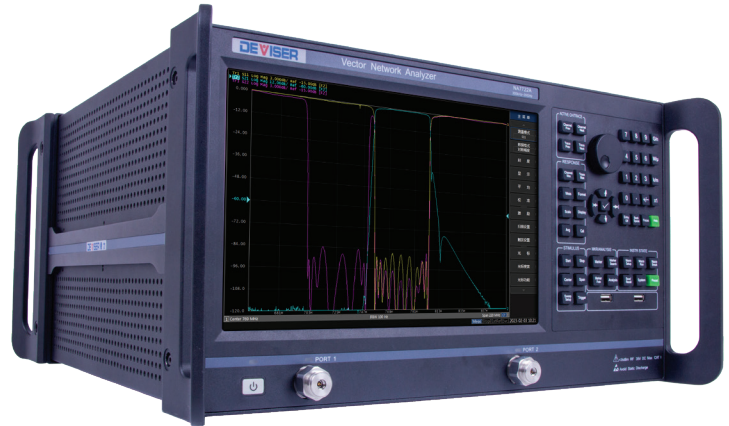


2/4-Port Series Vector Network Analyzer

Main Features

- 12.1" 1280x800 TFT touchscreen
- Wide frequency range: 300kHz to 20 GHz
- High dynamic range: 120dB (Typical)
- Trace noise: <15m dBrms
- Fast measurement speed: 40usec/ point
- Accurate error correction and calibration function
- Connect with other systems via USB, LAN, and GPIB ports
- Connect with MES system enables automated factory production testing



Overview

Brought to you by Deviser Instruments, NA7722/4A is the latest high performance Vector Network Analyzer with frequencies ranging from 300kHz to 20GHz. It features various calibration methods including 1-port calibration, response calibration, enhanced response calibration, and full dual-port calibration. The VNA supports multiple measurement formats such as log magnitude format, linear magnitude format, SWR, phase format, group delay format, Smith chart format, polar format and others. Equipped with standard interfaces like USB, LAN and GPIB, it also provides additional functionalities like time domain transformation, fixture simulation and TDR.

With its wide dynamic range ensuring comprehensive test capability and fast measurement speed guaranteeing efficient testing processes, the NA7722/4A delivers accurate error correction and precise calibration functions for reliable test accuracy. This versatile VNA finds extensive applications in fields such as mobile communication, radar, military operations, semiconductor industry, navigation systems, and scientific research & education for RF devices as well as component research & development and production testing.

12.1 inch 1280*800 TFT touch screen	36 channels 16 traces	Convenient user interface buttons menu and submenus	Convenient user interface buttons and menu
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Windows7 operating system

2/4 port design

2*USB 2.0

Specification

System performance		
System dynamic range	IFBW=10Hz (2-Port)	115dB (0.3MHz to 5MHz) 120dB (5MHz to 8.5GHz) 118dB (8.5GHz to 14GHz) 115dB (14GHz to 20GHz)
	IFBW =10Hz (4-Port)	110dB (0.3MHz to 5MHz) 115dB (5MHz to 8.5GHz) 113dB (8.5GHz to 14GHz) 110dB (14GHz to 20GHz)
Directivity		42dB (<3GHz) 38dB (3GHz to 8.5GHz) 37dB (8.5GHz to 14GHz) 36dB (14GHz to 20GHz)
Source match		37dB (<3GHz) 32dB (3GHz to 8.5GHz) 30dB (8.5GHz to 14GHz) 28dB (14GHz to 20GHz)
Load match		42dB (<3GHz) 38dB (3GHz to 8.5GHz) 37dB (8.5GHz to 14GHz) 36dB (14GHz to 20GHz)
Reflection tracking		±0.03dB (<3GHz) ±0.04dB (3GHz to 8.5GHz) ±0.05dB (8.5GHz to 14GHz) ±0.06dB (14GHz to 20GHz)
Transmission tracking		±0.035dB (<3GHz) ±0.06dB (3GHz to 8.5GHz) ±0.10dB (8.5GHz to 14GHz) ±0.15dB (14GHz to 20GHz)
Points		2 to 2001
Sweep time		40us/point
Test Port Output		
Frequency resolution		1Hz
CW accuracy		±2ppm (5°C to 40°C)
Phase noise @ 10kHz		-80dBc/Hz (< 8.5GHz) -77dBc/Hz (8.5GHz to 14GHz) -75dBc/Hz (14GHz to 20GHz)
Harmonics(2nd or 3rd) (@ +5dBm)		-20dBc (< 5MHz) -25dBc (5MHz to 8.5GHz) -20dBc (8.5GHz to 20GHz)
Level range		-60dBm to +8dBm (< 4.5GHz) -60dBm to +5dBm (4.5GHz to 8.5GHz) -60dBm to +3dBm (8.5GHz to 14GHz) -60dBm to 0dBm (14GHz to 20GHz)
Level resolution		0.05dB
Test Port Input		
Max leveled power		+10dBm (< 4.5GHz) +11dBm (4.5GHz to 8.5GHz) +10dBm (8.5GHz to 14GHz) +10dBm (14GHz to 20GHz)
Damaged level		+26dBm, ±35VDC

Noise floor	IFBW=10Hz (2-Port)	-105dBm (0.3MHz to 5MHz) -110dBm (5MHz to 8.5GHz) -108dBm (8.5GHz to 14GHz) -105dBm (14GHz to 20GHz)
	IFBW=10Hz (4-Port)	-100dBm (0.3MHz to 5MHz) -105dBm (5MHz to 8.5GHz) -103dBm (8.5GHz to 14GHz) -100dBm (14GHz to 20GHz)
Trace noise	Amplitude IFBW =70kHz	9m dBrms (< 4.5GHz) 12m dBrms (4.5GHz to 8.5GHz) 15m dBrms (8.5GHz to 14GHz) 20m dBrms (14GHz to 20GHz)
	Phase IFBW =70kHz	0.065°rms (< 4.5GHz) 0.09°rms (4.5GHz to 8.5GHz) 0.11°rms (8.5GHz to 14GHz) 0.15°rms (14GHz to 20GHz)
Stability	Amplitude	±0.005dB/°C (< 4.5GHz) ±0.01dB/°C (4.5GHz to 8.5GHz) ±0.02dB/°C (8.5GHz to 14GHz) ±0.04dB/°C (14GHz to 20GHz)
	Phase	±0.1°/°C (< 4.5GHz) ±0.2°/°C (4.5GHz to 8.5GHz) ±0.4°/°C (8.5GHz to 14GHz) ±0.8°/°C (14GHz to 20GHz)
Dynamic accuracy	Amplitude	±0.25 dB (10 dBm) ±0.1 dB (-30 dBm) ±2.0 dB (-90 dBm)
	Phase	±5° (10 dBm) ±0.5° (-30 dBm) ±15° (-90 dBm)
General		
	IFBW	10, 15, 20, 30, 40, 50, 70, 100, 150, 200, 300, 400, 500, 700, 1kHz, 1.5kHz, 2kHz, 3kHz, 4kHz, 5kHz, 7kHz, 10kHz, 15kHz, 20kHz, 30kHz, 40kHz, 50kHz, 70kHz, 100kHz, 150k, 200k, 300k, 400k, 500k, 700k, 1M, 1.5M, 2M, 3M, 4M, 5M
Front panel	Display	12.1" TFT color LCD, 1280*800 resolution, with touch screen
	RF interface	NMD3.5mm(f), 50Ω
	USB interface	USB2.0, Type A, 2pcs
Rear panel	External trigger input	Type BNC (f) Input level: 0.5V (low threshold), 2.1V (high threshold) Input level range: 0 ~ 5V Pulse width: ≥2us Polarity: positive or negative
	External reference input	Type: BNC (f) Input Frequency: 10MHz±10ppm Input level: -3~+10dBm
	Internal reference output	Type: BNC (f) Output frequency: 10MHz±1ppm Signal type: Sinewave Output level: 0dBm±3dB into 50Ω Output impedance: 50Ω
	Video output	15-pin mini D-Sub;female;drives VGA compatible monitors
	GPIB interface	24-pin D-Sub (Type D-24) ;female;compatible with IEEE-488
	USB-host port	USB2.0, Type A, 2pcs
	LAN	RJ-45, 2pcs 10/100/1000 BaseT Ethernet, auto selects between the two data rates
	Serial	9-pin D-Sub;male; compatible with RS232
	Parallel	25-pin D-Sub;female; LPT printer

Rear panel	Line power	Frequency: 47 to 63Hz Voltage: 90 to 264 VAC VA max: 150VA max
EMC	RF emission	EN 61326-1:2013 EN 61326-2-1:2013 CISPR 11:2009 CISPR 16-1 series Group 1, Class A
	Immunity	Test specification: EN 61326-1:2013 EN 61326-2-1:2013
	ESD	Test specification: IEC 61000-4-2:2008 ±4kV CD / ±8kV AD
	RF electromagnetic field	Test specification: IEC 61000-4-3:2006+A1+A2 3 V/m, 80-1000 MHz 80% AM, 1kHz
Safety		IEC 61010-1:2006 / EN 61010-1:2006
Operating environment	Temperature	+5°C to +40°C
	Error-corrected temperature	23°C ± 5°C
	Humidity	20% to 80%
	Altitude	0 to 2000m
	Vibration	0.21g maximum. 5Hz to 500Hz
Storage environment	Temperature	-10°C ~ +60°C
	Humidity	20%-90%
	Altitude	0~4572m
	Vibration	0.5g maximum, 5Hz to 500Hz
	Dimensions (W*H*D)	466mm * 245mm * 500mm
	Weight	15kg(2-Port); 19kg(4-Port)