Micsig™

Tablet Oscilloscope tBook Series

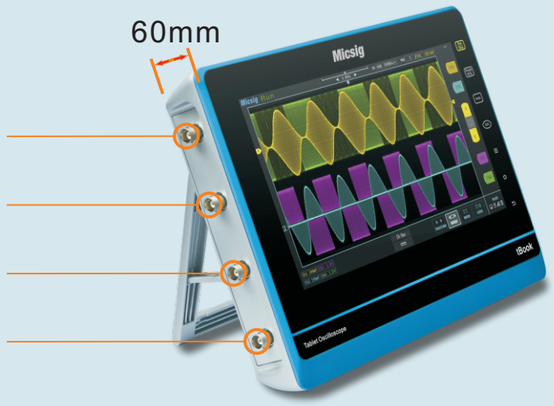
70M~1GHz Bandwidth | 1~5 GSa/s | 9~450 Mpts | 200,000 wfms/s | 2/4 Channels

Micsig tablet oscilloscope tBook series is the world's first full touch digital oscilloscope. Up to 1 GHz Bandwidth and up to 5GSa / s sampling rate ensure you have the performance you need. It aims to meet all kinds of requirements of the largest digital oscilloscope market segment from the communications, semiconductor, computing, aerospace defense, instrumentation, research/education, industrial electronics, consumer electronics and automotive industries with excellent technology and industry leading specifications.

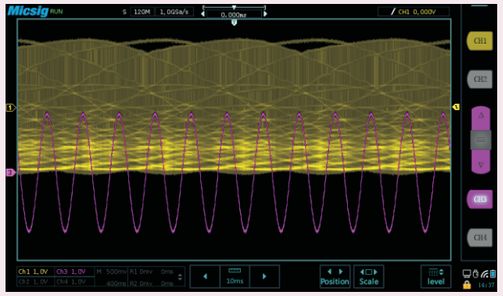
Features and Benefits

- 10.1" LCD full touch screen, up to 1024 * 600 high resolution
- Ultra-thin body with 1.77 KG only
- Select from 70MHz,100MHz,150MHz,200MHz,300MHz,350MHz,500MHz,600MHz,1GHz bandwidth models
- Two or four optional isolated channels
- 1 to 5GSa / s real time sampling rate
- Up to 200,000wfms/s max waveform capture rate
- 8 hours continuous battery life
- Up to 450 Mpts memory depth
- Adjust the viewing mode with different brightness Automatically
- Support UART, LIN, CAN, SPI, I2C, I2S, 1553B, and 429 serial bus triggering and decoding
- Support WIFI, LAN, USB2.0 connectivity and HD video analysis
- Integration of 5½ and 6½ high-precision multimeter, recorder and function waveform generator

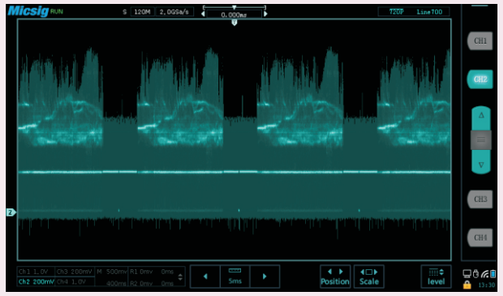
Four isolated inputs (optional) , and all isolated input allows independent floating measurements with each input.



Wi·Fi



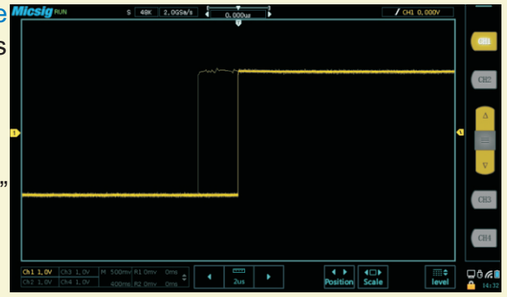
3-D waveform display



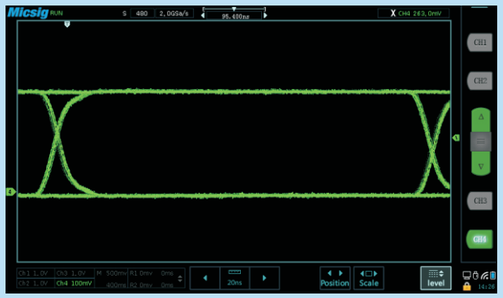
HD trigger

3-D display function redefines the waveform display, oscilloscope counts every data in order to display them with different colors or brightness, so that 2-D display (time and amplitude) turn into 3-D display (plus dimension of signal frequency), which becomes clear to distinguish the occasional signals ,and provides an excellent visual effect .
Support HD trigger for PAL, NTSC, SECAM, 720P,1080I options 1080P (optional).

Up to 200K wfrms/s waveform capture rate



Waveform capture rate offers how many waveforms display in a minute,“Dead zone” of oscilloscope is the time of processing and displaying the waveform which have been captured, during the time oscilloscope sacrifices any waveforms. The time of “dead zone” is far more than “display zone” for common oscilloscope, which results to signals can not be displayed in most time, so abnormal signals escaped. High capture rate oscilloscope reduces the“dead zone” time, and abnormal signals can be caught fast and accurately

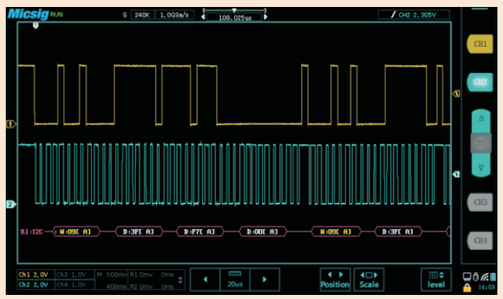


Eye pattern mode

A perfect eye pattern contains an immense amount of parametric information about a signal, it gives you a visual indication of overall signal quality, noise level and signal jitter without looking at the data content. It finds errors like improper cable connections, bad contacts, incorrect grounding and missing or superfluous terminators.

Serial bus trigger and decode

Waveform and data can be got in graphic mode : while in text mode , address , ID, data , examination which makes up the frame are classified , Also frame type and mistake can be satisfied, which helps users to debug and analyze the serial bus easier, and waveform data can be transfered to a PC by a flash disk.



Tablet Oscilloscope tBook series specification

Item	Descrption
Bandwidth	70MHZ,100MHz,150MHz, 200MHz,300MHz,350MHz, 500MHz,600MHz,1GHz
Real time sample rate	1GSa/s~5GSa/s
Memory depth	18~450M single channel, 9~225M dual channel
Channels	2 or 4
Rise time	≤5ns~≤350ps
Vertical system	
Bandwidth limited	200MHz,20MHz
Input coupling	DC ,AC ,GND
Input impedance	1MΩ±1%≈15pF±3 pF
Vertical scale	2mV/div～5V/div
Vertical resolution	8 bit
Probe	1mX~1kX, 1～2～5 step by step
Maximum input voltage	300V CAT Ⅲ
Isolated channel voltage	1000V CAT Ⅱ 600V CAT Ⅲ
DC vertical offset accuracy	2mV/div～10V/div, ±2.0%
Trigger system	
Trigger types	Edge,Pulse,Short pulse,Logic, Serial data (UART,LIN,CAN, SPI,I2C,1553B, 429)
Video trigger software options	PAL,NTSC,SECAM,720P, 1080I,1080P
Coupling modes	DC,AC,HF Rej,LF Rej,Noise Rej
Trigger modes	Auto,normal,single
Trigger source	CH1,CH2,CH3,CH4
Inhibition time	200ns~10s
Display	
Screen	10.1 inchesTFT LCD capacitive touch screen
Resolution	1024*600
Backlight	500（250）
Diagram	18*10
Grayscale	128
Persist	auto,100ms～10s or ∞
Language	Simple Chinese,English
I/O port	
Mini USB2.0	connect to PC
USB2.0	U disk,mouse,button, wireless mouse
WiFi	supprort 802.11b/g/n, up to 150Mbps
Record	
Display ways	Full Screen,Roll
Record time base	10us/div～2min/div
File size	≤4G
Size	
Dimension	275*210*60mm
Weight	Main unit: 1770g, accessories: 420g,battery:276g

Item	Descrption
Automatic measurements	31. Measurements include: Period, Frequency,Delay,Rise Time,Fall Time,Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width,Negative Pulse Width,Burst Width,Phase, Positive Overshoot,Negative Overshoot, Peak to Peak, Amplitude,High,Low,Max,Min, Mean,Cycle Mean,RMS,Cycle RMS
Cursor	Vertical cursor,horizontal cursor,cross cursor
Horizontal system	
Time base range	200ps/div～1000s/div
Time base delay time range	-12div～12ks
Acquisition Modes	Normal, average, peak , envelop
Time base accuracy	20ppm
Display mode	XY, YT, Roll
XY formart	2 simultaneous
Math functions	
Operator	+, -, *, /
FFT	Rectangular,Hamming, Hanning, or Blackman-Harris
Storage	
Storage	Talet oscilloscope,USB Device,PC
Storage format	CSV、waveform、jpg
Refernce waveform	≤4
Waveform setting	4 sets
Dynamic record time	≤2H
Powder	
Power adapter	Input:100-240V,50-60Hz,2A; Output:12VDC,5A
Battery	7.4V/9000mAh,Life time 4～8h
Charging time	＜5h
Power consumption	≤15W
Enviorment	
Operaitng temperature	-20℃～+50℃
Operaitng humidity	＜95%RH
Operating altitude	＜3000m
Storage altitude	＜12000m
Probe	
Operating voltage	CAT III 300V,CAT II 600V
Attenuation factors	10X
Input capacitance	13pF
Matched oscilloscope scale	10pF~30pF
Input impedance	10MΩ±1%
Frequency scale	DC~250MHz
Rise time	1ns
Cable length	1200mm

Micsig Tablet Oscillsocope-tBook Series Model Index

Model	TO72	TO74	TO102	TO104	TO152	TO154	TO202	TO204	TO302	TO304	TO352	TO354	TO502	TO504	TO602	TO604	TO1002	TO1004
Bandwidth	70M	70M	100M	100M	150M	150M	200M	200M	300M	300M	350M	350M	500M	500M	600M	600M	1G	1G
Channels	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4
Real time sample rate	1G/500M	1G/500M	1G/500M	1G/500M	1G/500M	1G/500M	1G/500M	1G/500M	1. 5G/750M	1.5G/750M	2G/1G	2G/1G	5G/2.5G	5G/2.5G/ 1.25G	5G/2.5G	5G/2.5G	5G/2.5G	5G/2.5G
Optional sample rate	—	—	—	—	—	—	—	—	2G/1G	2G/1G	—	—	—	—	—	—	—	—
Memory depth	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	18M/9M	45M/22.5M	90M/45M /22.5M	45M/22.5M	45M/22.5M	45M/22.5M	45M/22.5M

Software Package/Software Options

Isolated Inputs	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	—	—	—	—	—	—
3D Waveform Display	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High Capture Rate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Low Pulse Trigger	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Slope Trigger	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Video Trigger	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Pass Comparasion Test	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
WiFi	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Built-in Storage	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G	4-32G
Light Sensor	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Built-in Battery	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Android System	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Serial Data Trigger	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Probe Calibration SignalOutput	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
5½ 6½ multiMeter	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—
Logger	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
Function Generator	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—	optional	—
Dimension	275mm*210mm*60mm																	
Display	10.1 inches TFT LCD Full touch																	
Resolution	1024*600																	

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