

VNA4265
(100kHz~26.5GHz)

矢量网络分析仪

Vector Network Analyzer

Technical Specifications



深圳市极致汇仪科技有限公司
Shenzhen iTenest Technology Co., Ltd

文件编号:ITENEST-WI-YX-78/A

SYSTEM MEASUREMENT RANGE				
System Impedance		50Ω		
Test Port Connector Type		NMD 3.5mm, male		
Number of Test Ports		2 or 4		
Frequency Range		100kHz to 26.5GHz		
Frequency Setting Resolution		1Hz		
Output Power Range	100kHz to 2MHz	-55dBm to -10dBm		
	2MHz to 26.5GHz	-55dBm to +10dBm		
Power Setting Resolution		0.05dB		
Number of Measurement Points		2 to 20,001		
System Bandwidth(IFBW)		10Hz to 1.5MHz ^{Table 1}		
System Dynamic Range ¹ : (RF Range Fixed Mode=OFF) @IFBW=10Hz	100kHz to 500kHz	95dB		
	500kHz to 2MHz	110dB		
	2MHz to 5.8GHz	135dB		
	5.8GHz to 26.5GHz	132dB		
MEASUREMENT ACCURACY(UNCERTAINTY) ²				
Trace Noise: Meas. Power=Max Output Power				
Transmission	100kHz to 10MHz(IFBW=3kHz)	4mdB rms/0.03deg rms		
	10MHz to 6GHz(IFBW=70kHz)	4mdB rms/0.03deg rms		
	6GHz to 26.5GHz(IFBW=70kHz)	3mdB rms/0.02deg rms		
Reflection	100kHz to 10MHz(IFBW=3kHz)	5mdB rms/0.05deg rms		
	10MHz to 6GHz(IFBW=70kHz)	5mdB rms/0.03deg rms		
	6GHz to 26.5GHz(IFBW=70kHz)	3.5mdB rms/0.035deg rms		
CORRECTED SYSTEM EFFECTIVE DATA ²				
Description	100kHz to 2GHz	2GHz to 13.5GHz	13.5GHz to 20GHz	20GHz to 26.5GHz
Directivity	48 dB	44 dB	44 dB	44 dB
Source Match	40 dB	31 dB	31 dB	31 dB
Load Match	48 dB	44 dB	44 dB	44 dB
UNCORRECTED SYSTEM RAW DATA ³				
Description	100kHz to 2GHz	2GHz to 13.5GHz	13.5GHz to 20GHz	20GHz to 26.5GHz
Directivity	25 dB	15 dB	12 dB	12 dB
Source Match	25 dB	15 dB	15 dB	13 dB
Load Match	17 dB	10 dB	10 dB	10 dB
TEST PORT OUTPUT PERFORMANCE				
Power Accuracy	100kHz to 2MHz	±0.5 dB @-10dBm		
	2MHz to 26.5GHz	±0.5 dB @0dBm		
Power Linearity (Relative to 0dBm)	100kHz to 2MHz	±0.5 dB(-20dBm to -10dBm)		
	2MHz to 6GHz	±0.5 dB(-20dBm to +10dBm)		
	6GHz to 26.5GHz	±0.75 dB (-20dBm to +10dBm)		
Harmonic(2nd or 3rd)	100kHz to 2MHz	<-20dBc @-10dBm		
	2MHz to 26.5GHz	<-20dBc @0dBm		

Non-Harmonic Spurious	<-30dBc @Max Power	
CW Accuracy	±2ppm (23 °C±3 °C)	
Source Stability	±2ppm (5 °C±40 °C)	
TEST PORT INPUT PERFORMANCE		
Maximum Input Level	+10dBm	
Damage Level	+26dBm or ±35VDC	
Cross Talk	100kHz to 500kHz	-80dB
	500kHz to 2MHz	-100dB
	2MHz to 6GHz	-120dB
	6GHz to 20GHz	-110dB
	20GHz to 26.5GHz	-100dB
Noise Floor	100kHz to 500kHz	-115dBm/Hz
	500kHz to 2MHz	-130dBm/Hz
	2MHz to 5.8GHz	-135dBm/Hz
	5.8GHz to 26.5GHz	-132dBm/Hz
NON-TEST INPUT/OUTPUT PORT REQUIREMENTS		
External Reference Signal Input	Connector Type	BNC Female
	Input Frequency	10MHz±10ppm
	Input Level	Low Threshold Votage:0.5V High Threshold Votage:2.1V Input Level Range:0 to +5V
	Duty Cycle	40% to 60%
External Reference Signal Output	Connector Type	BNC Female
	Output Frequency	10MHz±2ppm
	Output Level	Low Level Votage:0V High Level Votage:5V
	Duty Cycle	40% to 60%
	Signal Type	TTL
External Trigger Input	Connector Type	BNC Female
	Input Level	Low Threshold Votage:0.5V High Threshold Votage:2.1V Input Level Range:0 to +5V
	Pulse Width	2µs
	Polarity	Positive or Negative
External Trigger Output	Connector Type	BNC Female
	Max Output Current	30mA
	Output Level	Low Level Votage:0V High Level Votage:5V
	Pulse Width	1µs
	Polarity	Positive or Negative
GENERAL AND ENVIRONMENT		
Display	12.1 inch multi touch screen LCD(1280 X 800)	
Operating Temperature	+5 °C to +40 °C	

Error-Corrected Temperature Range	23 °C(±5 °C) with <1 °C deviation from calibration temperature
Operating Humidity	20% to 80% at wet bulb temperature <+29 °C (non-condensation)
Storage Temperature	-10 °C to +60 °C
Storage Humidity	20% to 90% at wet bulb temperature <+40 °C (non-condensation)
Dimensions	Unit with Handle:482.6mm W x 404mm D x 265.9mm H Unit without Handle: 482.6mm W x 380mm D x 265.9mm H
Weight	21Kg
Power Requirements	90 to 264VAC, 47 to 63Hz
Power Consumption	<180W(maximum)
EMC	EN 61326-1:2005 EN 55011:2007 Group 1, Class A EN 61000-4-2:1995 +A2:2001 4kV CD/8kV AD EN 61000-4-3:2006 EN 61000-4-4:2004 EN 61000-4-5:2006 EN 61000-4-6:2007 3V, 0.15-80 MHz, 80% AM EN 61000-4-11:2004 0.5-300 cycle, 0%/70%
Safety	EN 61010-1:2001 Measurement Category I Pollution Degree 2 Indoor Use
Recommended Calibration Cycle	12 months
Warranty	36 months hardware 36 months software update

1. If RF Range Fixed Mode=ON, performance may be degrade by 10dB.

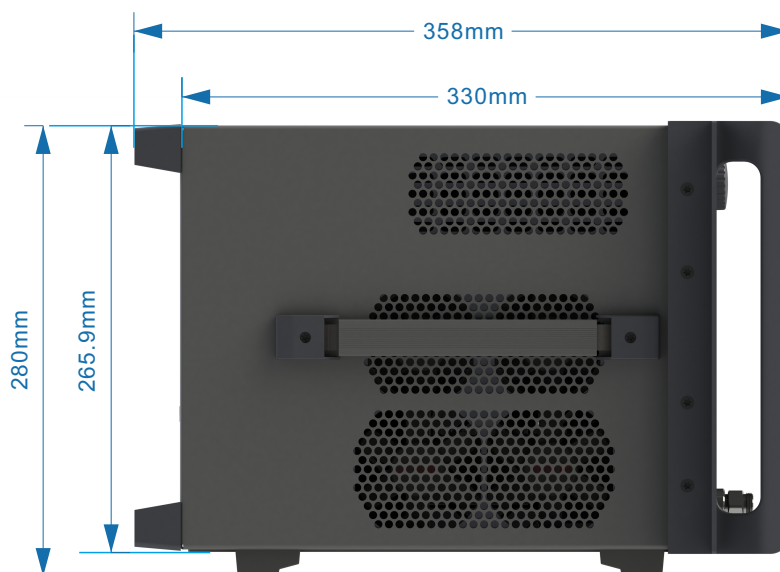
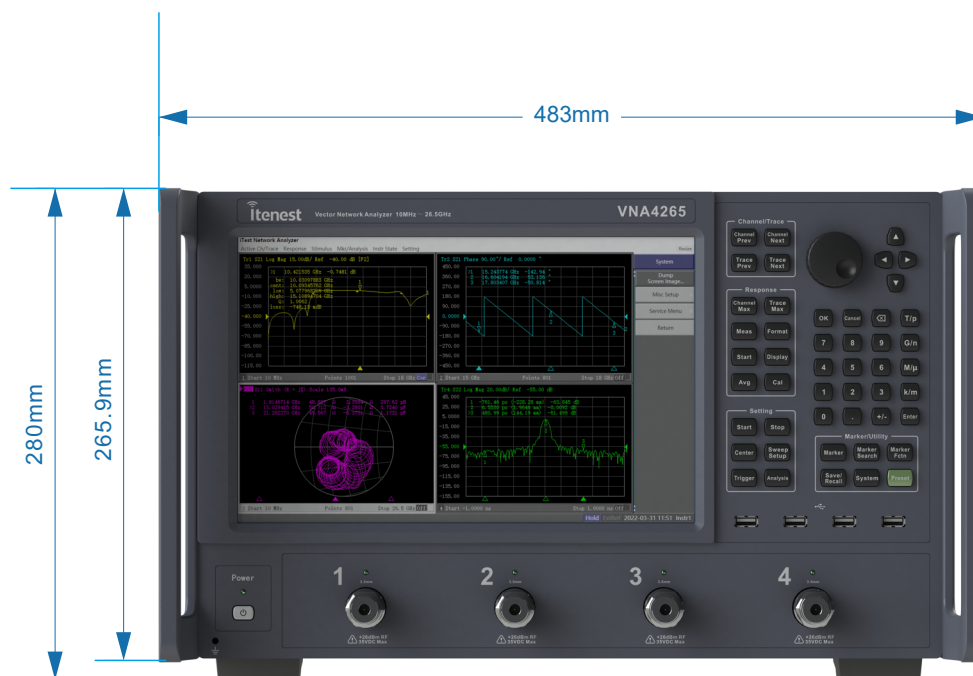
2. Using Cal Kit:85052B(3.5mm 50Ω) for full 2-port calibration. And IF bandwidth = 10 Hz, no averaging applied to data, environmental temperature= 23°C(±5°C) with < 1°C deviation from calibration temperature, isolation calibration performed.

3. User correction: OFF, system correction: ON

4. All specifications apply at 23 °C (±5 °C), unless otherwise stated, and 90 minutes after the instrument has been turned on.

Table 1.

IFBW Nominal settings	10,15,20,30,40,50,70,100,150,200,300,400,500,700,1k,1.5k,2k,3k,4k,5k, 7k,10k,15k,20k,30k,40k,50k,70k,100k,150k,200k,300 k,400k,500kHz,700 kHz,1MHz,1.5MHz
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深圳市极致汇仪科技有限公司 SHENZHEN ITEST TECHNOLOGY CO.,LTD

地址：深圳市宝安区新安街道兴东社区67区留芳路6号庭威产业园1号楼5C
电话：+86-755-2153 5646
传真：+86-755-2640 5551
销售部邮箱：wtsales@itenest.com
技术服务邮箱：support@itenest.com
www.itenest.com

台湾办事处

地址：新北市土城区中央路三段87号7楼
电话：+886-2-2269 2007
传真：+886-2-2269 2036

西南办事处

地址：成都市武侯区武兴五路77号智领大厦
二单元2楼201室
电话：+86 187 8346 0417

华东办事处

地址：苏州市高新区邓尉路9号润捷广场北楼803室
电话：+86 180 6193 4935

华中办事处

地址：武汉市江夏区滨湖路佩尔中心B座11楼
电话：+86 186 0714 9336

