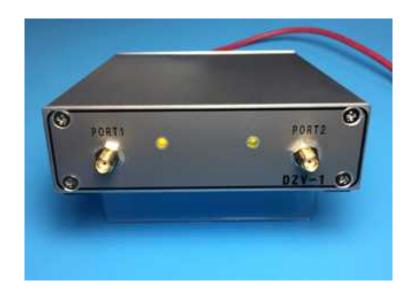
# Vector network analyzer

# Model DZV-1



#### Features

- 2 ports Vector Network Analyzer
  (S11, S21, S12, S22 can be measured)
- 100KHz 500MHz Frequency Range
- RL1=  $-75dB(100KHz \sim 200MHz)$
- RL2= -50dB (@500MHz)
  (excluded partial spurious reception)
- 5V single power supply (via USB)



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DZV-1 is the vector network analyzer which can be measured the impedance and VSWR of the antenna, S Parameter of RF component and devices. It is small and low-priced. So, it is suitable for the production line, laboratory use, various testing applications, and the educational use. The communication between the DZV-1 unit and PC is done via USB, which is also used for power supply. The LOG-MAG characteristic, the phase-characteristic, the group delay frequency characteristics, the Smith chart, the polar coordinates, the SWR characteristic can be displayed on PC.

### Application

The antenna measurement

· Return loss, VSWR, Band width, Impedance

The measurement of the connector/cable

· Insertion loss, Phase, Return loss

The RF component measurement

- · Filter, Coupler
- · Duplexer, Circulator
- · Amplifier

The measurement of fr and fa of the crystal oscillator

- · fr (Series resonant frequency)
- · fa (Parallel resonance frequency)

## Specification

Measuring frequency range	100KHz-500 MHz
Dynamic range	75 dB (@100KHz-200 MHz), about 50 dB@500MHz
Connector	SMA-J
Consumption current	310 mA (when standing-by), 430 mA (When measuring)
Outside dimension	W112 × D120 × H35 (mm)
Interface	USB2.0
Accessories	The USB cable (1 M)
The software of the side of the PC	The operation is similar to 8753D(Keysight)
MEAS::	S11, S21, S12, S22
FORM:	LOG MAG, PHASE, DELAY, SMITH, POLAR, SWR
Required environment:	WinXP (32), the Windows on or after 7, 8,8.1 or 10(32 bit or 64-bit version
The option	CAL kit (DCAL-1)