

## Trigger-unit UN1/703

This unit has been designed for use with Tektronix 7000-series oscilloscopes. It is constructed on a standard Tektronix plug-in chassis and is intended for use in the centre compartment of these oscilloscopes which is usually unfilled.

The video input-signal to the oscilloscope is plugged to an input-connector on the trigger-unit, and an output-connector on the unit is plugged to the normal input-connector of the oscilloscope; the latter connection is the only additional one necessitated by the use of the trigger-unit, which is automatically connected to the power-supply and triggering circuits of the oscilloscope when it is inserted into its working position.

The unit provides comprehensive triggering facilities for the oscilloscope from a standard-level video signal, which may contain "Sound-in-Syncs" pulses. Triggering is available at field rate for odd-field, even-field or both-fields working, and at line rate with or without a delay which is variable for 5 $\mu$ s to 70 $\mu$ s by means of a multiturn potentiometer. This latter facility enables the signal to be examined in detail. Individual raster-lines can be displayed both with or without the line delay, and are selected by means of a trio of push-button-operated decade-switches which incorporate a numerical indication of the line selected. Additionally, often-needed corresponding pairs of lines in the field blanking-period can be selected at individual switch-settings, as follows:-

- 16,329 (Source-identification and communication)
- 17,330
- 18,331
- 19,332 (Colour pulse-and-bar and "staircase" insertion  
test-signal)
- 20,333 (Subcarrier "bursts" insertion test-signal)
- 21,334
- ) (100% Colour-bars)
- 22,335)

The output video signal from the unit is clamped to produce a steady display on the oscilloscope and to facilitate measurements of the I.T.S. waveform when the picture content of the video signal is varying.

For further information, please contact J.E. Holder, Room 112, Western House, (PABX B.H. 4741).