

FEATURES

- 100MHz bandwidth
- 1GS/s half channel*, 500MS/s each channel (half channel is when only one channel is turned on)
- Dual channel
- 2M points on each channel for the Record length
- Reading-out with the cursor
- 20 automatic measurement functions
- Auto-scale function
- High resolution, high contrast, colour LCD with adjustable backlight
- Storage and call-out of waveforms
- Automatic setting function provided capable of fast setting
- Multiple-waveform calculation function
- Built-in FFT function
- Implementation of detecting the average and peak values of the waveform
- Digital real-time oscilloscope
- Edge, video, alternate, pulse and slope triggering function
- RS232 or USB communication ports
- Different continuous displaying time
- Built in LOGIC ANALYSER with 16 input channels, 4M max storage for each channel, multiple trigger modes, convenient data measurement & data search, settings of all kinds of threshold levels
- Accessories: Passive probe: 2, 1.2 m, 1:1 (10:1), OL-16 LA measurement module, Software CD, USB Cable, Power Cable, User Manual



APPLICATIONS

- Electronic circuits debugging
- Circuit testing
- Designing & Manufacturing
- Education & Training
- Automobile maintenance & designing



*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATIONS

| DIGITAL STORAGE OSCILLOSCOPE | | |
|------------------------------|---|---|
| Bandwidth | 100MHz | |
| Channel | 2 + 1 (external) | |
| Acquisition | Mode | Normal, Peak detect, Averaging |
| | Sample Rate (real time) | 1GS/s half channel*, 500MS/s each channel |
| Input | Input Coupling | DC, AC, Ground |
| | Input Impedance | 1MΩ±2%, in parallel with 15pF±5pF |
| | Probe Attenuation Factor | 1X, 10X, 100X, 1000X |
| | Max. Input Voltage | 400V (PK-PK) (DC + AC PK-PK) |
| | Bandwidth Limit | 20MHz, 100MHz |
| | Channel Isolation | 50Hz:100:1 / 10MHz:40 :1 |
| | Time Delay between Channel (typical) | 150ps |
| Horizontal System | Sampling Rate Range | 1S/s~1G S/s each channel |
| | Interpolation | (sin x)/x |
| | Record Length | 2M points on each channel |
| | Scanning Speed (S/div) | 2ns/div~100s/div, step by 1~2~5 |
| | Sampling Rate / Relay Time Accuracy | ±100ppm |
| Vertical System | Interval (ΔT) Accuracy (DC~100MHz) | Single: ±(1 interval time + 100ppm × reading + 0.6ns); Average >16: ±(1 interval time + 100ppm×reading+0.4ns) |
| | A/D Converter | 8 bits resolution (2 Channels simultaneously) |
| | Sensitivity | 2mV/div~10V/div (at BNC) |
| | Displacement | ±1V(2mV - 100mV); ±10V(200mV - 1V); ±100V(2V - 10V) |
| | Analogue Bandwidth | 100Mhz |
| | Single Bandwidth | Full bandwidth |
| | Low Frequency | ≥10Hz (at input, AC coupling, -3dB) |
| | Rise Time | ≤3.5 ns (at input, Typical) |
| | DC Accuracy | ±3% |
| DC Accuracy (average) | Average > 16: ±(3% rdg + 0.05 div) for ΔV | |
| Measurement | Cursor | ΔV and ΔT between cursors |
| | Automatic | Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty |
| | Waveform Math | +, -, *, /, FFT |
| | Waveform Storage | 4 waveforms |
| | Lissajou's Figure | Bandwidth: Full Phase Difference: ±3 degrees |
| | Frequency (typical) | 1kHz square wave |
| Communication Port | USB2.0, USB for file storage; RS-232 or VGA port (optional) | |

* Half channel is when only one input channel is available.



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TECHNICAL SPECIFICATIONS

| | | |
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| TRIGGER | | |
| Trigger Level Range | Internal | ±6 div from the screen center |
| | EXT | ±600mV |
| | EXT/5 | ±3V |
| Trigger Level Accuracy (typical) | Internal | ±0.3div |
| | EXT | ±(40mV + 6% of Set Value) |
| | EXT/5 | ±(200mV + 6% of Set Value) |
| Trigger Displacement | Pre-trigger: 655 div, Post-trigger: 4 div | |
| Trigger Holdoff Range | 100ns~10s | |
| 50% Level Setting (typical) | Input signal frequency ≥50Hz | |
| Edge Trigger | Slope | Rising, Falling |
| | Sensitivity | 0.3div |
| Pulse Trigger | Trigger Condition | Positive pulse: <, >, = Negative pulse: <, >, = |
| | Pulse Width Range | 24ns~10s |
| Video Trigger | Modulation | Support standard NTSC、PAL and SECAM broadcast systems |
| | Line Number Range | 1-525 (NTSC) and 1-625 (PAL/SECAM) |
| Slope Trigger | Trigger Condition | Positive pulse: <, >, = Negative pulse: <, >, = |
| | Time Setting | 24ns~10s |
| Alternate Trigger | Trigger on CH 1 | Edge, Pulse, Video, Slope |
| | Trigger on CH 2 | Edge, Pulse, Video, Slope |
| Display | 8" Coloured LCD (Liquid Crystal Display), 640x480 px, full colour TFT | |
| Power | Mains Voltage 100~240 VAC RMS, 50/60Hz, CAT II | |
| Fuse | 2A, T grade, 250V | |
| Operating Environment | 0° to 40°C, less than 90%RH | |
| Storage Environment | -20° to 60°C, less than 90%RH | |
| Dimensions | 370mm× 180mm×120mm | |
| Weight | 2.2kgs | |
| Calibration | One year is recommended for the calibration interval period | |
| LOGIC ANALYSER | | |
| Sample Rate | 20 S/s ~ 1GS/s | |
| Input Channel | 16 | |
| Max. Storage | 4M/Channel, 16K(when only sampling rate is 250MS/s, 500 MS/s, 1GS/s) | |
| Measurement Bandwidth | 100MHz | |
| Input impedance | 660KΩ ±5%// 15±5pF | |
| Threshold level | -6V~6V | |
| Input Signal Range | -30V~30V | |
| Trigger Position Setting | Pre-trigger, mid-trigger, re-trigger | |
| Trigger Mode | Edge trigger, Bus trigger, Pattern trigger, Sequential queue data ,Distributed queue trigger, Data width queue trigger | |
| Data Search | Support | |
| Data System | Binary system, Decimal system, Hex | |
| Digital Filter | 0/1/2 optional | |
| Setting Storage | Support | |
| USB Storage | Support | |