

# VNA-3180

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## Vector Network Analyzer



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## ▶▶ Product Detail

VNA-3180 Vector Network Analyzer (cable and antenna analyzer) delivers lab grade performance in a handheld device. This patented (US Patent 9,291,657) analyzer can be connected directly to the antenna or other DUT without the need for a test cable, eliminating measurement uncertainties inherent to cables. Resulting in highly dependable performance and calibration stability. The 1-port VNA comes with all the features engineers have come to expect included standard in our software.

### **The VNA-3180 1-Port VNA is available with an IP54 add-on option:**

As defined in international standard IEC 60529, the Ingress Protection Rating classifies the degrees of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in electrical enclosures.

- **Online purchase:**  
You must add this add-on option to your cart before checkout
- **Requesting a Quote:**  
Please include your interest in this option when requesting a quotation

VNA-3180 includes an RF measurement module and R software application which runs on a Windows PC, laptop, or tablet, connecting to the measurement hardware via USB interface. R software can be installed on multiple computers that share the use of the analyzer measurement module. The handheld (R180 cable and antenna analyzer is powered and operated through USB connection to an external PC or an external 5V charger. The 3180 network analyzer can be used in the field, in the laboratory, and in production testing. The VNA can be integrated into production test system via Manufacturing Test plug-in.

VNAs and ACMs are delivered with factory calibration certificates containing no data. The add-on option for ISO17025/Z540-1 Accredited, Traceable Calibration Certificate and Uncertainties is available and needs to be specified at time of order.

## ►► Specification

Frequency range	1 MHz to 18 GHz
Measured parameters	S11 as Log magnitude, DTF, Smith, and more
Sweep types	linear frequency, log frequency, segment
Effective Directivity	42 dB
Measurement speed	100 $\mu$ s
Impedance	50 Ohm

## ►► Application

Due to its measurement accuracy, ultra-compact size and elimination of a test cable, the 3180 cable and antenna analyzer (reflectometer) can be used for antennas and antenna feeders in the field, as well as laboratory and production testing in a wide variety of industries including design and production of various IoT hardware components, materials testing, medical devices, aerospace applications, etc.

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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