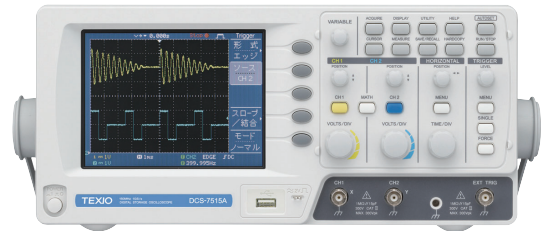


250MS/s Digital Storage Oscilloscopes

DCS-4605 (250MS/s 2ch 50MHz)

Color TFT LCD

LabVIEW CE



USB STANDARD

- Automatic measurement functions
19 kinds of automatic measurement functions are available and five parameters can be displayed on the LCD display at same time.
- Automatic calculation functions
Versatile calculation (+, -, x, FFT) functions are available.
- Built-in memory
The DCS-4605 can memories front panel setting and wave forms data by themselves using the memory.
- Clear display
The DCS-4605 have a broad outlook 5.6 inch color LCD display (TFT) and LED back light.
- Support voltage and current probes
Enable to set measuring scales of voltage / current (vertical axis) at from x0.1 to x2000 (1-2-5 steps) according to probes.
- Various trigger functions
Edge trigger, Video trigger and Pulse trigger functions are available.
- An "educational mode" function can be used in order to prevent a student from using an automatic calculation function.
- Application software; FreeWave
The software enables to control the DCS-4605 by PC (through USB). It can display wave forms on PC display in real time and save wave forms data as not only still picture but also motion picture by PC.
- Go-NoGo function
- Data logger function (with using USB flash drive)

Specifications

Model	DCS-4605	
Vertical axis		
Sensitivity	2mV/div to 10V/div (1-2-5 steps)	
Accuracy	$\pm(3\% \times [\text{Readout}] + 0.1\text{div} + 1\text{mV})$	
Bandwidth(-3dB)	DC(AC)Coupling	DC (10Hz) to 50MHz
Rise time	7.0ns max	
Input impedance	1M Ω \pm 2%, Approx. 15pF	
Maximum input voltage	300V (DC + AC peak), Installation Category II	
20MHz bandwidth (-3dB) function	Available	
Trigger		
Sources	CH1,CH2, LINE, EXT	
Modes	AUTO, NORMAL, SINGLE, TV(Video), Edge, Pulse Width, Forcing	
Coupling	AC, DC, Low/High Frequency rejection, Noise rejection	
Trigger sensibility	0.5div (5mV min.)	DC to 25MHz
Ext. Trigger sensibility	1.5div (5mV min.)	25MHz to 50MHz
Horizontal axis		
Range	1ns/div to 50s/div, 1-2-5steps (50ms/div to 50s/div at Roll mode)	
Modes	Main, Area magnification, Magnification, Roll, X-Y	
Accuracy	$\pm 0.01\%$	
Delay range	Pre-trigger	10 div max.
	Post-trigger	1000div
Signal Acquisition System		
Sample rate	Real-time	250MS/s max. (1ch)
	Equivalent	25GSs/s max.
Vertical resolution	8bits, 25levels/div	
Record length	4000 points	
Acquisition modes	Normal, Peak Detect, Average	
Peak detection	10ns (500ns/div to 50s/div)	
Average	2, 4, 8, 16, 32, 64, 128, 256	
Cursors and Measurement		
Automatic measurement functions	Vertical axis	Peak-to-peak, Max, Min, Amp, High, Low, Average, Rms Upper/Lower overshoot, Upper/Lower preshoot
	Horizontal axis	Frequency, Period, Rise time, Fall time, Positive pulse width, Negative pulse width, Duty cycle
Cursors measurement	Voltage / Time difference between cursors (V, ΔT , 1/ ΔT)	
Frequency counter	Resolution : six digits, Accuracy : $\pm 2\%$ (cannot measure below two Hz)	
Interfaces		
USB Host /USB Slave*	USB Flash Drive Max 32GB / USB 2.0 Full speed(USB-CDC) *Not support via USB3.0 or above	
General		
Power requirements	100V to 240V AC, 47Hz to 63Hz	
Power consumption	18Watts, 40VA max	
Dimensions	341.5(W) \times 162.3(H) \times 159(D)mm	
Weight	Approx. 2.5kg	
Accessories	Probe x2, AC power cable, CD-ROM (instruction manual, APP software: FreeWave)	