100/70 MHz DIGITAL STORAGE OSCILLOSCOPE

DSO-5100/5070

FEATURES

- 100/70 MHz : 2 Channel models ;
  100/70 MHz : 2 Channel models
- 1GSa/s Maximum Sampling Rate
- 10M Maximum Memory Depth For Each Channel
- 7" 800 x 480 WVGA LCD Display
- 65536 Color , TET Screen
- 1Mpts FFT Frequency Domain Signal Display
- I^2C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- Zero Key Function For Horizontal Time, Vertical Voltage and Triggering
- Compact and Innovative Exterior Design

| CE | USB | PC Software | Labview Driver | Ethernet | PictBridge Compatible |

APPLICATIONS

- Educational Market - General Purpose Instruction

- Industrial Sector - Fundamental R&D Measurement Applications

The series digital storage oscilloscopes equip with 100/70 MHz : 2 Channel models; 100/70 MHz : 2 Channel models, that provide entry level users with diversified selections. The maximum real time sampling rate can be up to 1GSa/s. The robust functional performance makes the economical oscilloscope more colorful and allows entry level users to sumptuously enjoy the fun and value brought by test and measurement which is precisely the emerging mission of the test and measurement industry that Megatek works relentlessly to achieve.

10M memory depth for each channel yields exquisite measurement results and allows each retrieved waveform to successfully reveal the details of signal. Engineers are often baffled by failing to retrieve signal details when measuring basic electric circuit signals. Now, DSO-5100 series oscilloscopes, with 10M memory depth for each channel, are capable to uncover all signal details.

7" 800 x 480 WVGA LCD display and the 65536 color gradient display function together allow the DSO-5100 Series to distinctly display waveform details in gradients while measuring fast changing analog signals. Additionally, 50,000wfms/s waveform update rate helps engineers clearly understand the gradients of signal variations and easily identify the problem of transient signal variations.

1Mpts FFT signal display makes the frequency domain display function more delicate. Engineers can clearly observe the distributed details of frequency domain signals. Smooth and rapid response can even better locate where the problems are originated. Powerful FFT function realizes high efficient spectrum analysis measurement which is indispensable for technology and education arenas.

The series provides serial bus analysis function with 10M long memory depth. Users can trigger, decode, and analyze frequently used I^2C, SPI and UART serial bus and CAN/LIN bus, which is often used by automotive communications.

The Series oscilloscopes provide the zero key function for vertical voltage scale adjustment, horizontal time scale adjustment and trigger level adjustment. When processing complicate waveform adjustment and observation, engineers often require the zero key function to start a new measurement, adjust waveform or reset trigger level. The zero key function can reduce time in turning control knobs that is a great benefit for engineers.

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DSO-5100/5070

		DSO-5100	DSO-5070
VERTICAL	Channels Bandwidth Calculated Rise Time BandWidth Limit	**2 + EXT** **DC -100 MHz-(3db)** **3/5 nS** **12MHz**	**2 + EXT** **DC -100 MHz-(3db)** **5 nS** **12MHz**
	Vertical Sensitivity Resolution Input Coupling Input Impedance DC Gain Accoracy* Polarity Maximum Input Voltage	8 bit : 5 mV~div 5 V/div AC, DC, GND 1 MΩ//20pF approx. ±3% Normal & Invert 400Vrms, CAT I 400 V (DC + AC , PK - PK)	
TRIGGER	Trigger level range Trigger level Accuracy (typical) Trigger displacement Trigger Holdof range	Internal ±5 div from the screen center , EXT ± 1.6 V , EXT/5 ± 8 V Internal ±0.3 div , EXT ± (8 mV + 6% of Set Value) , EXT/5 ± (40 mV + 60% of Set Value) According to Record length and time base 100 ns - 10 s	
HORIZONTAL	Time base Range Pre-trigger Timebase Accuracy Real Time Sample Rate Record Length Acquisition Mode Peak Detection	2 ns/div ~1000 s/div (1-2-5 increments) 10 div maximum ±50 ppm over any ≥1 ms time interval 1GSa/s max. Max. Normal, Average, Peak Detect, Single 2nS (typical)	
CURSORS AND MEASUREMENT	Cursors Measurement	ΔV , ΔT , ΔT & ΔV between cursors , auto cursor Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width, -Pluse Width, +Duty Cycle, -Duty Cycle, Delay A→B ⅄ Delay A→B ⅂, Cycle RMS, Cursor RMS, Screen Duty, Phase +Pluse Count, -Pluse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area	
DISPLAY	TFT LCD Type Display Resolution Display Mode	7" TFT WVGA color display 800 horizontal × 480 vertical pixels (WVGA) YT , XY	
INTERFACE	USB Port Ethernet Port(LAN) Go-NoGo BNC Kensington Style Lock	USB 2.0 High-speed host port x1, USB High-speed 2.0 device port x1 RJ-45 connector, 10/100Mbps with HP Auto-MDIX (Only for 4 channel models.) 5V Max/10mA TTL open collector output Rear-panel security slot connects to standard kensington-style lock	
POWER SOURCE		AC 100V ~ 240V , 50Hz ~ 60Hz , Auto selection , Power consumption:15 Watts	
MISCELLANEOUS	Multi-Language Menu Operation Environment Online Help	Available Temperature : 0°C ~ 50°C. Relative Humidity ≤ 80% at 40°C or below; ≤ 45% at 41°C ~ 50°C Available	
DIMENSIONS& WEIGHT		143(W) × 158/5 (H) × 330/5 (D)mm, Approx. 1/77 Kg	

ORDERING INFORMATION

DSO-5100	100 MHz, 2 channels, Digital Storage Oscilloscope
DSO-5070	70 MHz, 2 channels, Digital Storage Oscilloscope

ACCESSORIES

User manual CD x 1, Power cord x 1,Software,prob*2

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