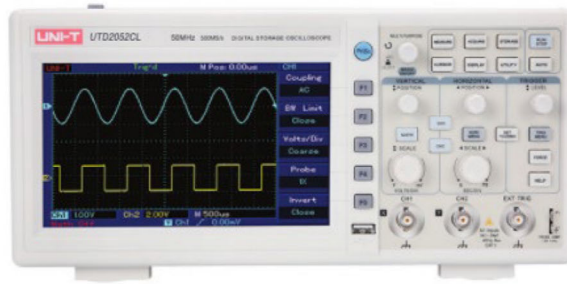


# UTD2000CL Series Digital Storage Oscilloscope



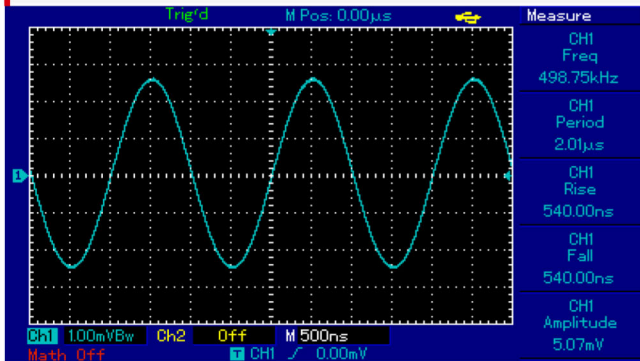
## ● Introduction

UTD2000CL series is a dual-channel, 25/50MHz bandwidth, economical desktop digital storage oscilloscope with a maximum sampling rate of 500MS/s, which can meet basic measurement requirements. The simple and clear front panel design provides users with convenient operation.

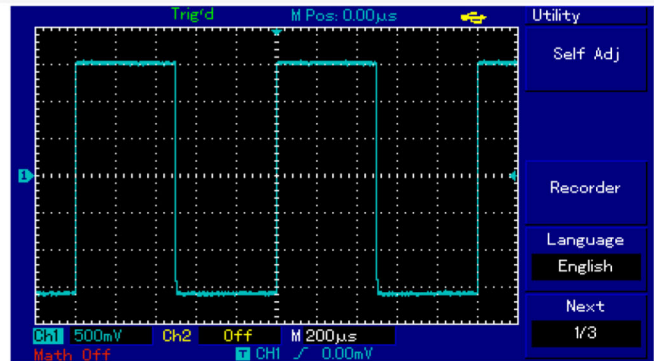
## ● Features

- 25MHz/50MHz bandwidth
- 250MS/S or 500MS/s real-time sampling rate
- Low noise, wide vertical range: 1mV/div~20V/div
- System software upgradable with USB drive
- Auto measurements of 28 waveform parameters
- 7-inch TFT LCD, WVGA (400X 240)

## Application features



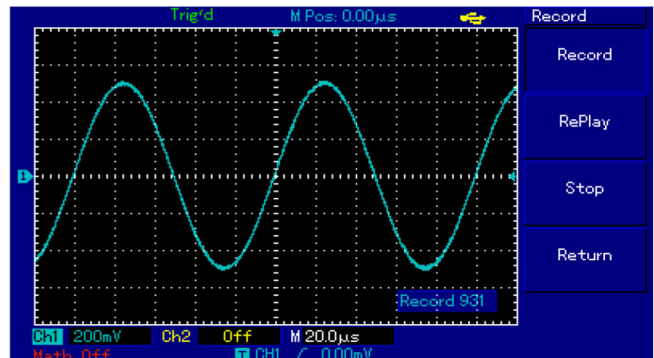
Measure tiny signals with lower noise floor



Multilingualism to meet the needs of more users in countries



Automatic measurement of multiple parameters



Waveform recording and playback function

**Technical Specifications**

Model	<b>UTD2025CL</b>		<b>UTD2052CL</b>
Bandwidth	25MHz		50MHz
Channels	2		
Sampling rate	250MS/s		500MS/s
Rise time	<14ns		<7ns
Memory depth	25kpts		
Waveform capture rate	>2,000wfms/s		
Vertical scale (V/div)	1mV/div~20V/div		
Time base scale (s/div)	10ns/div~50s/div		5ns/div~50s/div
Storage methods	Setup, waveform, bitmap		
<b>Trigger specifications</b>			
Frequency counter	6 bits		
Trigger types	Edge, pulse width, video (UTD2025CL), alternate		
Level range	Internal	$\pm 8$ div from screen center	
	EXT	$\pm 3$ V	
Holdoff range	80ns~1.5s		
Edge trigger types	Rise, fall, rise & fall		
<b>Pulse width trigger</b>			
Trigger mode	To be more than, less than or equivalent to positive/negative pulse width;		
Pulse width scope	20ns~10s		
<b>Alternate trigger</b>			
CH1/CH2	Edge, pulse width		
<b>Measurement</b>			
Cursor	Manual mode	Voltage difference ( $\Delta V$ ) between cursors; Time difference ( $\Delta T$ between cursors; Reciprocal of $\Delta T$ ) ( $1/\Delta T$ )	
	Tracing mode	Voltage and time of waveform point	
	Auto mode	It is allowed to display cursor during automatic measurement	
Automatic measurement	Peak value, amplitude, the maximum value, the minimum value, top value, bottom value, middle value, average value, root-mean-square, overshoot, preshoot, frequency, cycle, RiseTime, DescendTime, positive pulse width, negative pulse width, positive duty cycle, negative duty cycle and delay		
Mathematical operation	'+', '-', 'x', '÷', Inverted		
Stored waveform	20 groups of waveform and 20 kinds of setup		
FFT	Window	Hanning, Hamming, Blackman, Rectangle	
	Sampling point	1024 points	
Lissajous's figure	BW	25MHz	50MHz
	Phase location difference	$\pm 3$ degrees	
Interfaces	Pass/Fail (UTD2025CL), USB-OTG		
<b>General Characteristics</b>			
Power	100V~240V ACrms, 50Hz/60Hz		
Display	7-inch TFT LCD, WVGA (400x240)		
Product color	White and grey		
Product net weight	2.2kg		
Product size	306mm x 147mm x 122mm		
Standard quantity per carton	2pcs		
Standard carton measurement	450mm x 420mm x 280mm		
Standard carton gross weight	7.1kg		
<b>Ordering Information</b>			
UTD2000CL Series	UTD2052CL (50MHz, 500MS/s, 25kpts, 2-Channel)		UTD2052CL
	UTD2025CL(25MHz, 250MS/s, 25kpts, 2-Channel)		UTD2025CL
Standard Accessories	International standard power cord		/
	USB interface cable		UT-D05
	Passive Probe x 2 (1 x, 10 x switchable, 60MHz, )		UT-P03
	Passive Probe x 2 (1 x, 10 x switchable, 25MHz, )		UT-P01
	user's manual		/