

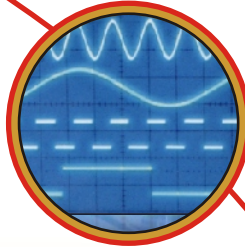
# ST251

## 25 MHz 2 Channel 4 Trace Oscilloscope with Component & Continuity Tester

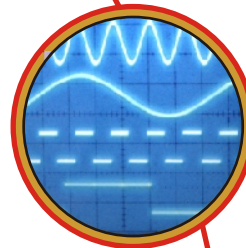
*The Scope with a mega view!*

**25MHz  
Bandwidth**

25 MHz bandwidth  
and you can actually view  
signals up to 50 MHz



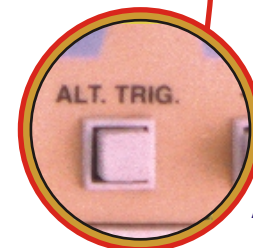
View original & expanded  
signals simultaneously  
for better signal analysis



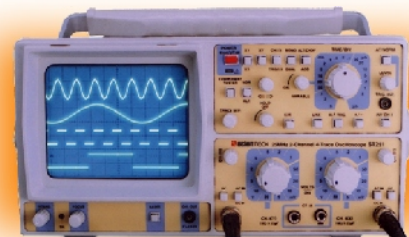
Graticule Illumination  
for better viewing of  
signal even in low light  
conditions

### Unique Features

- ★ 25 MHz Bandwidth
- ★ 2Channel - 4 Trace display
- ★ Component & Continuity Tester
- ★ Sharp Trace CRT & Auto Focus
- ★ Stable Triggering upto 50MHz
- ★ Trigger sensitivity 0.5 div
- ★ Variable Hold off & Line Triggering
- ★ Horizontal Amplifier - Bandwidth 2.5 MHz
- ★ Maximum Input Voltage : 400 V (DC + Peak AC)
- ★ Mains Voltage - 220-240 V  $\pm$  10% 50Hz
- ★ Sawtooth output & Z-Modulation



Alternate Trigger for  
simultaneous viewing  
of Complex signals



# ST251

## 25 MHz - 2 Channel, 4 Trace Oscilloscope with Component and Continuity Tester



Scientech ST251, is the ideal scope for just about any purpose. 25 MHz Standard Bandwidth and Four Trace display alongwith many unique features makes ST251 an ideal choice for professionals and students. Rugged yet light weight, it has sharp and bright trace with internal graticule CRT. The 25 MHz bandwidth is adequate for most needs and since you can actually view signals up to 50 MHz, its a real cost savings over a 50 MHz scope! The 4-trace feature let's you view original & expanded signals simultaneously for quick signal analysis. Built-in Component Tester & Continuity Tester help in component level testing. The alternate triggering ensures that both the channels are having stable waveform even when the input signal of channel 1 and channel 2 are different. An external triggering signal and Z-axis modulation signal can also be applied and Graticule Illumination is provided for better viewing of signal even in low light conditions.

### Technical Specifications

#### Operating Modes

Channel I, Channel II, Channel I & II  
Alternate or chopped (approx. 120 KHz), Add/ Sub CH I CHII, X-Y  
Operation ratio 1:1 ( Input via CH II),  
Invert CH II.

#### Vertical deflection (Both channels)

**Bandwidth :** DC-25 MHz(-3dB)

**Risetime :** 14 ns (approx.)

#### Deflection coefficients :

12 calibrated steps 5mV/div - 20V/div  
(1-2-5 sequence)

**Accuracy :**  $\pm 3\%$

**Hold-Off :** Variable Control for stable triggering

**Input Impedance :** 1 M  $\parallel$  25 pF  
(approx.)

**Input coupling :** DC-AC-GND

#### Input voltage :

Max. 400 V (DC + Peak AC)

#### Timebase :

**Time coefficients :** 18 calibrated steps,  
0.5 s/div-0.2 s/div (1-2-5 sequence)  
with magnifier x 5 to 100ns/div, with  
variable control to 40 ns/div

With ALT /NOR switch magnified  
sweep and normal sweep can be seen  
simultaneously.

**Accuracy :**  $\pm 3\%$  (in cal position)

**Ramp output :** 5 V<sub>pp</sub> (approx.)

#### Trigger System :

**Modes :** Auto / Level

**Source :** CH I or CH II, ALT, CH I &  
CHII, Ext., Line

**Slope :** Positive or Negative

**Coupling :** AC, Line Trigger

**Sensitivity :** Int 0.5 div., Ext 0.8 V  
(approx.)

**Trigger Bandwidth :** 50 MHz

#### Horizontal Deflection (x) :

**Bandwidth :** DC-2.5 MHz (-3 dB)

**X-Y mode :** Phase Shift  $< 3^\circ$  at 60  
KHz

**Deflection coefficients :** 12 calibrated  
steps 5mV/div-20 V/div (1-2-5  
sequence)

**Input Impedance :** 1 M  $\parallel$  25 pF.  
(approx.)

#### Component Tester

**Test Voltage :** Max 8.6 V<sub>rms</sub> (Open)

**Test Current :** Max 8 mA<sub>rms</sub> (Shorted)

**Test Frequency :** 50Hz, Test circuit  
grounded to chassis

#### Continuity Tester :

Beeper sounds  $< 75$  approx.

#### General Information

**Cathode Ray Tube :** 140 mm  
rectangular tube with internal  
graticule, P31 Phosphor

**Accelerating potential :** 2000 V  
(approx.)

**Graticule Illumination :** On/Off  
switch

**Display :** 8 x 10 div (1div =1cm)

**Trace rotation :** Adjustable on front  
panel

**Calibrator :** Squarewave generator  
1 KHz(approx.) 0.2 V $\pm$  1% for probe  
compensation.

**Z Modulation :** TTL level

**Stabilised Power Supply :** All  
operating voltages including theEHT .

**Mains voltage :** 220 V-240V  $\pm$ 10%  
50 Hz. (Switch at back)

**Power Consumption :** 33 VA  
(Approx.)

**Weight (approx) :** 7.5 Kg.

**Dimensions (mm) :** W285-H145-D380

**Operating Condition:** 0-40 $^\circ$ , 95% RH

**Finish :** Off white with handle and tilt  
stand.

#### Included Accessories:

- |                          |        |
|--------------------------|--------|
| 1. Manual                | 1 No.  |
| 2. BNC-Test Prod         | 1 No.  |
| 3. BNC - Crocodile Cable | 1 No.  |
| 4. Test Prods            | 1 pair |

Subject to change

### Test Patterns (Component Tester)

Capacitor 33 F Transistor E-C Transistor B-E BE 1 F + 68



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