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HANK
CROMBIE
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DUAL TRACE

WIDE BAND

BANDPASS FILTERS

KEYED CLAMP

SYNC CHANNEL



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TEKTRONIX, INC.
POUGHKEEPSIE, N. Y.



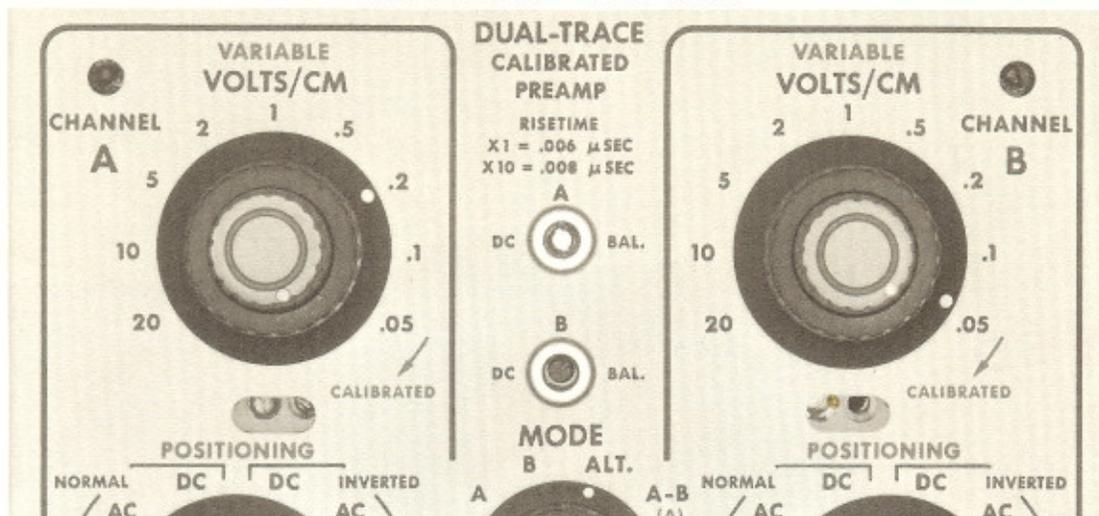
Type V
VIDEO
PLUG-IN UNIT

TYPE V VIDEO PLUG-IN

The Type V Video Plug-In Unit adapts Tektronix Type 530, 540, and 550-Series Oscilloscopes to meet the particular needs of the TV engineer.

Containing two input channels, plus a sync channel, the Type V permits quick and precise measurements of video signals.

DUAL TRACE — WIDE BAND



Single channel presentation (A or B).

Alternate trace (A and B).

Differential (A minus B).

6 nsec risetime (Type V Unit only) in AC or DC position.

8 nsec risetime (Type V Unit only) in AC X10 position.

Sine wave frequency response flat within 1% to 10 mc.

Input impedance of 1 megohm paralleled by 20 pf.

KEYED CLAMP AND BANDPASS FILTER

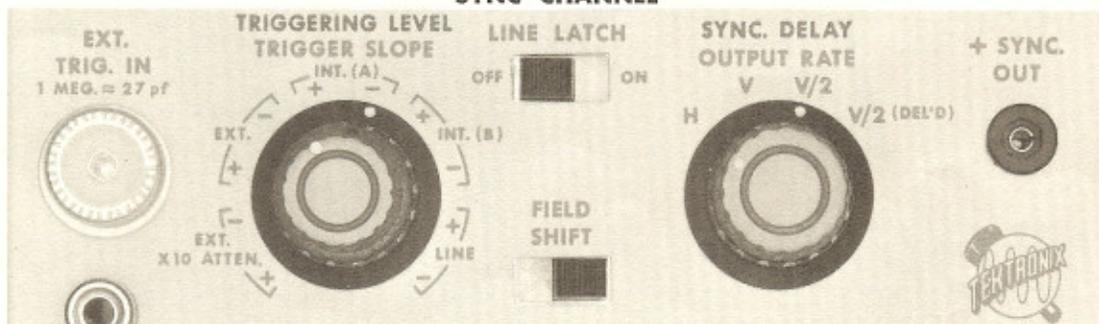


Keyed line-by-line backporch clamp.

Switch-selected filters for IRE, Hi-Pass, Flat, or

Normal (optimum transient) bandpass characteristics.

SYNC CHANNEL



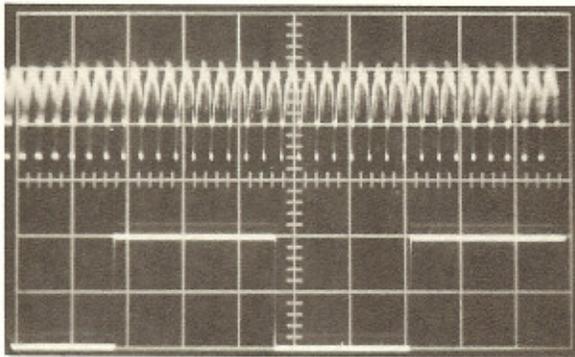
Sync for triggering the sweep separated from 50 mv of composite video signal.

Sync available from Channel \pm A, Channel \pm B,

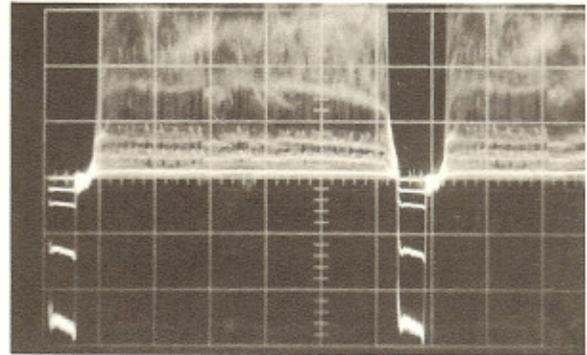
\pm External or \pm Line (power).

Output rates of H, V, V/2, or V/2 (delayed).

Typical video waveform displays showing the capabilities of the Type V Video Plug-In Unit in a Tektronix Type 533 Oscilloscope. Photographs were taken with a Tektronix Type C-12 Camera. Film was Polaroid* 44.
 *Registered trademark of the Polaroid Corp.



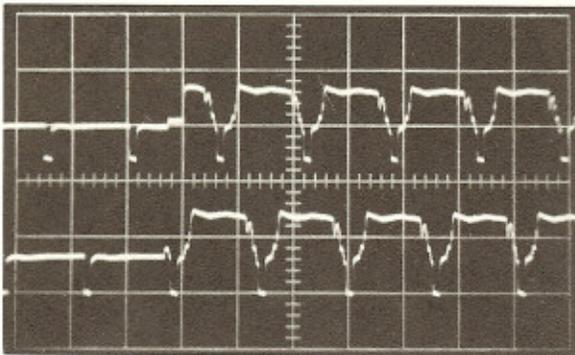
Top: Video signal. Bottom: 1 v calibrator signal.
 Sweep speed 200 μ sec/cm.



Sweep speed 50 μ sec/cm. Vertical sensitivity 0.5 v/cm.

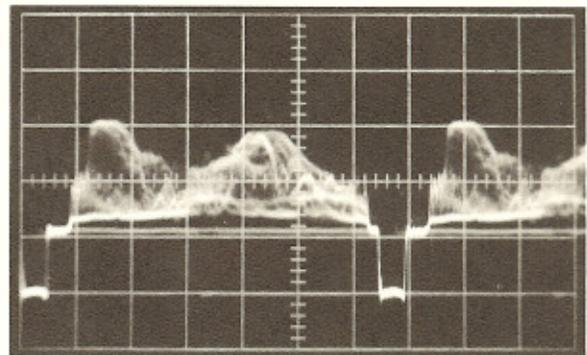
Display shows dual-trace capabilities of the Type V unit. Both channels have a bandwidth of 15 mc (3 db) in the Normal filter position. In the Flat position the response is flat within 1% to 10 mc.

Keyed line-by-line clamp. Video signals of 3 volts to 50 mv are shown clamped to the backporch level. This feature allows easy set-up measurements. (multiple exposure)



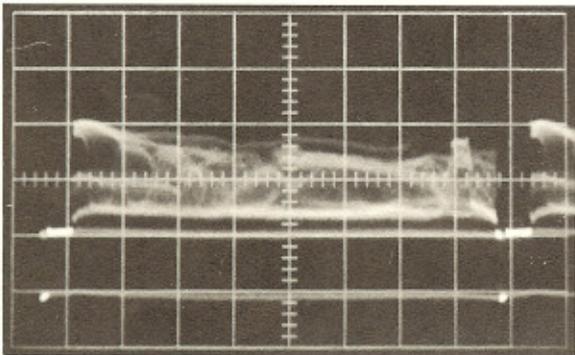
Vertical sensitivity 1 v/cm. Sweep speed 500 μ sec/cm.

Alternate mode display shows portion of two interlaced fields. Sweep triggered by "V" triggers. X10 horizontal magnifier was used.



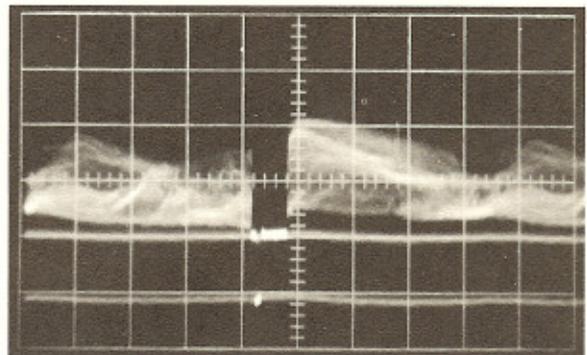
Vertical sensitivity 0.5 v/cm. Sweep speed 20 msec/cm.

Single channel display shows the solid triggering of the Tektronix Type 533 Oscilloscope with the Type V unit trigger pulses. Output Rate switch set at H position.



Vertical sensitivity 1 v/cm. Sweep speed 500 μ sec/cm.

Field-rate triggers allow display of one complete vertical field. Output Rate switch at V position.



Vertical sensitivity 0.5 v/cm. Sweep speed 20 msec/cm.

Illustrates the sync delay capabilities of the Type V unit. V/2 triggers initiate the oscilloscope sweep at a time, after the vertical group, which is determined by the position of the Sync Delay control.

