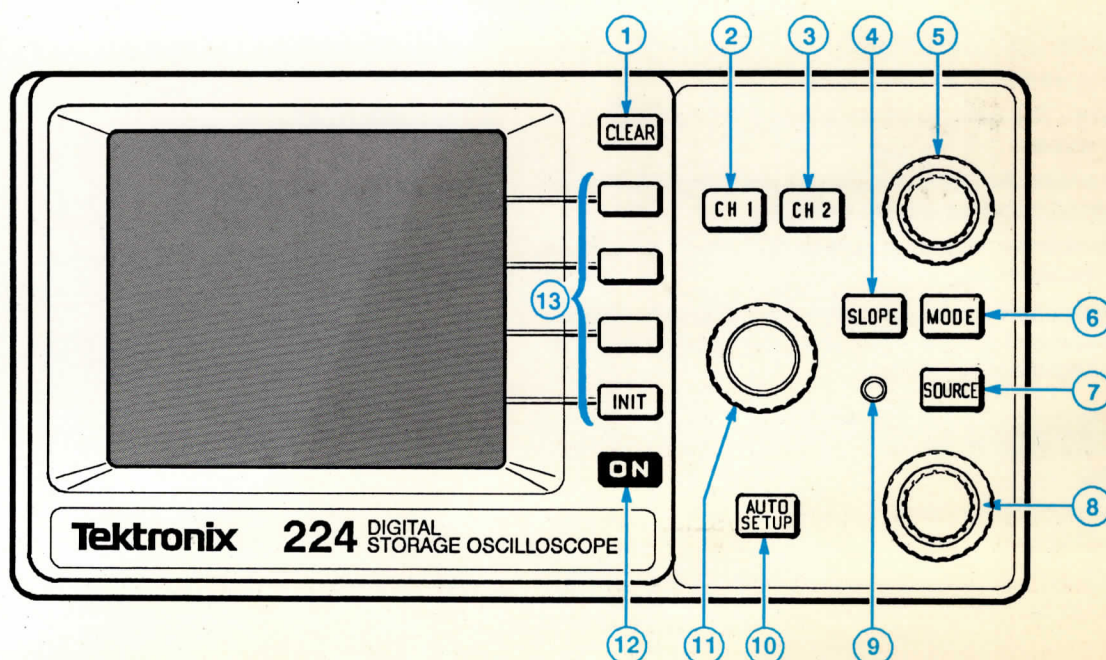
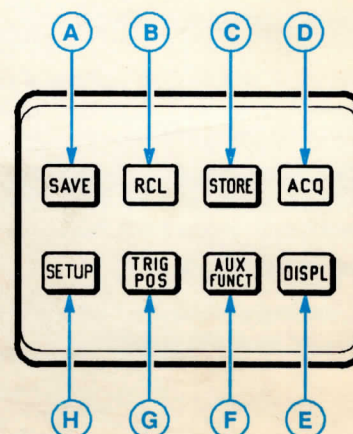


# TEK 224 Digital Storage Oscilloscope

070-8475-00  
Quick Reference

- A** Halts the acquisition and calls up the SAVE menu to save waveforms in nonvolatile memory.
- B** Calls up the RECALL WVFRM menu to recall saved waveforms from nonvolatile memory for display.
- C** Switches between STORE (display freezes between triggers) and NONSTORE (display blanks between triggers).
- D** Calls up the ACQ menu (NORM, ENV, AVG, and CONT ENV).
- E** Calls up the DISPLAY menu (INV1, INV2, XY, and RO OFF).
- F** Calls up the AUX menu (ALIGN, SELF CAL, CONFIG, and EXT TV TRIG).
- G** Calls up the TRIG POS menu (POST, MID, and PRE) for STORE MODE trigger position.
- H** Calls up the SETUP menu (SAVE, RECALL, ERASE, and ERASE ALL). Memory holds up to four front-panel setups for later recall. ERASE ALL erases all setups in memory.



- 1** Clears menus and stored waveform displays.
- 2** Selects CH 1 to respond to control changes. Calls up the CH 1 CPLG menu (DC, AC, GND, CH 1 OFF) on the second press.
- 3** Same as the CH 1 button but for CH 2.
- 4** Selects Trigger SLOPE (+ or -).
- 5** Outer knob sets VOLTS/DIV on selected channel. Inner knob positions active channel vertically and is the VAR knob when held in and rotated.
- 6** Calls up the TRIG MODE menu (NORM, AUTOLVL, AUTOBL, SSEQ).
- 7** Calls up the trigger SOURCE menu (VERT, CH1, CH2, EXT).
- 8** Outer knob sets SEC/DIV (20 s to 50 ns). Inner knob positions waveforms horizontally and toggles X10 MAG when pressed.
- 9** TRIG'D indicator; when lit, waveform is triggered.
- 10** Autoranges on the active channel signal(s) when pressed. Sets VOLTS/DIV, SEC/DIV, vertical position, and trigger slope, mode, and source.
- 11** Outer knob sets Trigger LEVEL. Inner button autolevels on the trigger signal when pressed.
- 12** Toggles oscilloscope power. When using battery power, the 224 shuts down automatically after two minutes of idle time.
- 13** Select from displayed menus. The fourth button is also the INIT button for SSEQ trigger mode.

**NOTE:** Menu call-up buttons also scroll through the menu selections when pressed repeatedly.

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## SELECTING THE ACTIVE CHANNEL

- Press **CH 1** or **CH 2** to activate a channel. The VOLTS/DIV readout of the active channel is boxed. A second press selects the input coupling menu for that channel.

## SELECTING TRIGGER POSITION

- In store mode, press **TRIG POS**.
  - Select POST, MID, or PRE.
- The instrument displays a "+" on the trigger channel to indicate the trigger level and position.

## SELECTING ACQUISITION MODE

- Press **ACQ**.
  - Select NORM, ENV, AVG, or CONT ENV acquisition mode.
- ENV acquisition mode displays signal peaks between samples and is functional at SEC/DIV settings from 20 s to 20 ms. CONT ENV performs the ENV function over successive acquisitions until you press **INIT**. AVG mode gives a moving average of the last four acquisitions.

## SELECTING TV TRIGGER MODE

- Press **AUX FUNCT**; select EXT TV TRIG.
  - Press **SOURCE**; select EXT.
- For a stable display, apply an NTSC or PAL standard video signal to both the external trigger and probe tip inputs.

## SAVING A WAVEFORM TO MEMORY

- Acquire the waveform you want to save.
  - Press **SAVE**. The most recent waveform(s) will be temporarily frozen on screen.
  - If both channels are displayed, choose one using the channel select buttons before saving the waveform.
  - Select the memory location (1, 2, 3, or 4) to which you wish to save the waveform.
- If both channels are displayed and you wish to save them both, select the remaining channel and save its waveform into one of the remaining memory locations.

## RECALLING A WAVEFORM FROM MEMORY

- Press **RCL**.
  - Select the memory location (1, 2, 3, or 4) from which you wish to recall a waveform.
- A beep sounds if you select an empty memory. A box around a menu choice indicates that the waveform is displayed.

## SAVING FRONT-PANEL SETUPS

- Set the controls to make your measurement.
  - Press **SETUP**.
  - Select **SAVE**.
  - Select the memory location (1, 2, 3, or 4) to which you wish to save the setup.
- A boxed memory location already contains stored data. Storing new data in that location will overwrite the old data.

## RECALLING AND ERASING FRONT-PANEL SETUPS

- Press **SETUP**.
  - Select **RECALL**.
  - Select the memory location (1, 2, 3, or 4) from which you wish to recall a setup.
- To clear a memory location, select **ERASE** when in the **SETUP** menu. Press **CLEAR** to remove the menu display.
  - To erase all four memory locations and exit the menu, select **ERASE ALL** when in the **SETUP** menu.

