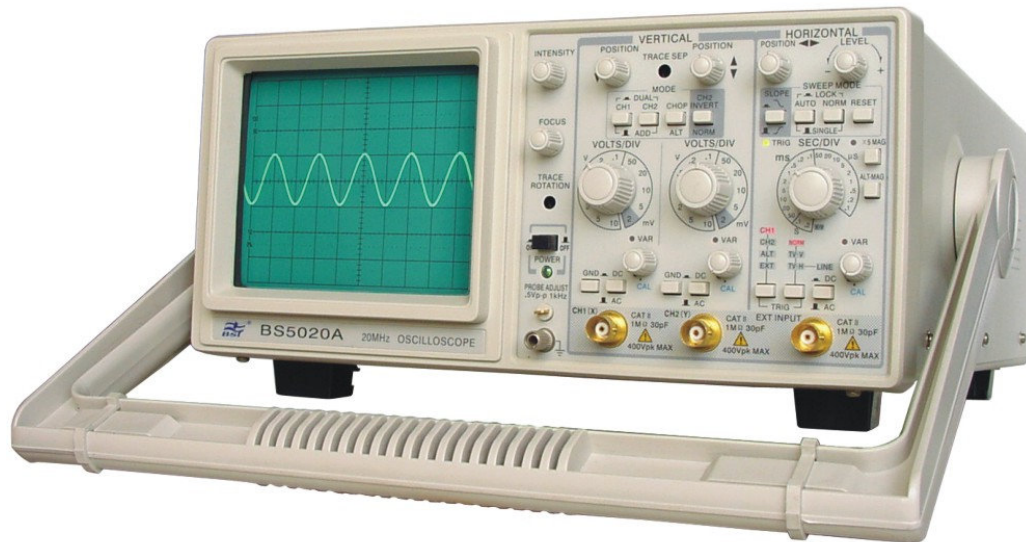


BS5020A**20MHz oscilloscope with SMT Technology****Feature:**

- SMT (Surface Mount Technology) to improve performance and reliability
- Electronic Switches to Enhance Product Stability
- 2 Channels, 4 Traces Operation
- LED Panel Indication
- Flexible Triggering Source Selection: Alt, Trig Alt Mag, Trig Lock, Single Trig.
- High Sensitivity up to 2mV/div
- Sweep Rate from 0.1uS/Div to 0.2S/Div
- Trigger Signal Output
- Z-axis Input
- 50Hz Sinusoidal Wave Output
- High Accurate Calibration Signal
- CE Approved, CATII 600V CE-EMC & LVD

Specifications

Vertical System

Sensitivity		5mV/DIV ~ 10V/DIV $\pm 3\%$, 1-2-5 step, 11 calibrated steps
Bandwidth(-3dB)	$\times 1$	DC: 0 ~ 20MHz AC: 10Hz ~ 20MHz
	$\times 5$ MAG	DC: 0 ~ 10MHz AC: 10Hz ~ 10MHz
Rise Time	$\times 1$	≤ 17.5 ns
	$\times 5$ MAG	≤ 35 ns
Overshot		$\leq 5\%$
Damp		$\leq 5\%$
Input Impedance		1M Ω $\pm 3\%$ // 30pF $\pm 5\%$ (direct), 10M Ω $\pm 5\%$ // 23pF (by probe)
Maximum Input Voltage		400V (DC + AC peak)
Operation Mode		CH1, CH2, ALT, CHOP, ADD, X-Y
Coupling Mode		AC, GND, DC
Slope Inverting		CH2 Only
Channel isolation		$\geq 35:1$ (DC-20MHz)
Common mode rejection ratio		$\geq 50:1$ (<100kHz)

Trigger System

		Frequency	INT	EXT
Trigger Sensitivity	NORM	5Hz – 20MHz	1 DIV	0.2Vp-p
	TV	5Hz – 20MHz	2 DIV	0.3Vp-p
	LOCK	20Hz – 10MHz	2 DIV	-
Ext. Trigger Input Impedance		1M Ω $\pm 5\%$ // 30pF ± 5 pF		
Ext. Trigger Maximum Input Voltage		400V (DC+AC peak)		
Trigger Sources		CH1,CH2,LINE ,ALT,EXT		
Trigger Mode		AC/DC(EXT), NORM/ TV-V, TV-H		

Horizontal System

Sweep Mode	AUTO, TRIG, LOCK, SINGLE
Sweep Time	0.1 μ s to 0.2s/DIV \pm 3%, in 20 calibrated steps (1-2-5seq)
MAG	$\times 5 \pm 5\%$
Alt. MAG Trace	Maximum 4 Traces
Variable	$\geq 2.5:1$

X-Y Mode

Sensitivity	Same as the vertical system
Signal Input	X-Axis: CH1 Y-Axis: CH2
Bandwidth (-3dB)	AC: 10Hz-1MHz DC: DC-1MHz
X-Y Phase Difference	$\leq 3^\circ$ (DC ~ 50kHz)

Z Axis System

Input Signal	TTL Level
Maximum Input Voltage	50V (DC + AC peak)
Band Width	DC ~ 5MHz
Input Impedance	10k Ω
Input Polarity	Low level to brighten

Calibration Signal

Waveform	Symmetric Square Wave
Amplitude	0.5V $\pm 2\%$
Frequency	1kHz $\pm 2\%$

Output

Trig Output	$\geq 50\text{mV/div}$ (50 Ω)
50Hz sin-wave Output	About 2Vp-p Power Sin-wave Signal



CRT

Display Area	8 × 10DIV 1DIV=10mm
Display Color	Green

Power Source

Voltage Range	220V ±10% or 110V ±10%
Frequency	50Hz ±5%
Power Consumption	About 35VA

Physical Features

Weight	6.5kgs
Dimensions	285mm × 130mm × 285mm

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