

# 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~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)  |