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Model 2020A
20 MHz Oscilloscope



- Bandwidth DC to 20 MHz
- Dual Channels
- High sensitivity 1mV/div
- Vertical deflection magnification x5
- CH2 polarity inversion
- Sweep magnification x10
- TV-V/TV-H sync. triggering
- Alternate triggering
- X-Y mode operation
- Z-Axis intensity modulation
- User friendly designed panel
- Easy to operate
- Reliable performance

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**Model 2020A - 20 MHz Oscilloscope****Specifications**[Products](#)[Distributors](#)[Company Profile](#)[Request Information](#)[Contact Us](#)**CRT:**

Type: 6-inch rectangular type, internal graticule, % scale

Effective area: 8x10 div. (1 div. = 10 mm)

Acceleration voltage: Approx. 2 kV.

INTEN and FOCUS: Front panel control

Trace rotation: Inclined display due to terrestrial magnetism is adjustable at the front panel

VERTICAL DEFLECTION:

Sensitivity & Accuracy: 5mV ~ 5V/DIV $\pm 3\%$, 1mV ~ 1 V/DIV $\pm 5\%$ (using x5MAG), 10 calibrated steps, selectable 1-2-5 sequence

Bandwidth (-3dB): DC (AC 10Hz) ~ 20MHz, DC (AC 10Hz) ~ 7MHz at x5 MAG

Rise time: Approx. 17.5ns (x5 MAG Approx. 50ns)

Input coupling: AC, GND, DC

Input impedance: Approx. 1M Ω // 25pF

Max. input voltage: 300 V (DC+AC peak) at 1 kHz

Vertical modes: CH1, CH2, DUAL (CHOP, ALT), ADD, CH2 INV.

CHOP frequency: Approx. 250KHz

CH1 signal output: 20m V/DIV or more (with 50-ohm terminated), 50Hz to at least 5MHz

HORIZONTAL DEFLECTION:

Sweep time: 0.2 μ S ~ 0.5S/DIV $\pm 3\%$, 20 steps selectable in 1-2-5 sequence.

Magnification: 10 times, 100ns~50mS/DIV $\pm 5\%$ (20ns and 50ns are uncalibrated)

Linearity: $\pm 3\%$, $\pm 5\%$ at x10 MAG (20ns and 50ns are uncalibrated)

TRIGGER:

Trigger modes: AUTO, NORM, TV-V, TV-H

Trigger source: CH1, CH2, LINE, EXT, TRIG-ALT.

TRIGGER (continued):

Trigger coupling: AC

Trigger slope: +, -

Sensitivity INT(EXT): 20Hz~2MHz : 0.5div (200mV), TRIG. ALT : 2 div 2~20MHz : 1.5div (800mV), TRIG. ALT : 3 div TV sync. : 1 div. (1V)

EXT triggering signal input: Input impedance : Approx. 1M Ω // 25pF. Maximum input voltage : 300V (DC+AC peak) at 1 kHz

X-Y OPERATION:

Input: X-axis: CH1 input signal; Y-axis: CH2 input signal

Bandwidth: X-axis: DC~500KHz (-3dB)

Phase difference: 3 degrees or less from DC to 50KHz

Z-AXIS:

Input impedance: Approx. 47k ohm.

Sensitivity: At least 5 Vp-p (Trace becomes brighter with negative input)

Frequency response: DC~2MHz

Max. input voltage: 30V (DC+AC peak)

CALIBRATION:

Output voltage: 2 Vp-p $\pm 2\%$ (square wave of 1kHz)

OTHER:

Power Supply: AC115 / 230V $\pm 15\%$ connector selectable, 50/60Hz

Power Consumption: max. 40VA, 35W

Size and Weight: 310W x 150H x 455D mm, Approx. 8kg (17.6 lbs)

Temperature: Operation range 0 $^{\circ}$ C-40 $^{\circ}$ C (32 $^{\circ}$ F-104 $^{\circ}$ F, 85% RH Rated range for use 10 $^{\circ}$ C- 35 $^{\circ}$ C (50 $^{\circ}$ F-95 $^{\circ}$ F), 85% RH

Accessories: (1) Detachable power cord, (2) Low capacitance probe (1:1, 1:10), (1) Instruction manual

Part Number: 105-2021