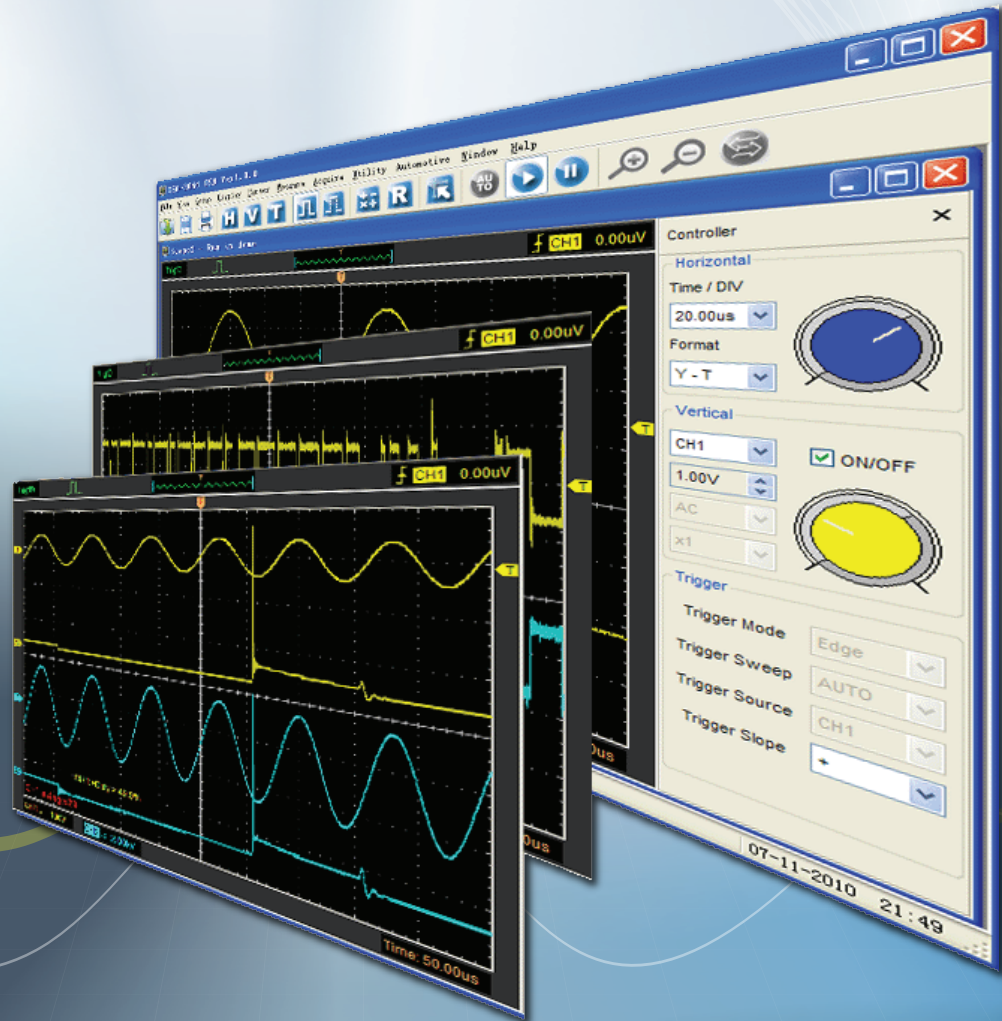


# PC USB Digital Oscilloscope

60MHz; 4CH; 72-10175



## Feature

- 4 Channels and EXT trigger, 60MHz Bandwidth.
- 200MSa/s real-time sampling rate, 10k--16M memory depth per Channel.
- Frequency Counter, FFT spectrum analysis.
- 8--36V Wide range of input voltage, suitable for vehicle power.
- USB 2.0 interface plug and play, LAN and WIFI optional.
- More than 20 kinds of automatic measurement function, PASS/FAIL Check function, is suitable for engineering application.
- Software Support: Windows NT, Windows 2000, Windows XP, VISTA, Windows 7.
- Supply DEMO code (VC/VB/LABVIEW) and technical support.

## Specifications

Model		72-10175
Acquisition	Sample Mode	Real-Time Sample
	Sample Rate	200MSa/s
	Average	N acquisitions, all channels simultaneously, N is selectable from 2, 4, 8, 16, 64, and 128
Input	Input Coupling	DC, AC, GND
	Input Impedance	Resistance: 1M $\Omega$ ; Capacitance: 25pF
	P-80,PP-150,PP-200 Probe Attenuation	10X
	Probe Attenuation Factors	1X, 10X
Horizontal	Maximum Input Voltage	400Vpk (DC + peak)
	Scanning Speed Range(Sec/Div)	5ns/div ~ 1000s/div(1-2-5 sequences)
	Sample Rate and Delay Time Accuracy	$\pm 50$ ppm( any interval $\geq 1$ ms )
	Wave form Interpolation	Step, Linear, Sin(x)/x
	Memory Depth(Sample Points)	10K ~ 16M for each channel; 16M: 5ns/div-1000s/div
	Analog Bandwidth	60MHz (-3dB)
	A/D converter	8 bit resolution
Vertical	Vertical Scale(Volt/div) Range	10mV ~ 5V/div @ x1 probe(1,2,5 sequence); 100mV ~ 50V/div @ x10 probe
	Position Range	$\pm 4$ division
	Selectable Analog Bandwidth Limit(typical)	20MHz
	Lower Frequency Response(-3dB)	$\leq 10$ Hz(at input BNC)
	Rise Time at BNC(typical)	$\leq 5.8$ ns
	DC Gain Accuracy	$\pm 3\%$
	Trigger	Trigger Source
Trigger Mode		Auto, Normal and Single
Trigger Type		Edge, Pluse,Video, Alternative
Trigger Sensitivity		0.02 div increments
Trigger Level Range		$\pm 4$ V
Trigger Level Accuracy		$\pm 4$ division
Edge Trigger Slope		Rising, Falling
Pulse Width Trigger		Trigger Condition: Trigger when <, >, =, or $\neq$ ; Positive pulse or Negative pulse Pulse Width Range: Selectable from 20ns to 10s
Video Trigger Type (Signal Formats and Field Rates)		Supports NTSC, PAL and SECAM broadcast systems for any field or any line
Alternative Trigger		CH1/CH2/CH3/CH4: Internal Trigger, Edge, Pulse Width, Video
Measurement	Cursor Measure	Amplitude difference between cursors ( $\Delta V$ ); Time difference between cursors ( $\Delta t$ ); Reciprocal of $\Delta t$ in Hertz ( $1/\Delta t$ ) (Cross, Trace, Horizontal, Vertical)
	Auto Measure	Voltage Time
		Vp-p, Vmax, Vmin, Vmean, Vamp, Vtop, Vbase, Vmid, Vrms, Vcrms, Preshoot, Overshoot Frequency, Period, Rise Time(10%~90%), Fall Time(10%~90%), Positive Width, Negative Width, Duty Cycle
Environmental	Temperature	Operating: 0 C to 40 C; Non-operating: -20 C to +60 C)
	Cooling Method	Forced air
	Humidity	Below +35 C, $\leq 90\%$ relative humidity; +35 C to +40 C, $\leq 60\%$ relative humidity
Mechanical	Altitude	Operating: 3,000m or below; Non-operating:15,000m or below
	Size	190mm(L)x100mm(W)x35mm(H)
	Heavy	Without Packaged 0.29kg; Packaged 0.9kg;
Accessories	Probe	X1, X10 four passive probes. The passive probes have a 6MHz bandwidth (rated 100Vrms CAT III) when the switch is in the X1 position, and a maximum bandwidth (rated 300Vrms CAT II) when the switch is in the X10 position. Each probe consists of all necessary fittings.
	Adapter	A power adapter special for this product. In addition to the power adapter shipped with your instrument, you may purchase another one certified for the country of use.
	USB Line	A USB A-B line, used to connect external devices with USB-B interface like a printer or to establish communications between PC and the oscilloscope.
	Software Installation CD	A software installation CD and it also contains the user manual for the Tenma Oscilloscope.