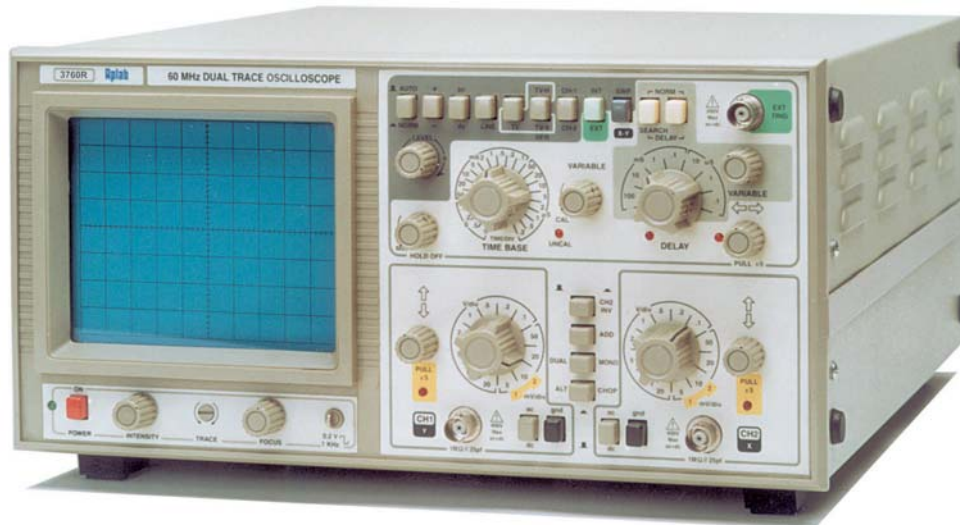


60MHz Dual Trace Oscilloscope with Sweep Delay



Features

- ★ DC - 60MHz Bandwidth
- ★ 1mV/div Sensitivity on Both Channels
- ★ Algebraic Addition and Subtraction
- ★ X-Y Operation
- ★ 10ns/div to 0.5s/div Calibrated Time Base
- ★ 140mm rectangular CRT with Internal Graticule
- ★ Triggering to 70MHz
- ★ Z Modulation
- ★ 8 x 10 cm. Display
- ★ TV Triggering Frame (V) & Line (H)
- ★ LINE Trigger
- ★ Variable Hold off
- ★ 12KV PDA
- ★ Sweep Delay 0.1 μ s/div to 0.1s/div
- ★ Component Tester
- ★ Continuity Tester with Beeper

Specifications

VERTICAL DEFLECTION

Deflection	: 1mV/div to 20V/div.
Coefficient (CH1 & CH2)	: 5mV/div to 20V/div in 12 calibrated steps in 1-2-5 sequence. x5 Magnification increases the sensitivity to 1mV/div & 2mV/div (LED indicated).
Accuracy	: $\pm 3\%$.
Bandwidth	: DC-60MHz (-3dB), dc coupled. 10Hz-60MHz (-3dB), ac coupled. DC-20MHz on 1mV/div & 2mV/div.
Rise Time	: 5.8nsec or less & 17.5nsec.
Display Modes	: CH1 only, CH1 & CH2 Alternate or Chop mode, Algebraic addition CH1 + CH2, Algebraic subtraction CH1-CH2, CH2 invert & X-Y.
Input Impedance	: 1M Ω & 15pF (approx).
Maximum Input Voltage(CH1 & CH2)	: 400 Volts (dc + peak ac).

Internal Trigger Signal : CH1 or CH2.

TIME BASE

Sweep Display Mode	: Main, Search, Delay.
Sweep Speed	: Main Sweep 0.1 μ s/div to 0.5s/div in 1-2-5 sequence in 21 steps.
Sweep Magnifier	: x10 for Main Time base extends sweep upto 10ns/div.
Accuracy	: $\pm 5\%$.
Variable	: 2.5 : 1 Uncalibrated continuously variable (upto 4ns approx.).
Hold-off Time	: 5 : 1 Continuously.
Sweep Delay	: 7 decade steps : 100ns to 0.1s with variable fine control (approx 10:1) extends the sweep delay to 1 sec. MODES : Search & Delay with LED indication.

TRIGGER SYSTEM

Triggering Mode	: Automatic or Normal with Level Control.
Source	: CH1 / CH2 / LINE / EXT.
Slope	: Positive or Negative.
Coupling	: ac / dc / HF reject or TV Frame / TV Line.
Trigger Sensitivity	:
Internal	: Auto 0.5 div 30Hz - 10MHz 0.5 div 10MHz - 60MHz Norm 0.5 div 3Hz - 10MHz 0.5 div 10MHz - 60MHz
External	: Auto 0.5V p-p 30Hz - 10MHz 0.5V p-p 10MHz - 60MHz Norm 0.5V p-p 3Hz - 10MHz 0.5V p-p 10MHz - 60MHz (Typical 70MHz at 2 div).

HORIZONTAL DEFLECTION

Deflection	: Same as CH2.
Coefficient	
Bandwidth	: DC - 3MHz (-3dB).
Input Impedance	: 1M Ω and 15pF (approx.).

COMPONENT TESTER (Optional)

Component Tester allows V.I. characteristics of a Device Under Test (D.U.T.).

Test Voltage	: 9V rms (No Load).
Test Current	: 2mA when shorted.

CONTINUITY TESTER (Optional)

Beeper sounds for continuity for resistance <75 ohms approx.

GENERAL INFORMATION

Cathode Ray Tube	: 140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor PDA 12KV.
Trace Rotation	: Front Panel control, allows $\pm 5^\circ$ of trace adjustment.
Z-Modulation	: 30V p-p signal upto 1MHz modulates at normal intensity.
Calibrator	: Provides 0.2V $\pm 2\%$, 1KHz square-wave output for probe compensation.
Power Requirement	: 230V AC $\pm 10\%$, 47-65Hz, 40VA.
Dimensions	: 165 (H) x 320 (W) x 420 (D) mm (approx.).
Weight	: 8.0 Kgs. approx.
Accessories	: Standard : Instruction Manual, 2 Input BNC leads. Optional : High impedance switch probe with x1 or x10 Attenuation (Model 307), Trolley.
Environmental Specifications	: Normal : 10°C to 40°C RH 85%. Operational : 0°C to 50°C RH 85%.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

Aplab Test & Measurement Instruments

APLAB LIMITED

APLAB HOUSE, A-5, WAGLE ESTATE, THANE 400 604. INDIA. TEL : 25821861 FAX : 91-022-2582 3137
EMAIL : tmsales@aplab.com WEBSITE : www.aplab.com

- **BANGALORE** Tel. : 080-23576001 to 07 Fax : 23576008 E-mail : aplabblr@aplab.com
- **CHENNAI** Tel. : 044-26680472, 26680477 Fax : 26680473 Email : aplabchn@aplab.com
- **KOLKATA** Tel. : 033-22455435, 22848834 Fax : 22454294 Email : aplabcal@aplab.com
- **MUMBAI** Tel. : 022-29201787, 29204642, 29203468 Fax : 29209066 Email : aplabwr@aplab.com
- **NEW DELHI** Tel. : 011-23515183/86, 23627467 Fax : 23634709 Email : aplabnd@aplab.com
- **SECUNDERABAD** Tel. : 040-27811012, 27843351, 27720339 Fax : 27897788 Email : aplabsec@aplab.com