VT DSO-2820R

50MHz signal sampled at 200MHz

Non persistence mode

Equivalent Time Sampling Mode

Phosphorescent Mode
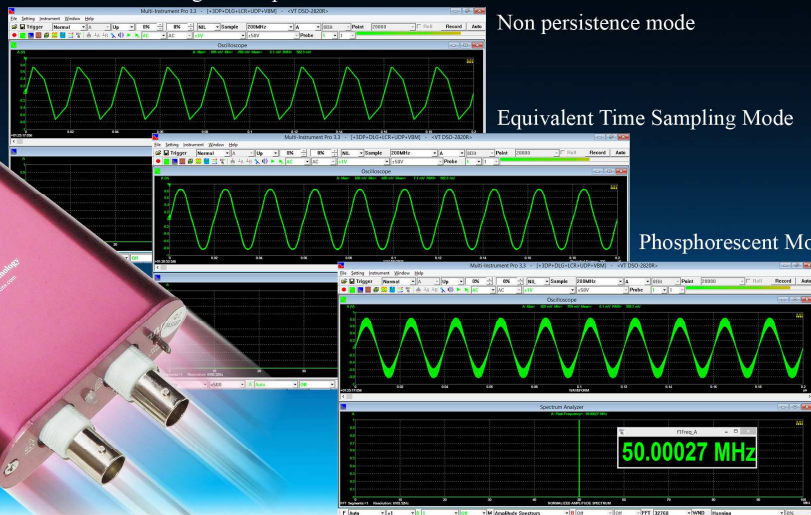
8~16Bit 200MSPS 80MHz Oscilloscope, Spectrum Analyzer

2 analog inputs, 1 digital output

Unique hardware based DSP algorithm

Sophisticated trigger function

10 voltage ranges, 1% DC accuracy

Adaptive anti-aliasing filter

Very small footprint (70 x 24 x 111 mm)

Built with latest technology

**Taking the lead
in portable test & measurement solutions!**

50.00027 MHz

Introduction

This is one of the second-generation USB DSOs designed and developed by Virtins Technology. This generation of USB DSOs features Virtins Technology's unique hardware-based DSP algorithm which enhances the performance and functionality dramatically without adding extra hardware cost. When used in conjunction with Multi-Instrument® software, the USB DSO converts any desktop, laptop, or tablet PC into a powerful oscilloscope, spectrum analyzer, multimeter, data logger, signal generator and so forth, all of which work simultaneously.

Package Contents

1) VT DSO-2820R unit with a hardware bundled Multi-Instrument Standard software license
2) 2 × 100 MHz Oscilloscope Probe P6100 with two switchable positions: ×1, ×10
3) USB cable (1.5m)
4) CD (contains the copy-protected Multi-Instrument software and VT DSO-2820R driver)

Powered by Multi-Instrument®, a powerful multi-function virtual instrument software

Free to download and try with full functionality using your sound card: http://www.virtins.com/MIsetup.exe

Main Hardware Specifications

Oscilloscope
Max. Sampling Rate: 200MHz
Min. Sampling Rate: 1Hz
Equivalent Time Sampling Rate: 40GHz
Bit Depth: 8~16 bits
Analog Bandwidth: 80MHz
12 Voltage Ranges: ±50mV ~ ±50V
DC Accuracy: 1%
Modes Supported: Frame & Streaming
Frame Buffer Size: 20k bytes per channel
Streaming Buffer Size: virtually unlimited
Analog Inputs: 2 (1 MΩ, 15 pF)

Probe Calibration Signal Output
Square: 25 MHz / N, (N=1, 2, 3, …25000)
MLS: 25 MHz / N, (N=1, 2, 3, …25000)
Voltage Range: 0~3.3V, not adjustable
Digital Output: 1 (600 Ω)

Waterfall Plot

Oscilloscope

Spectrogram

Spectrum Analyzer

Sound Level Meter
96.99 dB

Frequency Counter
1000.020 Hz
3000.020 Hz

Correlation Analyzer

Device Test Plan

Distortion Analyzer

LCR Meter
31.749 H
797.831 pF
199.484 kΩ

Signal Generator

Data Logger

Bode Plot   Vibrometer

Multi-Instrument

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