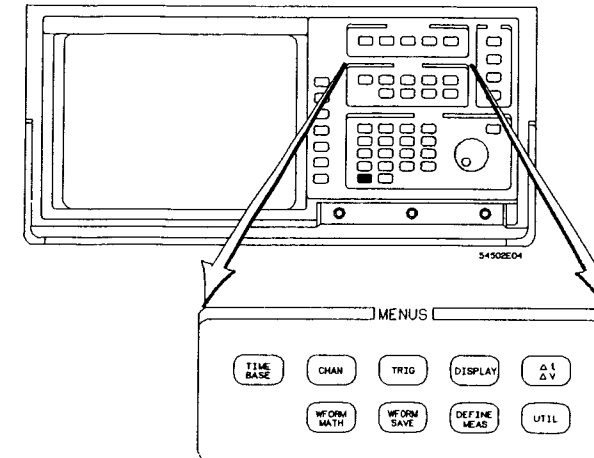


The **SETUP** section consists of pushbutton control for automatic setup or previous setups.

- AUTOSCALE automatically sets display parameters for vertical and horizontal scaling.
- SAVE and RECALL store to and retrieve from memory setup registers
- SHOW key toggles to a screen with complete and detailed waveform setup information.



MENUS access any of nine separate subsystems. On the back of this guide are menu maps that guide to any function.



To make automatic measurements from the front panel, first display a waveform, then:

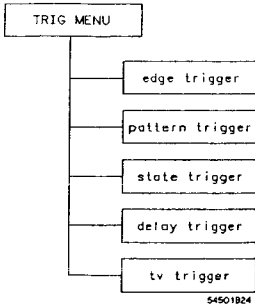
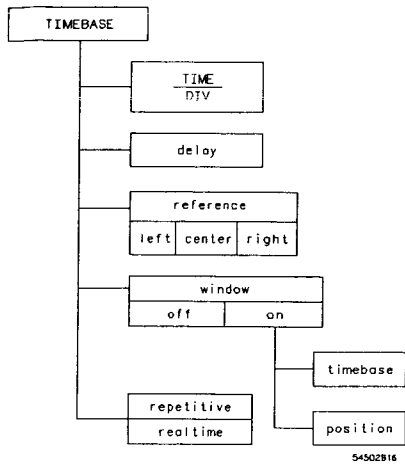
- press the blue (shift) key on the keyboard (Entry Devices),
- press the key that corresponds to the desired measurement (labelled in blue above the key),
- select the waveform source, m#, c#, or f# (turn the knob until the source of the displayed waveform is highlighted),
- then press key for measurement source (channel number, function number, memory number).

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The **Timebase Menu** controls the horizontal axis.

- variable settings for time/division
- delays the displayed trigger point
- accesses the dual timebase window

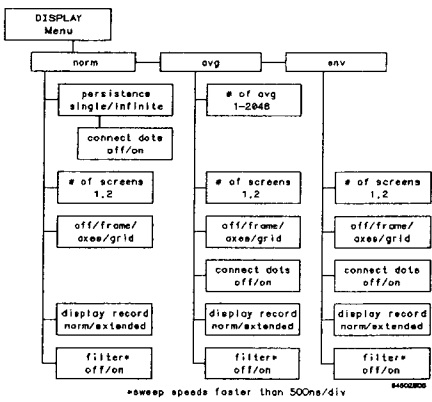


The **Trigger Menu** accesses the triggering modes.

- edge trigger
- pattern trigger
- state trigger
- delay trigger
- TV trigger

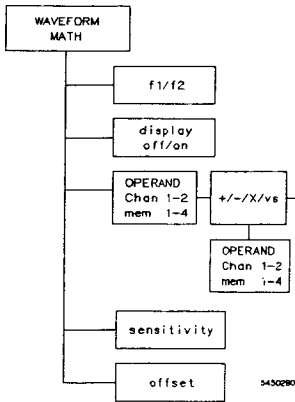
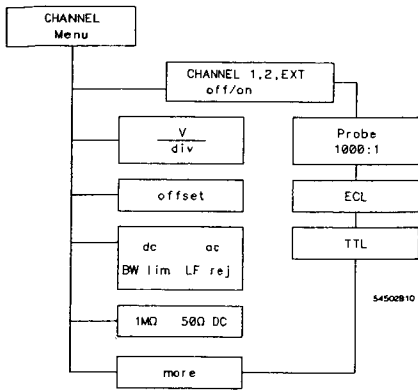
The **Display Menu** controls modes of display and viewing options.

- acquisition modes
- display modes
- display background
- number of viewing areas



The **Channel Menu** controls the vertical axis.

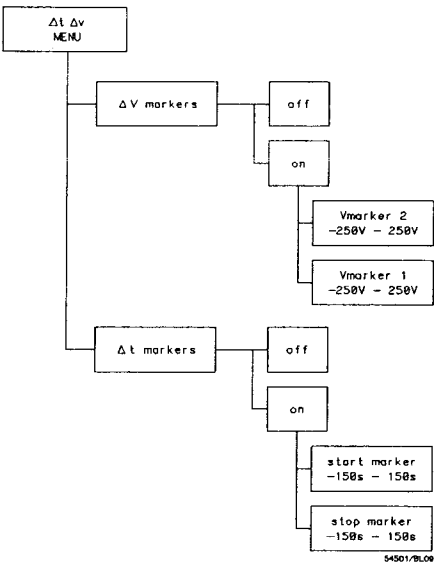
- voltage/div
- input coupling
- attenuation
- TTL and ECL family presets



The **Waveform Math Menu** controls :

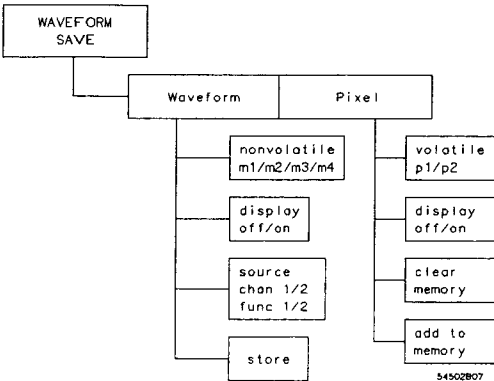
- six math functions.
- scaling and offset of the resultant waveform.

The **Δt/ΔV Menu** accesses markers for delta time/delta voltage manual measurements.



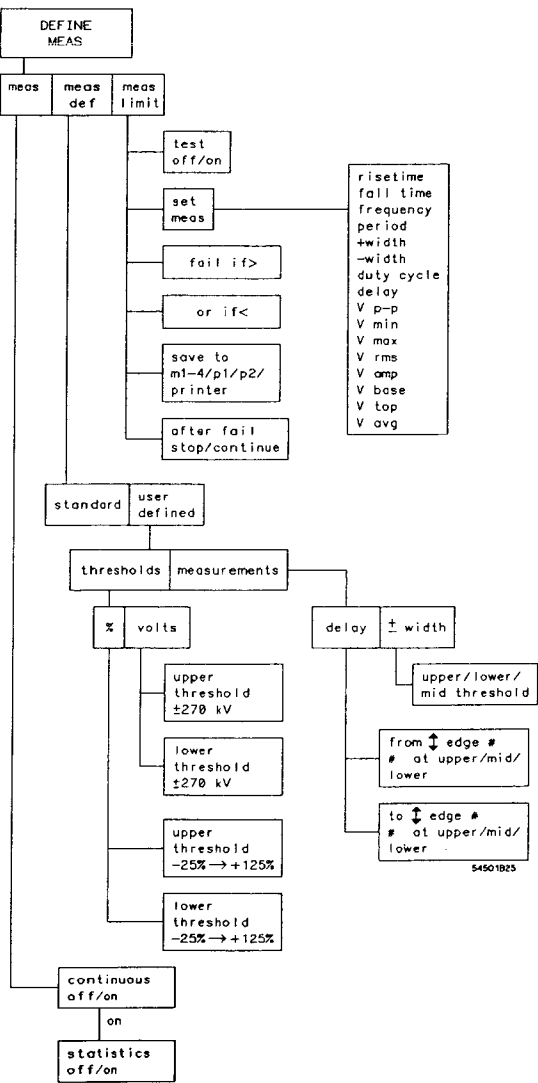
The **Waveform Save Menu** controls the memories for saving waveforms.

- four waveform memories
- two pixel memories



The **Define Measure Menu** defines standards and limits for automatic measurements.

- define the automatic measurement parameters
- limit test
- continuous measure and update



The **Utility Menu** is for internal software calibration, selftests, and interface control.