

Tabletový osciloskop

tBook mini řady TO1000



70 MHz nebo 100 MHz šířka pásma, 2 nebo 4 analogové kanály

1 GSa/s skutečné vzorkování

14 Mpts nebo 28 Mpts hloubka paměti

Až 80,000 průběhů/s při zachycování do paměti

Až 5 hodin provozu na Li-Ion akumulátor (volitelně)

8" TFT LCD s rozlišením 800*600 pixelů s multidotykovým kapacitním displejem

256 úrovní intenzity při zobrazení dosvitu

Funkce spouštění: Edge, Pulse, Logic, Time Out, Runt, Slope, N Edge, Alternating a Video

Vestavěná 8G paměť pro záznam měření a snímků obrazovky s možností editace v osciloskopu

Rozhraní LAN, Wi-Fi (volitelně), USB Host, USB Device, HDMI, Trigger out

Provádějte svá měření jednodušeji

V porovnání s tradičními osciloskopy přináší nová řada tabletových osciloskopů Micsig zcela novou zkušenost při práci s přístrojem. Umožňuje rychlou a intuitivní práci.

Micsig tBook řady T01000 je základní řadou tabletových osciloskopů, které nabízejí skvělé parametry s velmi příznivou cenou. Kompaktní provedení šetří místo na pracovním stole.

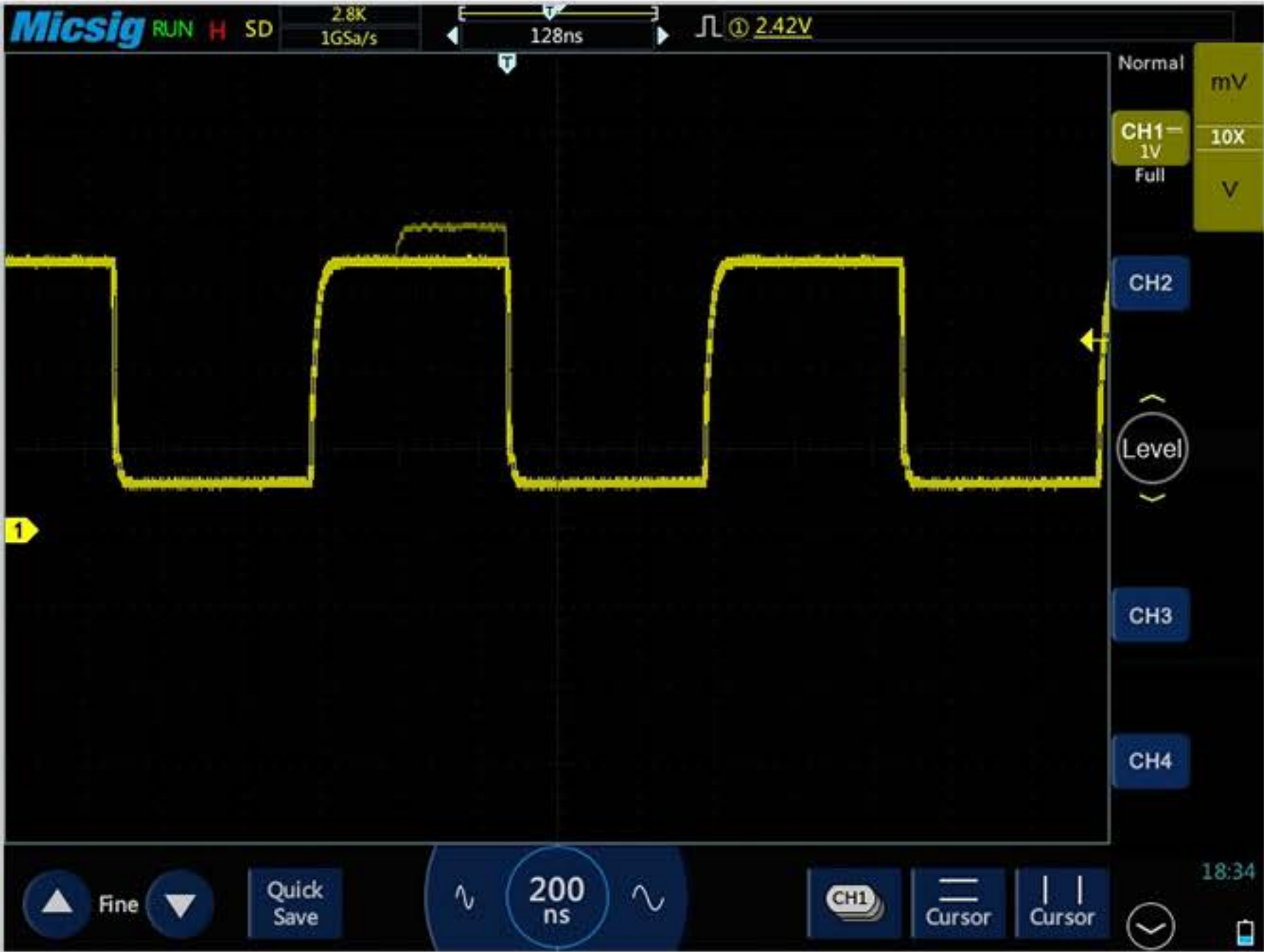
Použitý kapacitní displej nabízí multidotykové ovládání pomocí gest nebo vyskakovacích menu.



Hlavní parametry

Model	TO1072	TO1074	TO1102	TO1104
Bandwidth	70MHz	70MHz	100MHz	100MHz
Rise time	≤5ns	≤5ns	≤3.5ns	≤3.5ns
Input channel	2	4	2	4
Sample rate	1G Sa/S	1G Sa/S	1G Sa/S	1G Sa/S
Memory depth	14Mpts	14Mpts	28Mpts	28Mpts
Max capture rate	80,000 wfm/s	80,000 wfm/s	80,000 wfm/s	80,000 wfm/s
Bandwidth limitation	20MHz	20MHz	20MHz,high pass, low pass	20MHz,high pass, low pass
Interface	Wi-Fi,LAN,HDMI,USB Host,USB Device,GND,DCPower,Trigger out			
Screen	8 inches TFT LCD 800*600 pixels display resolution,14*10 grids			
Dimension	250*200*55mm			
Battery(optional)	Built-in lithium battery, working time is up to 5 hours continuously			

Vlastnosti a funkce



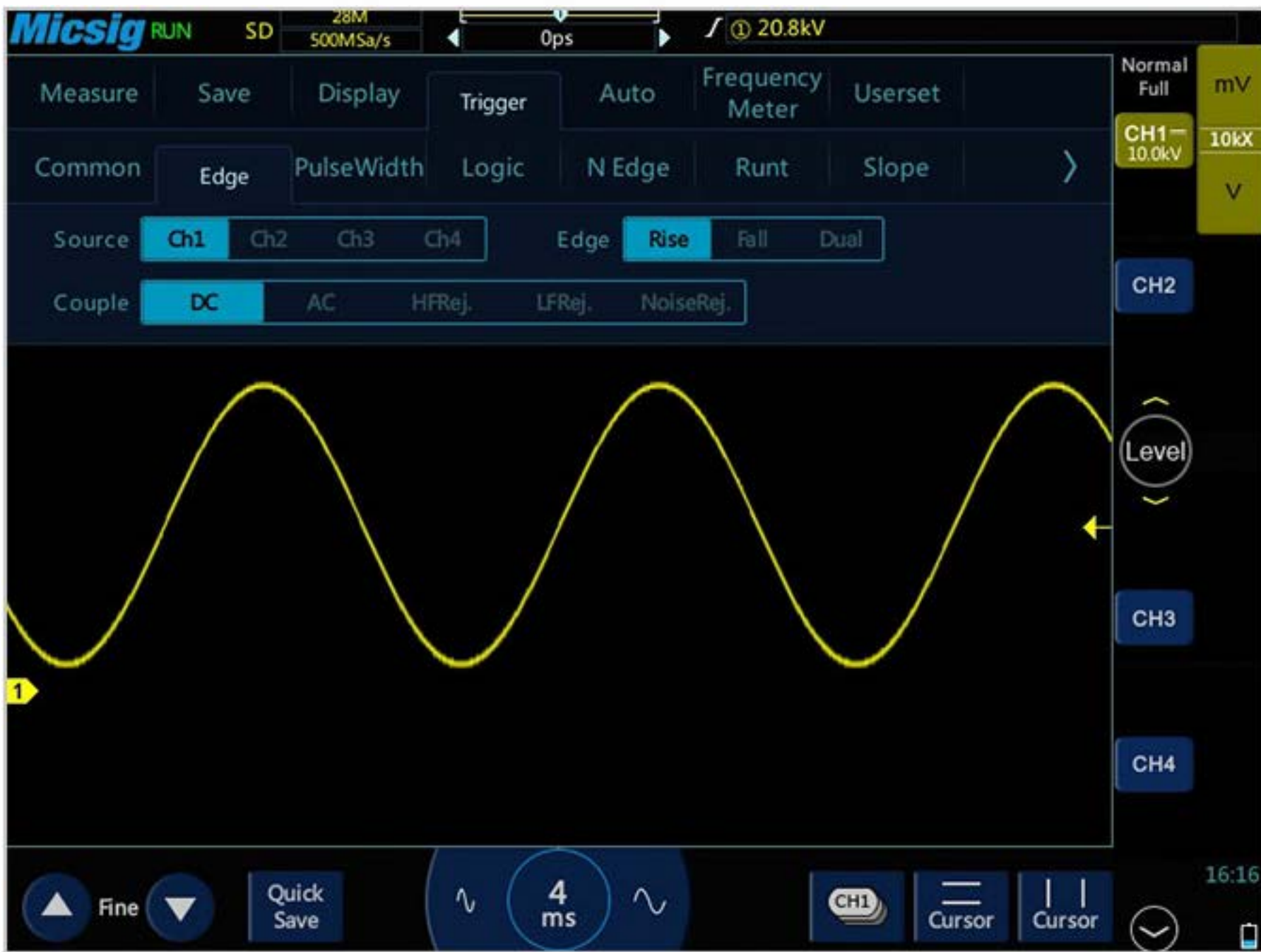
Zachycení až
80,000wfm/s



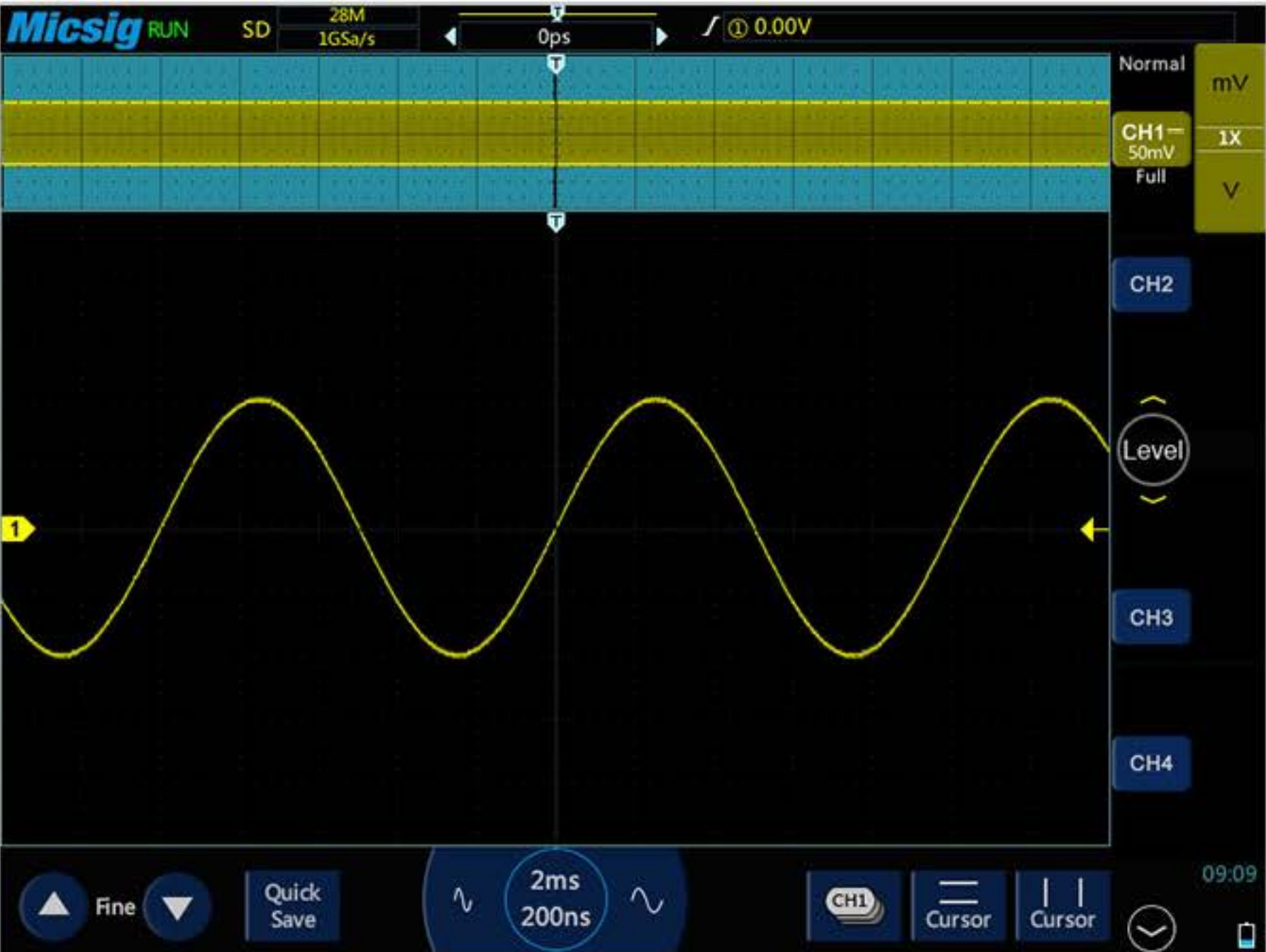
256 úrovní intenzity



31 automatických měření



Různé možnosti nastavení spouštění



Až 28Mpts hloubka paměti



Rychlé ukládání

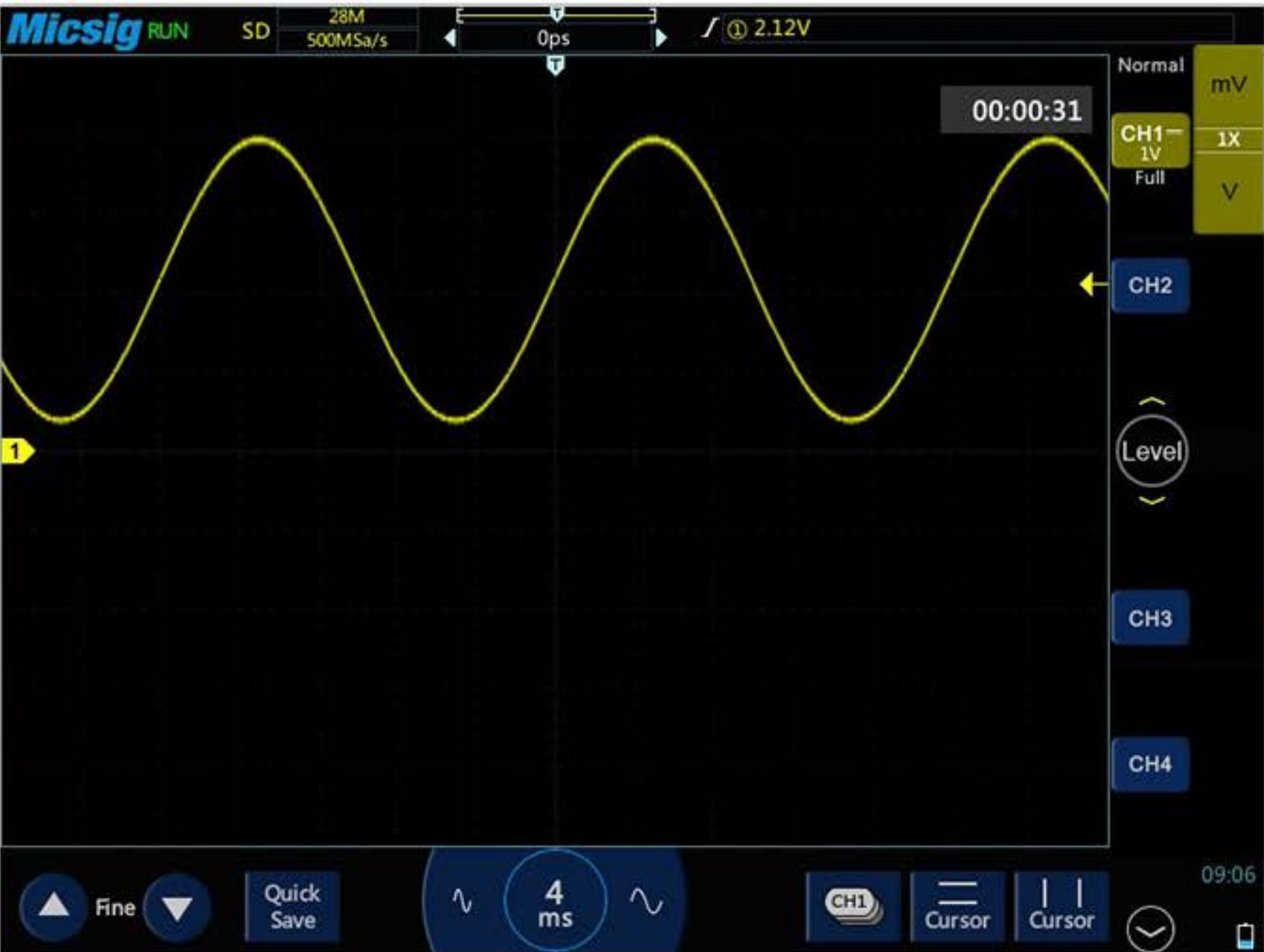


PC software zdarma

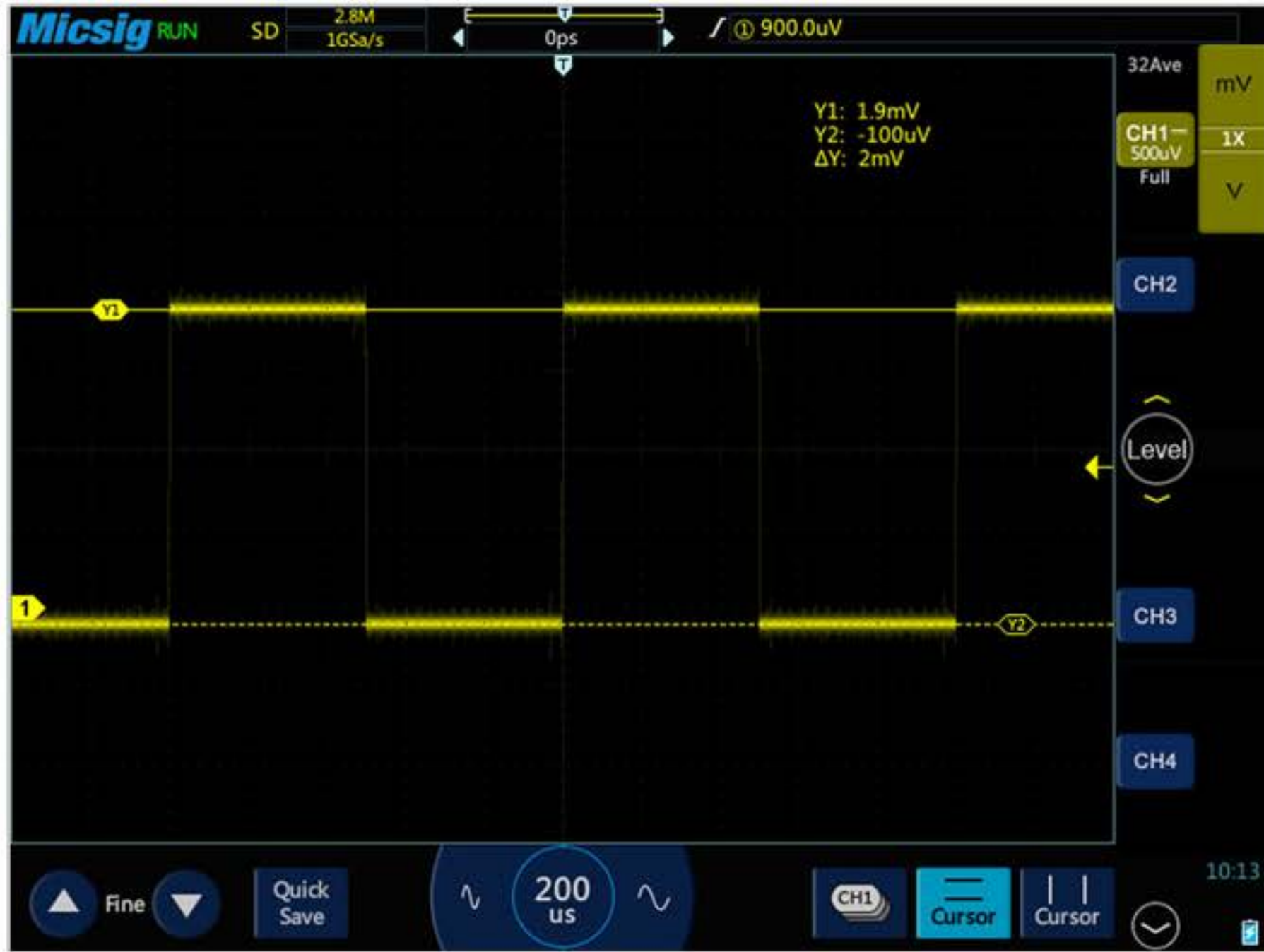


Ovládání pomocí myši

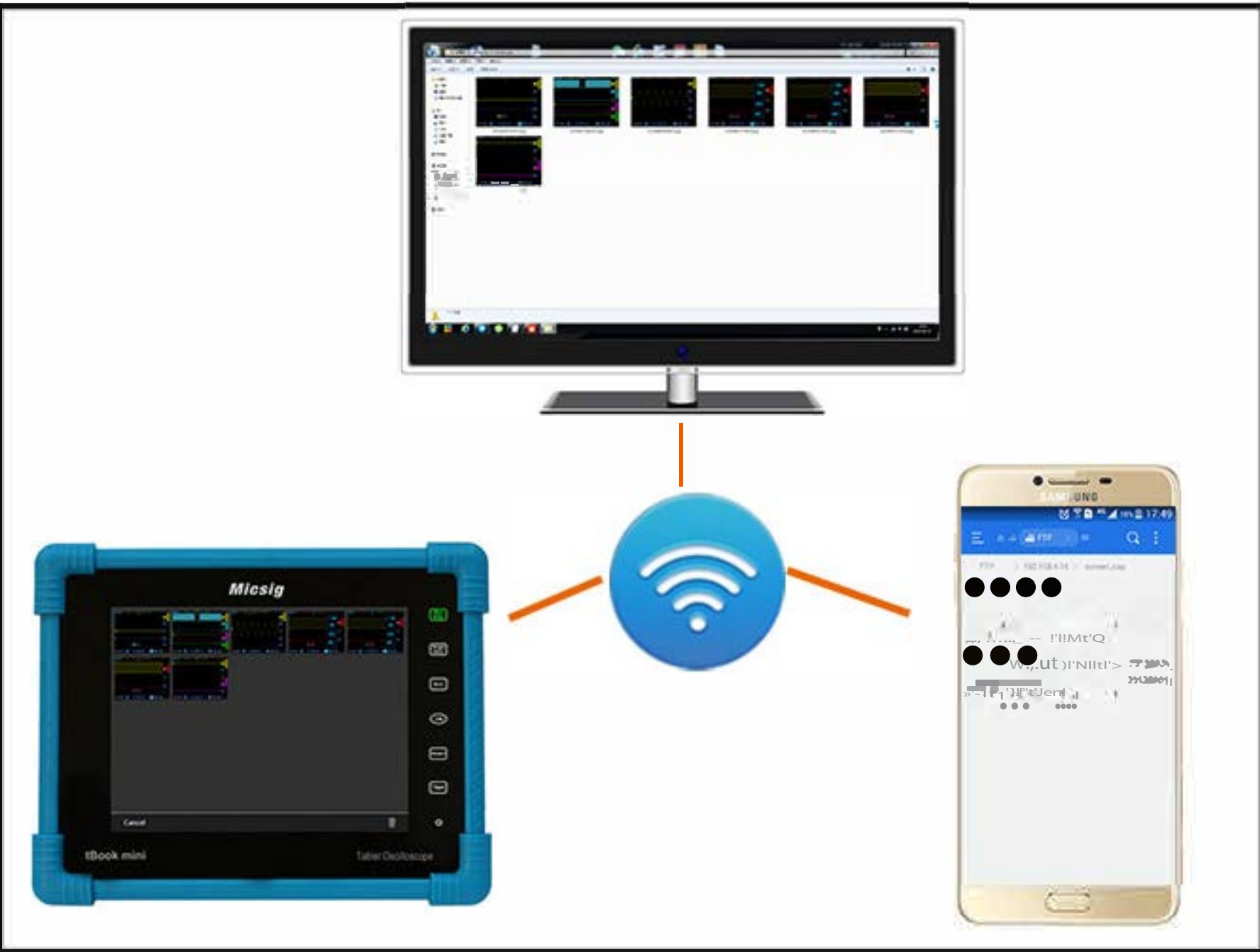
Volitelné softwarové příslušenství



Zobrazení záznamu



Vertikální citlivost 500μV/div



Wi-Fi



HDMI

Specifikace

All specifications apply to all models unless noted otherwise.

Horizontal system	
Time base range	2ns/div to 1 ks/div
Time base delay range	-14 divisions to 14ks
Clock skew	≤±2ppm/Year
Time based accuracy	±20ppm

Vertical system		
Bandwidth limitation	20 MHz (TO1072/TO1074)	20 MHz high pass, low pass (TO1102/TO1104)
Input coupling	DC, AC, GND	
Input impedance	1 MΩ±1% 14.5 pE±3 pF	
Vertical resolution	8 bits	
DC gain accuracy	<±2% (1MΩ)	
Vertical scale	1mV/div to 10V/div (1MΩ)	
Channel to channel	≥40dB (100:1)	
Offset range	±6div	
Maximum input voltage	CAT I 300V (1MΩ)	

Sampling system		
Sampling mode	Real time sample rate	
Peak sampling		
Sample rate 1G Sa/s	All the sampling glitches in scanning rate are narrow to single channel 1 ns, dual channel 2 ns .four channel 4ns	
Max duration in the max sampling rate		
Sample rate 1G Sa/s	28/14ms	
Sample rate 500MSa/s	56/28ms	
Sample rate 250MSa/s	56/28ms	
Average	Average of sampling for N times N is chosen from 2, 4, 8, 16, 32, 64, 128, 256	
Envelope	Envelope of sampling for N times N is chosen from 2, 4, 8, 16, 32, 64, 128, 256, ∞	

Trigger system		
Trigger mode	Normal, Auto, Single	
Trigger coupling	DC, AC, HF reject(>50KHz), LF reject(<50KHz), noise reject	
hold off range	200ns to 10s	
Trigger type		
Edge	Positive, negative, or either slope on any channel input. Coupling includes DC, AC, HF reject, LF reject, and noise reject.	
Pulse Width	Trigger on width of positive or negative pulses that are > , < , = , ≠, or inside/ outside a specified period of time (8ns~10s).	
Logic	Trigger when any logical pattern of channels goes false or stays true for specified period of time (8ns~10s). Any input can be used as a clock to look for the pattern on a clock edge. Pattern (AND, OR, NAND, NOR) specified for all input channels defined as High, Low, or Don't Care	
Video trigger	Trigger on all lines or individual lines, odd/ even or all fields on PAL/625 SECAM、NTSC/525、720P、1080I、1080P video signals.	
Time out	Trigger on an event which remains high, low, oreither, for a specified time period. Selectable from	
Slope	Positive slope (Great than, lower than, within specific interval) Negative slope (Great than, lower than, within specific interval)	
Runt	Trigger on a pulse that crosses one threshold but fails to cross a second threshold before crossing the first again. Event can be time- or logic qualified.	
Nth edge	Edge type: Risingm Falling Idle time: 16ns to 4s Number of edges 1 to 65535	

Waveform measurement	
Cursor	Horizontal Cursor, Vertical Cursor, Cross Cursor
Auto measurements	23, of which up to five can be displayed on-screen at any one time. Measurements include: Period, Frequency, Rise Time, Fall Time, Delay, Positive duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.
Waveform math	
Dual Waveform FFT	Add, subtract, multiply, and divide waveforms
FFT	Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS, and FFT Window to Rectangular, Hamming, Hanning, or Blackman-Harris.

Display system	
Display type	8" TFT LCD Multi point capacitive screen
Display resolution	800*600
Max touch point on touch screen	5 points
Operation way	Full touch.Mouse
Afterglow time	Auto, 10ms to 10s, ∞
Time Base format	YT, XY, Roll, Zoom
Expansion bench mark	Center, Trigger Position
Waveform display	Brightness is adjustable, point ,Line
Grid	14*10 div, Brightness of the grid is adjustable
Grey level	256 level
Language	English.Simplified Chinese. For more languages please contact Micsig

Storage	
Storage media	Native, U Disk
Built-in memory	8G
Storage format	csv,wav,bin
Waveform quantity	Unlimited
waveform storage name	Support
display the reference waveform quantity	4 piece
screenshot	Support
User setting number storage	Unlimited
User name setting	Support
Flash format	Comply with industry standards

Power source	
Power source voltage	100 to 240V AC, 50/60Hz
Power consumption	<60W
Fuse	12V DC, 5A
Battery(Optional)	Lithium battery

Interface	
USB Host	Support USB mass storage devices, support read and write
USB Device	Support read and write
DC interface	For charging
Probe calibration Port	1 KHz, 2Vpp
LAN	Support
HDMI	Optional
Wi-Fi	Optional

Environment	
Temperature	
Operating	0 °C to 45 (
Non-operating	-40 (to 60 (
Humidity	
Operating	5% to 85%, 25 °
Non-operating	(5% to 90%, 25 (
Altitude	
Operating	<3000m
Non-operating	<12000m

Physical characteristics	
Dimensions	
Height	200mm
Width	250mm
Depth	55mm
Weight	
Net	
2CH Bare	1040g
4CH Bare	1125g
Shipping	
4CH Bare	2445g
2CH Bare	2630g
Battery	263g

Údaje pro objednávku

	Popis	Objednací číslo
Model	T01104 (100 MHz, 4 CH)	MC.T01104
	T01102 (100 MHz, 2 CH)	MC.T01102
	T01074 (70 MHz, 4 CH)	MC.T01074
	TO1072 (70 MHz, 2 CH)	MC.T01072
Součástí dodávky	Tabletový osciloskop tBook Mini	typ dle objednání
	Napájecí kabel	MC.MS-Cable
	Napájecí adaptér	MC.MS-PA-1205
	Sondy (počet stejný s počtem kanálů osciloskopu)	MC.MS-PR-P130A
	BNC	MC.MS-Cap
Hardwarové volitelné přísluř.	Li-Ion akumulátor	MC.MS-BA
	Poutko na ruku	MC.MS-Belt
	Ochranná fólie displeje	MC.MS-Mask
	Brašna	MC.MS-Handbag
Softwarové volitelné přísluř.	Wi-Fi	MC.MS-Wi-Fi
	HDMI	MC.MS-HDMI
	Vertikální citlivost 500µV/div	MC.MS-500
	Záznam videa	MC.MS-VR



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