



VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY

"For more than 25 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success."

DSO-4062A / 60 MHz DIGITAL STORAGE OSCILLOSCOPE

CE VERSION 06/09

Nº 12 24 34

The high-quality DSO-4000 series digital oscilloscopes from Voltcraft have a wide range of features at unbelievable prices. All models include a high-quality 14.2 cm TFT colour display with a large viewing angle. Data transfer to a PC is via standard USB ports. Applicable software is included with the delivery, while Lab-View drivers can be downloaded free of charge. An integrated multilingual help menu makes operation easier. A wide range of trigger options, automatic measurement functions incl. FFT and a frequency counter make measuring a breeze. The high quality and extensive feature set makes this oscilloscope series a genuinely cost-effective alternative for laboratories, schools and technology.

HIGHLIGHTS

High sampling rate of 1GS/s //

Memory depth 1 Mpts per channel //

Cursor function: Delta-V, Delta-T //

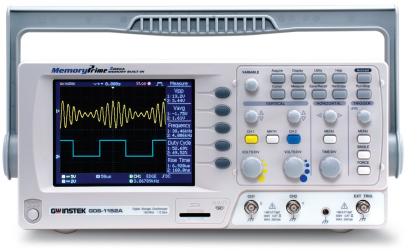
Signal peak detection 10 ns //

15 memory sets for device setting //

15 memory sets for waveform //

Additional math function X //

Additional SDHC card slot //



Additional automatic measurement functions incl. FFT and FFT rms

Automatic measurement functions: Vpp, Vamp, Vavg, Vrms, Vhi, Vlo, Vmax, Vmin,

frequency, period, rise /fall time, positive/negative pulse duration, pulse-pause ratio

GENERAL SPECIFICATIONS

Display size: 14.2 cm (234 x 320 pixel, 8 x 10 DIV) Display: colour Resolution: 8 bits Base period: 1 ns/DIV - 10 s/DIV Vertical deflexion: 2 mV/DIV - 5 V/DIV Accuracy: \pm 3 % Input impedance: 1 M Ω ~16 pF Triggering: Auto/Normal/Single/TV/Edge Input coupling: AC/DC/GND Input voltage: 300 V (DC/AC peak) CAT II Roll mode: 250 ms - 10 s/DIV Voltage supply: 100 - 240 V/AC Dim.: (W x H x D) 310 x 142 x 140 mm Can be calibrated according to: ISO / DKD

TECHNICAL DATA

	DC coupling: DC ~ 60MHz AC coupling: 10Hz ~ 60MHz
Bandwidth Limit	20MHz (-3dB)
Trigger Sensitivity	0.5div or 5mV (DC ~ 25MHz) 1.5div or 15mV (25MHz ~ 60MHz)
External Trigger	~ 50mV (DC ~ 25MHz)
Sensitivity	~100mV (25MHz ~ 60MHz)
Rise Time	< 5.8ns approx.

Vertical	Sensitivity	2mV/div ~ 10V/Div (1-2-5 increments)	Cursors and Measurement	Voltage	Vpp, Vamp, Vavg, Vrms, Vhi, Vlo, Vmax,
	Accuracy Bandwidth	± (3% x Readout +0.1div + 1mV)	WedSurement		Vmin, Rise Preshoot/ Overshoot, Fall Preshoot/ Overshoot
	Rise Time	See model-specific specifications See model-specific specifications		Time	
				Time	Freq, Period, Rise Time, Fall Time, +
	Input Coupling	AC, DC, Ground		D.I.	Width, – Width, Duty Cycle
	Input Impedance	1MΩ ±2%, ~15pF		Delay	FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF
	Polarity	Normal, Invert		Cursors	Voltage difference (ΔV) and
	Maximum Input	300V (DC+AC peak), CAT II			Time difference (Δ T) between cursors
	Math Operation	+, –, ×, FFT, FFT rms		Auto Counter	Resolution: 6 digits, Accuracy: ± 2%
	Offset Range	2mV/div~ 50mV/div: ± 0.4V			Signal source: All available trigger source
		100mV/div~ 500mV/div: ± 4V			except the Video trigger
		1V/div~ 5V/div: ± 40V	Control Panel	Autoset	Automatically adjust Vertical Volt/div,
		10V/div : ± 300V	Function		Horizontal Time/div, and Trigger level
Trigger	Sources	CH1, CH2, Line, EXT		Save/Recall	Up to 15 sets of measurement conditions
	Modes	Auto, Normal, Single, TV, Edge, Pulse			and waveforms
	Coupling	AC, DC, LF rej, HF rej, Noise rej	Display	LCD	14.2 cm, TFT, brightness adjustable
	Sensitivity	See model-specific specifications		Resolution (dots)	234 (Vertical) x 320 (Horizontal)
	Holdoff	40ns ~ 2.5s		Graticule	8 x 10 divisions
External	Range	DC: ± 15V, AC: ± 2V		Display Contrast	Adjustable
trigger	Sensitivity	See model-specific specifications	Interface	USB Slave	USB1.1 & 2.0 full speed compatible
	Input Impedance	1MΩ ± 2%, ~15pF		Connector	(printers and flash disk not supported)
	Maximum Input	300V (DC+AC peak), CATII		SD Card Slot	Image (BMP) and waveform data (CSV)
Horizontal	Range	1ns/div~ 50s/div, 1-2.5-5 increment Roll: 250ms/div – 50s/div	Probe Compensation	Frequency range	1kHz ~ 100kHz adjustable, 1kHz step
	Modes	Main, Window, Window Zoom, Roll, X-Y	Signal		
	Accuracy	± 0.01%		Duty cycle	5% ~ 95% adjustable, 5% step
	Pre-Trigger	10 div maximum		Amplitude	2Vpp ± 3%
	Post-Trigger	1000 div	Power Source	Line Voltage	100V~240V AC, 47Hz~63Hz
X-Y Mode	X-Axis Input	Channel 1	•	Power Consumption	18W, 40VA maximum
	Y-Axis Input	Channel 2		Fuse Rating	1A slow, 250V
	Phase Shift	± 3° at 100kHz	Operation	Ambient temperature	0 ~ 50°C
Signal	Real-Time	1G Sa/s maximum	Environment	Relative humidity ≤ 80% @35℃	
Acquisition	Equivalent	25G Sa/s maximum	Storage	Ambient temperature -10°C to 60°C	
	Vertical Resolution	8 bits	Environment	Relative humidity ≤ 80% @60°C 341.5(W) x 162.3 (H) x 159 (D) mm Approx. 2.5kg	
	Record Length	1M (2 channel), 2M(1 channel) points maximum	Dimensions Weight		
	Acquisition	Normal, Peak Detect, Average	- 2		
	Peak Detection	10ns (500ns/div ~ 50s/div)			
	Peak Detection				

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Lindenweg 15, D-92242 Hirschau/ Germany, Phone +49 180 586 582 7. The data sheet reflects the current technical specifications at time of print. We reserve the right to change the technical or physical specifications.