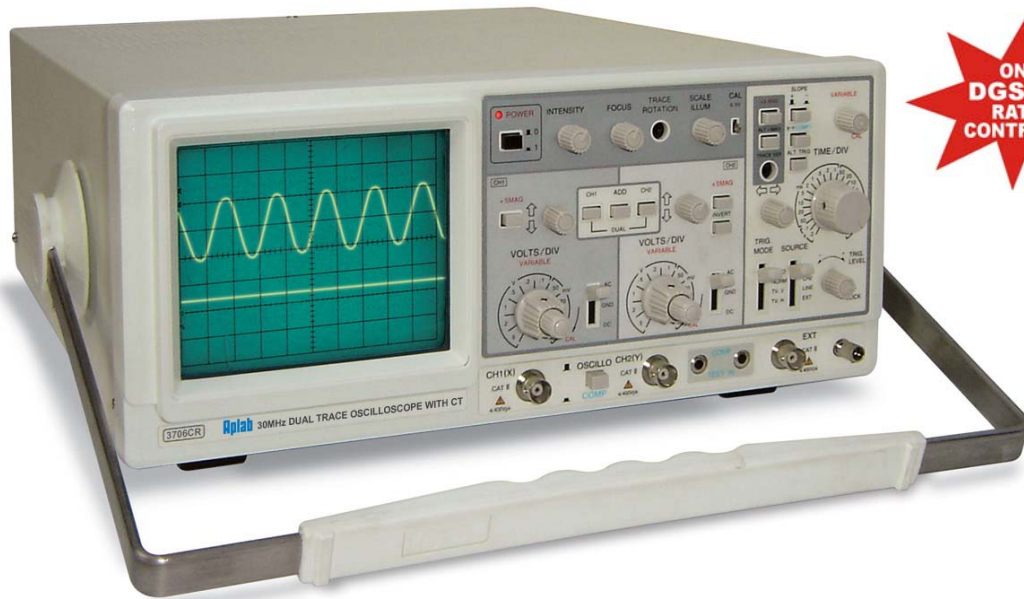


30MHz 2 CHANNEL 4 TRACE OSCILLOSCOPE



Features

- ★ Elegant
- ★ DC to 30MHz Bandwidth
- ★ 1mV/div Sensitivity on Both Channels
- ★ CH1 & CH2 Independent Channels
- ★ CH1 Signal Output
- ★ Algebraic Addition and Subtraction
- ★ X-Y Operation
- ★ 20ns/div to 0.2s/div Time Base
- ★ ALT MAG. Trace - Max. 4 Traces
- ★ Scale Illumination
- ★ Z Modulation
- ★ 8 x 10 cm Display Internal Graticule
- ★ Auto Focus
- ★ TV Triggering Frame (V) & Line (H)
- ★ Line Trigger
- ★ ALT Triggering
- ★ C.T. Facility
- ★ Continuity Tester with Beeper

Specifications

VERTICAL DEFLECTION (Y)

Deflection Coefficient (CH1 & CH2)	: 1mV/div to 10V/div. 5mV/div to 10V/div in 11 calibrated steps in 1-2-5 sequence. x5 Magnification increases the sensitivity to 1mV/div to 2V/div.
Accuracy	: x1 : $\pm 3\%$, x5 : $\pm 5\%$.
Variable	: 1 / 2.5 times uncalibrated continuously variable control extends the Deflection Coefficient to more than 25V/div.
Bandwidth	: x1 : DC to 30MHz (-3dB), dc coupled. : 10Hz to 30MHz (-3dB), ac coupled. : x5 : DC to 7MHz (dc coupled) 10Hz to 7MHz (ac coupled).

Rise Time	: 11.6ns or less.
Display Modes	: CH1, CH2, DUAL (CH1, CH2 ALT/CHOP), Algebraic ADD and SUBTRACT, CH2 INVT & X-Y (CH1 as X, CH2 as Y).
Input Impedance	: 1M ohms // 25pF approx.
Maximum Input Voltage	: 400 Volts (dc + peak ac).
Internal Trigger Signal	: CH1, CH2 or Alternate.
CH1 SIG OUT	
Output Voltage	: Minimum 20mV for 1 div of CH1 input signal.
Output Impedance	: 50 ohms (approx.).
Bandwidth	: 50Hz to 5MHz.

TIME BASE

Sweep Speed	: 20 Calibrated steps. 0.1 μ s/div to 0.2s/div in 1, 2 & 5 sequence.
Sweep Magnifier	: x5 Magnification increases the fastest sweep upto 20ns/div.
Accuracy	: \pm 3%.
Variable	: Uncalibrated continuously variable control between steps, extends slowest sweep speed to 0.5s/div (approx.).
ALT MAG Trace	: x5 magnified sweep is displayed along with normal sweep.

TRIGGER SYSTEM

Triggering Mode	: AUTO, NORM, TV-V, TV-H.
Source	: INT (CH1 or CH2) / CH2 / LINE / EXT.
Slope	: Positive or Negative.
Coupling	: AC coupling.
Trigger Sensitivity	
Internal	: Auto : 0.5 div - 20Hz to 30MHz. Normal : 0.5 div - 10Hz to 30MHz. Lock : 2.0 div - 50Hz to 20MHz. Alt : \geq 3div - 50Hz to 30MHz.
External	: Auto : 0.3V p-p - 20Hz to 30MHz. Normal : 0.3V p-p - 10Hz to 30MHz. Lock : 0.3V - 50Hz to 20MHz.
Typical	: 40MHz.

HORIZONTAL DEFLECTION

Deflection Coefficient	: Same as CH1.
Bandwidth	: DC - 3MHz (-3dB).
Input Impedance	: 1M ohms // 25pF approx.
Phase Difference	: \leq 3 $^{\circ}$ (DC - 100KHz).

COMPONENT TESTER

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 (Rear Panel)

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. Accelerating potential : 2kV.
Z-Modulation	: \pm 5V p-p signal upto 2MHz modulates at normal intensity.
Calibrator	: Provides 0.5V \pm 2%, 1KHz \pm 2% square-wave output for probe compensation.
Power Requirement	: 220V AC \pm 10%, 50Hz \pm 5%, 35VA (max.).
Dimensions	: 140 (H) x 335 (W) x 375 (D) mm approx.
Weight	: 7.2 Kgs. approx.
Standard Accessories	: Instruction Manual, 2 High impedance switch probe with x1 or x10 attenuation, Mains Cord, CT Leads.
Environmental Specifications	: Operating conditions Normal : 10 $^{\circ}$ C to 35 $^{\circ}$ C, RH 45% to 85%. Operational : 0 $^{\circ}$ C to 40 $^{\circ}$ C, RH 35% to 90%.

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.

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