



- SPLIT-SCREEN BISTABLE STORAGE
- DC-to-25 MHz BANDWIDTH
- EXTREMELY BURN RESISTANT CRT
- 5¼-INCH RACKMOUNT

The TEKTRONIX 7313 Storage Oscilloscope offers Split-Screen Bistable operation or conventional (nonstorage) operation. It has a stored writing speed of 5 div/ μ s. Stored traces can be viewed up to 4 hours on a display area of 8 x 10 div (0.98 cm/div). The 7313 CRT is extremely burn resistant and doesn't require any special operating precautions.

The split-screen storage CRT provides the convenience of storage and conventional displays on the same CRT at the same time. This capability is useful in many applications. For instance, the operator may wish to store a reference trace and then view the change in waveform characteristics as he varies circuit components. He does this easily by operating half of the display in a stored mode and the other half in a conventional mode. Thus, amplitude, duration, and other characteristics of waveforms displayed in a conventional mode can be adjusted precisely to the stored reference trace.

Note—All 7000-Series plug-ins with lighted push buttons do not light in the vertical or horizontal compartments.

VERTICAL SYSTEM

Channels—Two left-hand plug-in compartments; compatible with all 7000-Series plug-ins. Bandwidth determined by mainframe and plug-in unit, limited to 25 MHz.

Modes of Operation—LEFT, ALT, ADD, CHOP, RIGHT.

Chopped Mode—Repetition rate is approximately 1 MHz.

Delay Line—Permits viewing leading edge of waveform.

HORIZONTAL SYSTEM

Channels—One right-hand plug-in compartment; compatible with all 7000-Series plug-ins.

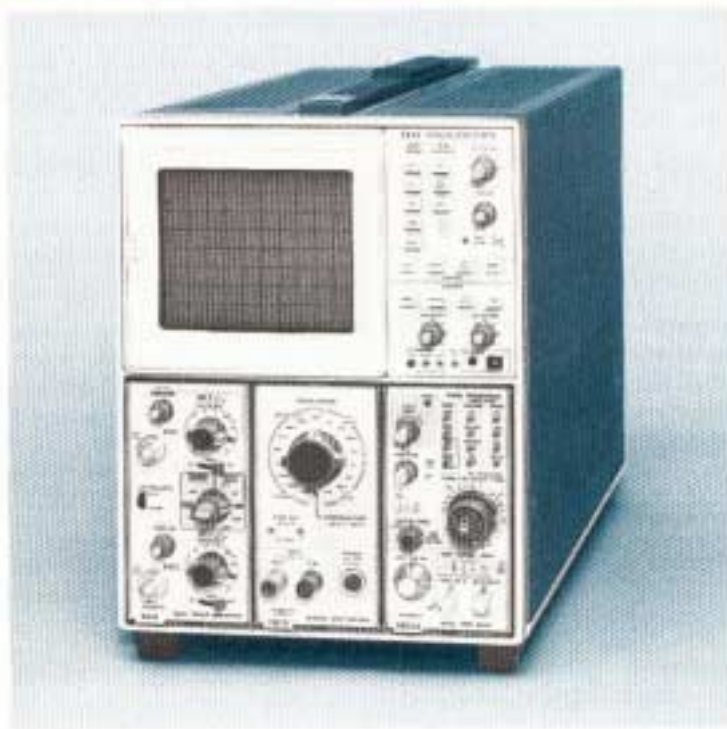
Fastest Calibrated Sweep Rate—20 ns/div.

X-Y Mode—The phase shift between vertical and horizontal channels is 2° from DC to 35 kHz. Bandwidth is DC to at least 2 MHz.

STORAGE CRT AND DISPLAY FEATURES

Bistable Split-Screen Storage CRT—Internal 8 x 10 div (0.98 cm/div) graticule with variable illumination. Store on either upper or lower half of screen with nonstore display on other half. Store on entire screen or nonstore on entire screen. Independent operation on both halves.

Accelerating Potential—4 kV.



Phosphor—P1.

Stored Writing Speed—Normal, 500 div/ms; adjustable to at least 5000 div/ms in Enhance Mode.

Storage View Time—Up to 4 hours.

Auto Erase View Time Range—0.5 or less to at least 10 s after end of sweep.

Erase Time—400 ms or less.

Enhance Mode—Controls single-sweep writing capabilities of the storage CRT. Up to 5000 cm/ms or better can be stored with minimal loss of resolution and contrast.

Integrate Mode—Provides additional writing speed for repetitive signals by allowing the storage target to integrate the written information over several signal repetitions.

Auto Erase Mode—Viewing time continuously variable up to 10 s. The sequence begins with the arrival of the signal. The signal initiates a sweep. After each sweep, the stored display is retained and further sweeps are locked out for the viewing interval selected by the VIEW TIME Control. Then, the display is erased and the time-base is enabled for the next sweep. This cycle will automatically repeat itself as long as a signal is available. The stored display may also be erased by the MANUAL control.

External Z-Axis Input—2 V P-P for full intensity range from DC to 2 MHz, intensity range diminishes to 20% of full range at 10 MHz. A positive signal blanks the trace. Maximum input voltage is 10 V (DC -|- Peak AC) and P-P AC.

Beam Finder—Limits display within graticule area.