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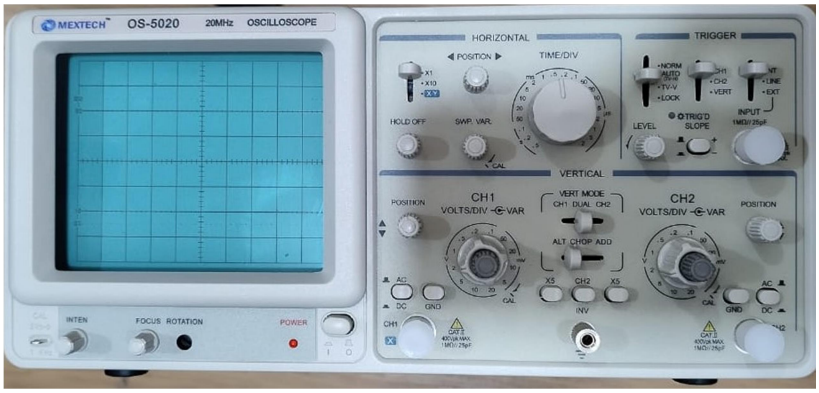
CE RoHS

# OSCILLOSCOPE 0S5020

**APPLICATION:** This 20MHZ OS 5020 Dual Trace Oscilloscope has been widely used in the fields of teaching, enterprises, scientific Research and medical Treatment.

## FEATURES:

- Power supply: AC 220V/50HZ
- Dimension: 310x145x440mm (W X H X D)
- Operating temperature: 0~40°C 85% RH
- Storage Temperature: -10~70°C
- Weight: About 8kgs
- Accessories: Instruction manual, 1m AC supply Power wire, 2ms probes.




## SPECIFICATION:

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|---|---|
| Sensitivity | 5mV-20V/DIV in 1-2-5 sequence, altogether 12 steps, CH1, CH2 to 1mV/DIV with x5 magnification. |
| Accuracy | X1: ≤±3%, x5MAG: ≤±5%, |
| Variable Ratio | ≥2.5:1 |
| Bandwidth(-3dB) | x1: DC(AC10Hz)~20MHz,<br>x5: DC(AC10Hz) )~7MHz, |
| Rising Time | x1: ≤17.5ns, x5: ≤50ns |
| Input Impedance | 1MΩ±5% // 25pF±5pF |
| DC Balance | 5mV-20V/DIV: ±0.5DIV |
| Linearity | The amplitude change would be within±0.1V when the waveform moves vertically in the middle of the Division. |
| Vertical Mode | CH1, CH2, ALT, CHOP, ADD(CH1+CH2, CH1-CH2) |
| Input Coupling | AC, GND, DC |
| Max. Input Voltage | 400V with the frequency ≤ 1kHz<br>Max. Effective readout would be 160Vp-p(56Vrms sine wave) when the probe is set as1:1.<br>Max. Effective readout would be 400Vp-p(140Vrms sine wave) when the probe is set as 10:1. |
| CH2 INV BAL | ≤1DIV |

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| Trigger Sources | INT, EXT, LINE |
| INT Trigger Source | CH1, CH2, VERT. |
| Trigger Modes | NORM, AUTO(TV-H), TV-V, LEVEL LOCK. |
| Coupling | AC: 5Hz to the whole frequency range |
| Polarity | +/- |
| Sensitivity | INT: 5Hz-10MHz ≤ 1DIV; 10MHz-20MHz ≤ 1.5 DIV; TV: ≤2DIV |
| | EXT: 5Hz-10MHz ≤ 200mVp-p; 10MHz-20MHz ≤ 300mVp-p |
| Input impedance with EXT | 1MΩ±5%//25pF±5pF |

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|---|---|
| trigger signals Max Input Voltage | 400V(DC+A Cpeak) AC frequency:≤1kHz |
| Sweep time | 0.5s-0.2us/DIV, in 1-2-5 sequence, altogether 20 steps |
| Accuracy | x1: ≤±3%; 10MAG; ≤±5%(20ns~50ns :±10%) |
| Variable Ratio | ≥2.5:1 |
| Linearity | x1:5%; x10MAG: 10%(20NS~50NS : 15%) |
| Movement by x10 MAG | <2DIV in CRT center |

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|---|---|---|
| **X-Y Mode** | Sensitivity | Same the vertical systems |
| | Frequency Bandwidth(-3dB) | DC: 0~500kHz; AC: 10Hz~500kHz |
| | X-Y Phase Difference | ≤3°(DC-50kHz) |
| **Calibration Signal** | Waveform | Square wave |
| | Frequency | Approx. 1kHz |
| | Output Voltage | 2Vp-p±2% |
| | Output Resistance | Approx. 1kΩ |
| **CRT** | Model | 15SJ118Y14 |
| | Color & Afterglow | Green, middle |
| | Effective Screen Area | 8 X 10DIV[1DIV=10mm(0.39in)] |
| | Scale | Internal |
| | Trace Rotation | Adjustable on Panel |