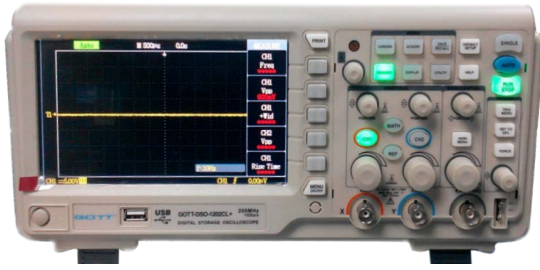


DIGITAL STORAGE OSCILLOSCOPE

Model Number : GOTT-DSO 1000 SERIES



FEATURES APPLICATION :

- 500MSa/s & 1GSa/s Sampling Rate
- 2 Channels
- 7" Widescreen LCD Color Display (ADS1022C: 5.7 in)
- USB Host/Device: Support USB Printer and USB Flash Drive
- PictBridge Function
- Easy scope Software
- 12 Languages
- Industrial Power Design, Troubleshooting, Installation, and Maintenance.
- Electronics Design, Troubleshooting, Installation, and Maintenance
- Circuit Design & Debug
- Educational Lab & Training Institutions
- Repair & Service
- Production Test & Quality Inspection

PRODUCT SPECIFICATIONS :

Model	1202CL+	1202CML	1152CML	1102CML	1062CML	1042CML	1022CL+
Bandwidth	200MHz		150MHz	100MHz	60MHz	40MHz	25MHz
Sampling Rate	500Msa/s	1Gsa/s					500Msa/s
Equivalent	50Gsa/s						10Gsa/s
Memory	5Kpts/CH		Single Channel:2Mpts;Double Channels:1Mpts				40Kpts
Rise Time	<1.8ns		<2.3ns	<3.5ns	<5.8ns	<8.8ns	<14ns
Input Impedance	1M Ohm 17Pf	1M Ohm 14Pf/500	1M Ohm 17Pf				
Sec/div Range	2.5ns/div-50s/div				5ns/div-50s/div	10ns/div-50s/div	2.5ns/div-50s/div
Display	Scan:100ms-50s/div 7"LCD Color(480*234)						

GENERAL SPECIFICATIONS :

DISPLAY	ENVIRONMENTS	
• Display Mode	Color TFT 7in diagonal Liquid Crystal Display	
• Resolution	480 horizontal by 234 vertical pixels	
• Display Color	64K color	
• Display Contrast	(Typical state) 150:1	
• Backlight Intensity	(Typical state) 300nit	
• Resolution	480 horizontal by 234 vertical pixels	
• Wave display range	8 x 18 div	
• Wave Display Mode	Point, Vector	
• Point Vector Off	1 sec, 2 sec, 5 sec, Infinite	
• Menu Display	2 sec, 5 sec, 10 sec, 20 sec, Infinite	
• Skin Succinct		
• Screen saver	1min, 2mins, 5mins, 10mins,15mins, 30mins, 1hour, 2hours,5hours,off	
• Waveform	Interpolation Sin(x)/x, Linear	
• Color model	Normal and Invert	
• Language	English, French, German, Russian, Spanish, Simplified Chinese, Traditional Chinese, Portuguese, Japanese, Korean, Italian, Arabic	
• Interface	USB Host, USB Device, RS232, Pass/Fail output	
	POWER SUPPLY	
	• Input Voltage	100-240 VAC, CAT II, Auto selection
	• Frequency Scope	45Hz to 440Hz
	• Power	50VA Max
	Mechanical	
	• Dimension	
	• L x W x H	399mm 110.5mm 148.5mm
	• Weight	2.4 kg

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GENERAL SPECIFICATIONS :	
VERTICAL SYSTEM <ul style="list-style-type: none"> Vertical Sensitivity 2mV-10V/div at input BNC (1-2-5 order) 2mV-5V/div (ADS1202CML / 1022C) Channel voltage offset range 2mV-200mV: ±1.6V , 206mV-10V: ±40V in Fixed Gain Ranges & Variable Gain Ranges Vertical Resolution 8 bit Channel 2 Analog Bandwidth (at input BNC) Bandwidth ADS1202CML - 200MHz , ADS1152CML - 150MHz ADS1102CML - 100MHz , ADS1062CML - 60MHz ADS1042CML - 40MHz , ADS1022CML - 25MHz BW Flatness DC-10% of rated BW ±1DB 10%-50% of rated BW ±2DB 50%-100% of rated BW ±3DB Lower frequency limit (AC - 3dB) 10Hz (at input BNC) Noise Pk-Pk for 3K record 0.6Div for average of 10Pk-Pk readings in fixed gain settings. <=0.7 Div for average of 10 Pk-Pk readings, Variable gain settings SFDR including harmonics 40dB DC Gain Accuracy : < ±3.0%: 5mV/div to 5V/div in Fixed Gain Ranges < ±4.0%:typical for 2mV/div&Variable Gain Ranges DC Measurement Accuracy: All Gain settings 100mV/div ±[3%X (reading + offset) +1% of offset +0.2div+2mV] Rise time, Typical (using 500ps pulse) Bandwidth ADS1202CML - <1.8ns , ADS1152CML - <2.3ns ADS1102CML - <3.5ns , ADS1062CML - <5.8ns ADS1042CML - <8.8ns , ADS1022C ML - <14ns Math operation +, -, *, FFT FFT Window mode Hanning, Hamming, Blackman, Rectangular Sampling points 1024 Bandwidth limiter 20MHz ±40% Typical 	HORIZONTAL SYSTEM <ul style="list-style-type: none"> Real Time Sampling Rate Single Channel 1GSa/s; Double Channels 1GSa/s (ADS1202CML) Single Channel 1GSa/s; Double Channels 500MSa/s (ADS1000CML Series) Single Channel 500MSa/s; Double Channels 250MSa/s (ADS1022C) Equivalent Sampling Rate 50GSa/s Measure Display Modes MAIN, WINDOW, WINDOW ZOOM, Scan, X-Y Time base Accuracy ±100ppm measured over 10ms interval Time Window 18 Divisions Horizontal Scan Range ADS1202CML ADS1152CML ADS1102CML ADS1062CML ADS1042CML ADS1022CML 2.5ns/div - 50s/div , 5 ns/div - 50s/div 10 ns/div - 50s/div , 25ns/div - 50s/div Scan: 100ms/div -50s/div (1-2.5-5 sequence) INPUT <ul style="list-style-type: none"> Input Coupling AC, DC, GND Input Impedance DC 1M_+/-2% 17pF +/-3pF AC 1.2M_+/-2% 17pF +/-3pF, <=100mV/div 1.0M_+/-2% 17pF +/-3pF, >100mV/div Maximum Input Voltage ±400V PK-PK CATI Ch to Ch Isolation (Both) Channels in same V/div setting) 100: 1 at 20MHz (ADS1042CML) 100: 1 at 100MHz (ADS1202CML), >100: 1 at 70MHz (ADS1152CML), 100: 1 at 50MHz (ADS1102CML), > 100: 1 at 30MHz (ADS1062CML) Probe attenuator 1X, 10X Probe attenuator 1X, 10X, 100X, 1000X HARD WARE FREQUENCY COUNTER <ul style="list-style-type: none"> Reading resolution 6 Bytes Accuracy ±0.01% Range DC Couple 10Hz to MAX Bandwidth Signal Types Satisfying all Trigger signal (Except Pulse width trigger and Video Trigger)
CONTROL PANEL FUNCTION <ul style="list-style-type: none"> Auto Set Auto adjusting the Vertical, Horizontal system and Trigger Position Save/Recall Support 2 Group referenced Waveforms, 20 Group setups, 20 Group captured Waveforms internal Recall function and USB flash driver Storage storage function. 	ACQUISITION SYSTEM <ul style="list-style-type: none"> Sample Types Real time, Equivalent time Memory Depth ADS1202CML 5Kpts / CH ADS1000CML Series Single Channel 2Mpts, ADS1022C Single Channel 4Kpts ; ADS1000CML Series

DIGITAL STORAGE OSCILLOSCOPE

Model Number : GOTT-DSO 1000 SERIES

GENERAL SPECIFICATIONS :	
TRIGGER SYSTEM	
• Trigger Types	Edge, Pulse Width, Video, Slope, Alternative
• Trigger Modes	Auto, Normal, Single
• Trigger Sources	Ch1-2, EXT, EXT/5, AC Line
• Trigger Coupling	AC, DC, LF rej, HF rej
• Trigger Level Range	CH1, CH2 ±6divisions from center of screen
• EXT: ±1.2V	
• EXT/5: ±6V	
• Trigger Level Accuracy (typical) applicable for the	
• signal of rising and falling time	20ns
• Internal	±(0.2 div x V/div) (within±4 divisions from center of screen)
• EXT	±(6% of setting + 40 mV)
• EXT/5	±(6% of setting + 200 mV)
• Edge Trigger	Edge type Rising, Falling, Rising and Falling
• Pulse Width Trigger	
• Trigger Modes	(>, <,<=) Positive Pulse Width, (>,<,<=) Negative Pulse Width
• Pulse Width Range	20ns-10s
• Video Trigger	Support signal Formats -PAL/SECAM, NTSC
• Trigger condition	odd field, even field, all lines, line Num
• CH2 trigger type	Edge, Pulse, Video, Slope
CHANNEL MODE SAMPLING RATE	
• Long and Short Memory	
• Single Channel	1Gsa/s 40kpts No Support 500MSa/s or lower 40kpts 2Mpts
• Double Channels	500MSa/s or lower 20kpts 1Mpts
• Sample Mode	Sample, Peak Measure, Average
• Averages	4,16,32,64,128,256
MEASURE SYSTEM	
• Auto Measure	
• Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Crms, Vrms, ROVShoot, FOVShoot, RPRESHoot,	
• FPRESHoot, Rise time, Fall time, Freq, Period, +Wid, -Wid, +Dut, -Dut, Bwid, Phase, FRR, FRF, FFR,	
• FFF,LRR,LRF, LFR, LFF	
• Cursor Measure Manual mode, Track mode and Auto mode	
TRIGGER SYSTEM	
• Slope Trigger	(>,<,<=) Positive slope, (>,<,<=) Negative Slope
• Time: 20ns-10s	
• Alternative Trigger	CH1 trigger type: Edge, Pulse, Video, Slope

Manuals :

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manual & Training will be provided where applicable.
- (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODELNUMBER	CODE
DIGITALSTORAGE OSCILLOSCOPE	GOTT-DSO 1000 SERIES	047-000
	GOTT-DSO-1202CL+	047-001
	GOTT-DSO-1202CML	047-002
	GOTT-DSO-1152CML	047-003
	GOTT-DSO-1102CML	047-004
	GOTT-DSO-1062CML	047-005
	GOTT-DSO-1042CML	047-006
	GOTT-DSO-1022CL+	047-007

* Proposed design only, subject to changes without any notice.