



- Ultra-Real technology
- Frequency: up to 6.5 GHz
- Displayed average noise level (DANL): <-165 dBm (typical)
- Phase noise: <-108 dBc/Hz (typical)
- Level measurement uncertainty: <0.8 dB
- 6.5 GHz tracking generator
- Min. RBW 1 Hz
- Up to 40 MHz real-time analysis bandwidth
- Multiple measurement modes
- Various advanced measurement functions
- Vector signal analysis measurement application (option)
- EMI measurement application (option)
- Multiple trigger modes and trigger masks
- Density, spectrogram, and other display modes
- PC software options
- 10.1" capacitive multi-touch screen, supporting touch gestures
- USB, LAN, HDMI and other communication and display interfaces



RSA5000 Series Real-time Spectrum Analyzer



Built-in Linux operating system reliable and stable interface

Product Dimensions: Width × Height × Depth = 410 mm × 224 mm × 135 mm



Based on the Ultra-Real technology, the high-speed real-time measurement mode allows you to acquire the signals in the analysis bandwidth seamlessly and make data analysis. It also provides various display modes, such as Spectrogram, Density, and PVT. Besides, FMT function is also available.

The Ultra-Real technology has the following features:

- Seamless analysis
- Seamless I/Q data acquisition in the analysis bandwidth
- Seamless spectrum analysis
- FMT
- Frequency mask trigger (FMT) to trigger the measurement by sporadic or transient events in the spectrum

· Composite displays

- Spectrogram for gap-free display of the spectrum
- Density for you to visualize how frequently signals occur

Specifications

Specifications are valid under the following conditions: the instrument is within the calibration period, is stored for at least two hours at 0°C to 50°C temperature, and is warmed up for 40 minutes. Unless otherwise noted, the specifications in this manual include the measurement uncertainty.

Typical: characteristic performance, which 80 percent of the measurement results will meet at room temperature (approximately 25°C). This data is not warranted and does not include the measurement uncertainty.

Nominal: the expected mean or average performance or a designed attribute (such as the 50 Ω connector). This data is not warranted and is measured at room temperature (approximately 25°C).

Measured: an attribute measured during the design phase which can be compared to the expected performance, such as the amplitude drift variation with time. This data is not warranted and is measured at room temperature (approximately 25°C).

NOTE: All charts in this manual are the measurement results of multiple instruments at room temperature unless otherwise noted. The specifications (except the tracking generator specifications) listed in this manual are those when the tracking generator is off.

Measurement Mode

Measurement Mode
General-Purpose Spectrum Analyzer (GPSA)
Real-time Spectrum Analyzer (RTSA)
Vector Signal Analysis Measurement Application (VSA) Option RSA5000-VSA
EMI Measurement Application (EMI) Option RSA5000-EMI

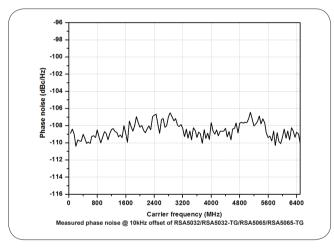
All Measurement Modes

Frequency							
		RSA5032	RSA5032-TG	RSA5065	RSA5065-TG		
Frequency Range		9 kHz to 3.2 GHz		9 kHz to 6.5 GH	Z		
Internal Reference	Frequency						
Reference Frequen	су	10 MHz					
Accuracy ±[(time since last calibration × aging rate) + temperature stability + calibrat			y + calibration accuracy]				
Initial Calibration	Standard	<1 ppm	<1 ppm				
Accuracy	Option OCXO-C08	<0.1 ppm	<0.1 ppm				
_	$0^\circ C$ to $50^\circ C$, with the reference $25^\circ C$						
Temperature Stability	Standard	<0.5 ppm	<0.5 ppm				
Oldonity	Option OCXO-C08	<0.005 ppm	<0.005 ppm				
Aging Rate	Standard	<1 ppm/year	<1 ppm/year				
	Option OCXO-C08	<0.03 ppm/year	<0.03 ppm/year				

GPSA Mode

Frequency

Frequency Reado	out Accuracy	
Marker Frequency	y Resolution	span/(number of sweep points - 1)
Marker Frequency Uncertainty		±(marker frequency readout × reference frequency accuracy + 1% × span + 10% × resolution bandwidth + marker frequency resolution)
Frequency Count	er	
Resolution		1 Hz
Uncertainty		±(marker frequency readout × reference frequency accuracy + counter resolution)
Frequency Span		
Range		0 Hz, 10 Hz to maximum frequency
Resolution		2 Hz
Uncertainty		±span/(number of sweep points - 1)
SSB Phase Noise	;	
		20°C to 30°C,fc = 500 MHz
	1 kHz	<-95 dBc/Hz (typical)
Corrier Offeet	10 kHz	<-106 dBc/Hz, <-108 dBc/Hz (typical)
Carrier Offset	100 kHz	<-106 dBc/Hz, <-108 dBc/Hz (typical)
	1 MHz	<-115 dBc/Hz, <-117 dBc/Hz (typical)



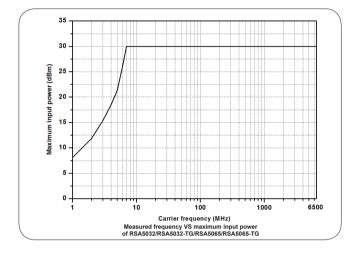
Residual FM				
	20℃ to 30℃ , RBW = VBW = 1 kHz			
Residual FM	<10 Hz (nominal)			
Bandwidth				
	Set "Sweep Time Rule" to "Accy"			
Resolution Bandwidth (-3 dB) ^[1]	1 Hz to 10 MHz, in 1-3-10 sequence			
RBW Accuracy	<5% (nominal)			
Resolution Filter Shape Factor (60 dB: 3 dB)	<5 (nominal)			
Video Bandwidth (-3 dB)	1 Hz to 10 MHz, in 1-3-10 sequence			
Resolution Bandwidth (-6 dB)	200 Hz, 9 kHz, 120 kHz, 1 MHz			

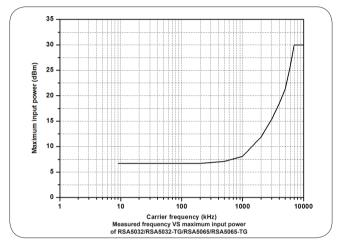
Amplitude

Measurement Range			
Danas	$f_{C} \ge 10 \text{ MHz}$		
Range	DANL to +30 dBm		
Maximum Safe Input Level ^[1]			
DC Voltage 50 V			
	+30 dBm, attenuation ≥ 40 dB, preamp off.		
CW RF Power	-10 dBm, attenuation = 20 dB, preamp on.		
Maximum Damage Level			

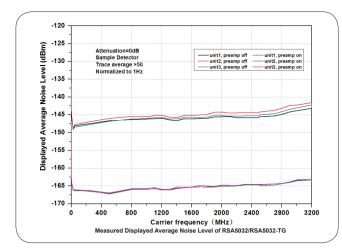
Maximum Damage Level
CW RF Power

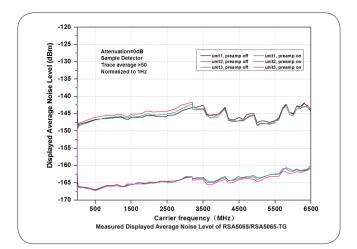
+33 dBm (2 W)



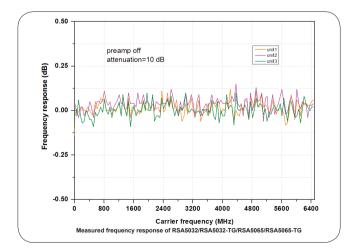


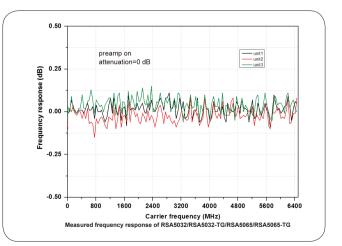
Displayed Ave	erage Noise Level (DANL)					
		RSA5032	RSA5032-TG	RSA5065	RSA5065-TG	
			ample detector, trace a $0^\circ\!\!\mathbb{C}$ to $30^\circ\!\!\mathbb{C}$, input imp	verages ≥ 50, tracking g edance = 50 Ω.	jenerator off,	
	9 kHz to 100 kHz	<-120 dBm (typical)		<-120 dBm (typical)		
Preamp off	100 kHz to 20 MHz	<-135 dBm, <-140 dB	sm (typical)	<-135 dBm, <-140 dB	m (typical)	
	20 MHz to 1.5 GHz	<-142 dBm, <-145 dB	sm (typical)	<-142 dBm, <-145 dB	<-142 dBm, <-145 dBm (typical)	
	1.5 GHz to 2.7 GHz	<-140 dBm, <-143 dB	<-140 dBm, <-143 dBm (typical)		<-140 dBm, <-143 dBm (typical)	
	2.7 GHz to 3.2 GHz	<-138 dBm, <-141 dB	sm (typical)	<-138 dBm, <-141 dB	m (typical)	
	3.2 GHz to 5.5 GHz			<-138 dBm, <-143 dB	m (typical)	
	5.5 GHz to 6.5 GHz			<-136 dBm, <-141 dB	m (typical)	
	100 kHz to 20 MHz	<-152 dBm, <-160 dB	<-152 dBm, <-160 dBm (typical)		m (typical)	
	20 MHz to 1.5 GHz	<-162 dBm, <-165 dB	<-162 dBm, <-165 dBm (typical)		m (typical)	
Broomn on	1.5 GHz to 2.7 GHz	<-160 dBm, <-163 dB	<-160 dBm, <-163 dBm (typical)		m (typical)	
Preamp on	2.7 GHz to 3.2 GHz	<-158 dBm, <-161 dB	<-158 dBm, <-161 dBm (typical)		<-158 dBm, <-161 dBm (typical)	
	3.2 GHz to 5.5 GHz			<-156 dBm, <-161 dB	m (typical)	
	5.5 GHz to 6.5 GHz			<-154 dBm, <-159 dB	m (typical)	



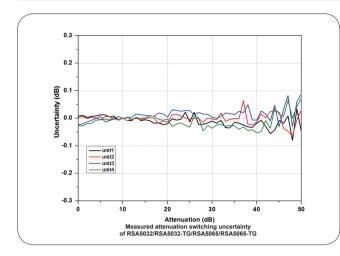


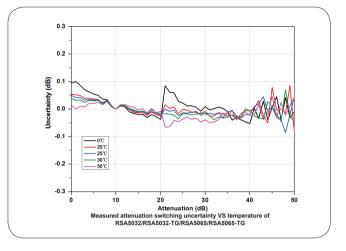
Level Display						
Logarithmic S	cale	1 dB to 200 dB				
Linear Scale		0 to reference le	vel			
Number of Dis	splay Points	801				
Number of Tra	aces	6				
Trace Detecto	or	normal, pos-pea	k, neg-peak, sample, RMS	S average, voltage aver	age, and quasi-peak	
Trace Functio	n	clear write, max	hold, min hold, average, v	iew, blank		
Scale Unit		dBm, dBmV, dB	dBm, dBmV, dBμV, nV, μV, mV, V, nW, μW, mW, W			
Frequency Re	esponse					
		RSA5032	RSA5032-TG	RSA5065	RSA5065-TG	
		attenuation = 10	dB, relative to 50 MHz, 20	0℃ to 30℃		
Dragona off	100 kHz to 3.2 GHz	<0.5 dB, <0.3 dE	3 (typical)	<0.5 dB, <0.3 dB	(typical)	
Preamp off	3.2 GHz to 6.5 GHz	<0.7 dB, <0.5 dB (typical)		(typical)		
attenuation = 0 dB, relative to 50 MHz, 20°C to 30°C						
_ 100 kHz to 3.2 GHz		<0.7 dB, <0.3 dE	3 (typical)	<0.7 dB, <0.3 dB	(typical)	
Preamp on	3.2 GHz to 6.5 GHz			<0.9 dB, <0.5 dB	<0.9 dB, <0.5 dB (typical)	





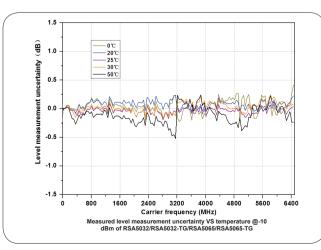
Input Attenuation Switching Uncertainty		
Setting Range 0 dB to 50 dB, in 1 dB step		
Switching Lineartainty	f_c = 50 MHz, relative to 10 dB, preamp off, 20 $^\circ C$ to 30 $^\circ C$	
Switching Uncertainty	<0.3 dB	



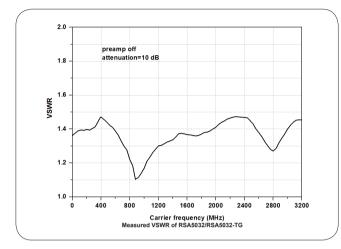


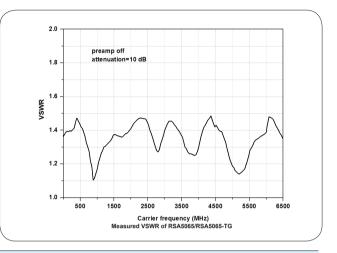
Absolute Amplitude Accuracy

Absolute A	Inplitude Accuracy					
Uncertainty		f _c = 50 MHz, pea 30℃	f_{C} = 50 MHz, peak detector, preamp off, attenuation = 10 dB, input signal level = -10 dBm, 20 $^{\circ}{\rm C}$ to 30 $^{\circ}{\rm C}$			
		<0.3 dB				
Reference	Level					
Dener	Logarithmic Scale	-170 dBm to +30	dBm, in 0.01 dB step			
Range	Linear Scale	707 pV to 7.07 V,	0.11% (0.01 dB) resolut	tion		
RBW Switc	hing					
		Set "Sweep Time	Rule" to "Accy", relative	to 30 kHz RBW		
Uncertainty	/	1 Hz to 1 MHz	1 Hz to 1 MHz		<0.1 dB	
		3 MHz, 10 MHz	3 MHz, 10 MHz		<0.3 dB	
Preamp (C	Option RSA5000-PA)			I		
		RSA5032	RSA5032-TG	RSA5065	RSA5065-TG	
Frequency	Range	100 kHz to 3.2 G	Hz	100 kHz to 6.5 GH	00 kHz to 6.5 GHz	
Gain		20 dB (nominal)				
Level Meas	surement Uncertainty	1				
		95% confidence level, S/N > 20 dB, RBW = VBW = 1 kHz, preamp off, attenuation = 10 dB, -50 dBm < input level \leq 0 dBm, f _c > 10 MHz, 20°C to 30°C				
Level Meas	surement Uncertainty	<0.8 dB (nominal)				



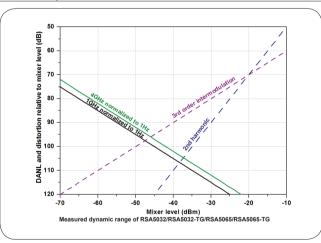
RF Input VSWR					
		RSA5032	RSA5032-TG	RSA5065	RSA5065-TG
		attenuation ≥10 dB, preamp off			
VSWR	300 kHz to 3.2 GHz	<1.6 (nominal)		<1.6 (nominal)	
VSWR	3.2 GHz to 6.5 GHz			<1.8 (nominal)	





Distortion

Second Harmonic Intercept (SHI)	$f_c \ge 50$ MHz, input signal level = -20 dBm, attenuation = 0 dB, preamp off.
	+45 dBm
Third-order Intercept (TOI)	$f_{\rm C} \ge 50$ MHz, two -20 dBm tones at input mixer spaced by 200 kHz, attenuation = 0 dB, preamp off.
	+11 dBm, +15 dBm (typical)
1 dB Gain Compression (P1dB) ^[1]	$f_c \ge 50 \text{ MHz}$, attenuation = 0 dB, preamp off.
	0 dBm (nominal)



Spurious Response input terminated with a 50 Ω load, attenuation = 0 dB, 20°C to 30°C Residual Response input terminated with a 50 Ω load, attenuation = 0 dB, 20°C to 30°C Intermediate Frequency <-90 dBm, <-100 dBm (typical)</td> Intermediate Frequency <-60 dBc</td> System-related Sideband referenced to local oscillators, referenced to A/D conversion, referenced to subharmonic of first LO Input-related Spurious mixer level = -30 dBm <-60 dBc</td>

Note: [1] The frequency interval of the two-tone signals should be greater than 10 MHz. 8 **RIGOL**

Sweep

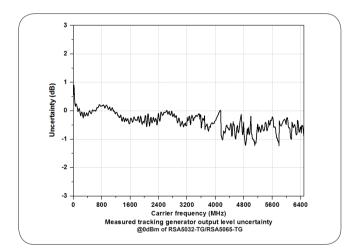
Sweep	Sweep			
Sweep Time	span ≥ 10 Hz	1 ms to 4,000 s		
Sweep Time	zero span	1 µs to 6,000 s		
Sween Time	span ≥ 10 Hz, RBW ≥ 1 kHz	5% (nominal)		
Sweep Time Uncertainty	zero span (sweep time > 1 ms)	5% (nominal)		
Sweep Mode		continue, single		

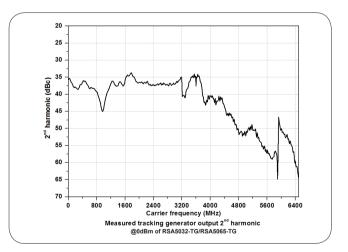
Trigger

Trigger				
Trigger Source		free run, external 1, external 2, video		
Trigger Delay	span ≥ 10 Hz	0 to 500 ms		
Trigger Delay	zero span	0 to 500 ms		

Tracking Generator

Tracking Generator Output					
	RSA5032	RSA5032-TG	RSA5065	RSA5065-TG	
Frequency Range	-	100 kHz to 3.2 GHz	-	100 kHz to 6.5 GHz	
Output Level Range	-	-40 dBm to 0 dBm	-	-40 dBm to 0 dBm	
Output Level Resolution	-	1 dB	-	1 dB	
Output Flatness	relative to 50 MHz				
	-	±3 dB (nominal)	-	±3 dB (nominal)	





RTSA Mode

Real-time Analysis Bandwidth	25 MHz					
Real-time Analysis Dandwidth	40 MHz (Option	n RSA5000-B40)				
Min. Signal Duration for 100% POI at	maximum span	ı, default Kaiser v	vindow			
the Full-Scale Accuracy	7.45 µs					
Trace Detector	pos-peak, neg-	peak, sample, av	verage			
Number of Traces	6					
Window Type	Hanning, Black	man-Harris, Rec	tangular, Flattop	, Kaiser, and G	aussian	
	provides 6 RBWs for each window, except the Rectangular; for Kaiser window					
	Span		Min. bandwidth		Max. bandwidth	
	40 MHz		100 kHz		3.21 MHz	
Resolution Bandwidth	25 MHz		62.8 kHz		2.01 MHz	
	10 MHz		25.1 kHz		804 kHz	
	1 MHz		2.51 kHz		80.4 kHz	
	100 kHz		251 Hz		8.04 kHz	
Max. Sample Rate	51.2 MSa/s		1		I	
FFT Rate	146,484/s (norr	minal)				
Number of Markers	8					
Amplitude Resolution	0.01 dB					
Frequency Point	801					
	Max. sample ra	ate				
Acquisition Time	>156.5 µs					
Min. Signal Duration for 100% POI at Diff	· ·					
•	Duration Time	(µs)				
Span	RBW1	RBW2	RBW3	RBW4	RBW5	RBW6
40 MHz	26.9	16.9	11.9	9.32	8.07	7.45
25 MHz	38.9	22.9	14.9	10.9	8.82	7.82
10 MHz	86.8	46.8	26.8	16.8	11.8	9.30
1 MHz	807	407	207	107	56.3	31.3
Amplitude	1		1		I	
Amplitude Flatness	±0.5 dB ^[1] (nom	inal)				
SFDR	<-60 dBc (typic					
UltraReal Density		,				
Probability Range	0 to 100% (with	n a step of 0.1%)				
Min. Span	5 kHz	0 to 100% (with a step of 0.1%) 5 kHz				
Persistence Duration	32 ms to 10 s					
UltraReal Spectrogram						
History Depth	8,192					
Dynamic Range Covered by Bitmap Color						
UltraReal PVT	<u>.</u>					
Min. Acquisition Time	187.9 µs					
Max. Acquisition Time	40 s					
Trigger						
Trigger Source	free run, extern	al 1, external 2, p	power (time), FM	IT		
Ultrareal FMT						
	density, spectrogram, normal, PVT					
Trigger Diagram	density, spectro	ogram, normal, P	VT			
	density, spectro 0.5 dB (nomina	-	VT			

Note:[1] Only applicable to the Normal measurement.

10 **RIGOL**

VSA Mode (Option RSA5000-VSA)

	<u> </u>	· ·				
Capture Oversan						
Capture Oversan	npling	4, 8, 16				
Capture Length						
Capture Oversan	npling = 4	Maximum 4096				
Capture Oversan	npling = 8	Maximum 2048				
Capture Oversan	npling = 16	Maximum 1024				
Sample Rate						
Maximum Samol	o Rato	32 MHz				
Maximum Sample Rate		51.2 MHz (Option RSA5000-B40)				
Symbol Rate						
Symbol Rate		depends on capture oversampling				
Symbol Rate		= sample rate/capture oversampling, ≥1 kHz				
Usable I/Q Bandy	width					
Usable I/Q Bandy	width	symbol rate × capture oversampling / 1.28				
Trigger Mode						
Trigger Mode		free run, external1, external2, power (time), FMT				
Modulation Form	at					
FSK		2FSK, 4FSK, 8FSK,				
MSK		including GMSK, can select differential coding or not				
PSK		BPSK, QPSK, OQPSK, DQPSK, π/4-DQPSK, 8PSK, D8PSK, π/8-D8PSK				
QAM		16QAM, 32QAM, 64QAM				
ASK		2ASK, 4ASK				
Filter Type						
Measurement Fil	ter Type	No Filter, RRC, Gaussian, Rectangular, User Defined				
Reference Filter	Туре	Raised Cosine, RRC, Gaussian, Rectangular, Half Sine, User Defined				
Predefined stand	lard					
Cellular		GSM, NADC, WCDMA, PDC, PHP (PHS)				
Wireless Network	king	Bluetooth, WLAN (802.11b), ZigBee				
Others		TETRA, DECT, APCO-25				
Measurement Ur	ncertainty					
		Specifications apply under the following conditions:				
		temperature from +20 °C to +30 °C				
		signal level ≥ -25 dBm				
		properly adjusted reference level				
		offset between device's center frequency and signal's center frequency smaller than 5 % of symbol rate Random data sequence				
		Capture oversampling is set to 4.				
Residual Error fo	r QPSK					
Tost Signal		The reference filter is RRC with rolloff factor 0.22. The measurement filter is RRC with rolloff factor				
Test Signal		0.22. The result length is 150 symbol. The center frequency is 1 GHz.				
		Residual EVM RMS				
Symbol Poto	100 kHz	< 1.5% (nominal)				
Symbol Rate	1 MHz	< 2% (nominal)				
Residual Error fo	or FSK					
Test Signal		The reference filter is RRC with rolloff factor 0.22. The measurement filter is RRC with rolloff factor 0.22. The FSK reference deviation is a quarter of the symbol rate. The result length is 150 symbol.				
Test Signal		The center frequency is 1 GHz.				
		Residual Frequency Error RMS				
	100 kHz	< 2% (nominal)				
Symbol Rate	1 MHz	< 2.5% (nominal)				

EMI Mode (Option RSA5000-EMI)

EMI Resolution Bandwidth					
Resolution Bandwidth (-3 dB)	100 Hz to 10 MHz, in 1-3-10 sequence				
Resolution Bandwidth (-6 dB) 200 Hz, 9 kHz, 120 kHz, 1 MHz					
EMI Detector					
Detector	pos-peak, neg-peak, average, quasi-peak, CISPR average, RMS average				
EMI Key Feature					
	CISPR 16-1-1 detectors				
	CISPR 16-1-1 bandwidths				
	log and linear display				
	signal table				
	scan table				
Key Feature	simultaneous detectors				
	automatic limit testing				
	measure at marker				
	delta to limit				
	step and swept scans				
	report generation				

General Specifications

Display					
Display Type		capacitive multi-touch screen			
Type Resolution		1024 × 600 pixels			
		10.1"			
Size Color		24-bit color			
Printer Supported					
Protocol		network printer			
Mass Memory					
wass wemory	Internal Storage	512 MB (nominal)			
Mass Memory	External Storage	USB storage device (not supplied)			
Power	External Storage				
	۸۰	100 V to 240 V (nominal)			
Input Voltage Range,	AC	45 Hz to 440 Hz			
AC Frequency					
Power Consumption		55 W (typical), max. 90 W with all options			
Environment					
Temperature	Operating Temperature Range	0°C to 50℃			
Tomporataro	Storage Temperature Range	-20°C to 70°C			
Lunaidity	0°C to 30°C	≤95% RH			
Humidity	30℃ to 40℃	≤75% RH			
Altitude	Operating Height	below 3,048 m (10,000 feet)			
Electromagnetic Co	mpatibility and Safety				
	complies with EMC Directive 2014/30/EU, complies with or above the standard specified in IEC61326-1:2013/EN61326-1:2013 Group 1 Class A				
	CISPR 11/EN 55011 IEC 61000-4-2:2008/EN				
	61000-4-2	±4.0 kV (contact discharge), ±8.0 kV (air discharge)			
	IEC 61000-4-3:2002/EN 61000-4-3	N 3V/m (80 MHz to 1 GHz); 3V/m (1.4 GHz to 2 GHz); 1V/m (2.0 GHz to 2.7 GHz)			
EMC	IEC 61000-4-4:2004/EN 61000-4-4	1 kV power			
	IEC 61000-4-5:2001/EN 61000-4-5	0.5 kV (phase-to-neutral voltage); 1 kV (phase-to-earth voltage); 1 kV (neutral-to-earth voltage)			
	IEC 61000-4-6:2003/EN 61000-4-6	3 V, 0.15 to 80 MHz			
	IEC 61000-4-11:2004/ EN 61000-4-11	voltage dip: 0% UT during half cycle; 0% UT during 1 cycle; 70% UT during 25 cycles short interruption: 0% UT during 250 cycles			
Safety		complies with IEC 61010-1:2010 (Third Edition)/EN 61010-1:2010, UL 61010-1:2012 R4.16 and CAN/CSA-C22.2 No. 61010-1-12+ GI1+ GI2			
Environmental Stress		Samples of this product have been type tested in accordance with RIGOL's reliability test regulations and verified to be robust against the environmental stresses of storage, transportation, and end-use; those stresses include, but are not limited to, temperature, humidity, shock, and vibration. The test methods are compliant with standards specified GB/T6587 Class 2 and MILPRF-28800F Class 3.			
Size		·			
(W x H x D)		410 mm × 224 mm × 135 mm (16.14" × 8.82" × 5.32")			
Weight					
Without Tracking Gen	erator	4.65 kg (10.25 lb)			
With Tracking Genera		4.95 kg (10.91 lb)			
Calibration Interval					
Recommended Calibi	ration Interval	18 months			

Input/Output

Front Panel Connector	1				
RF Input	Impedance		50 Ω (nominal)		
	Connector		N-type female		
TC Output	Impedance		50 Ω (nominal)		
TG Output	Connector		N-type female		
Internal/External Reference					
	Frequency		10 MHz		
Internal Reference	Output Level		+3 dBm to +10 dBm, +7 dBm (typical)		
	Impedance		50 Ω (nominal)		
	Connector		BNC female		
	Frequency		10 MHz ± 5 ppm		
External Reference	Input Level		0 dBm to +10 dBm		
External Reference	Impedance		50 Ω (nominal)		
	Connector		BNC female		
External Trigger Input/Output					
	Impedance		≥1 kΩ (nominal)		
External Trigger Input 1	Connector		BNC female		
	Level		5 V TTL level		
	lass adama a	on trigger input	≥1 kΩ (nominal)		
	Impedance	on trigger output	50 Ω (nominal)		
External Trigger Input 2/Trigger Output	Connector		BNC female		
	Level		5 V TTL level		
IF Output	- 4				
	Frequency		430 MHz ± 20 MHz (nominal)		
	Amplitude		RF input power (PRFin) ≤ -10 dBm, attenuation = 0 preamp off.		
IF Output			50MHz, P _{RFin} ± 4 dB (nominal) other frequency, P _{RFin} ± 4 dB + RF frequency resp (nominal)		
	Impedance		50 Ω (nominal)		
	Connector		SMB male		
Communication Interface					
	Connector		A plug		
USB Host (4 ports)	Protocol		version 2.0		
	Connector		B plug		
USB Device	Protocol		version 2.0		
	Connector		100/1000Base, RJ-45		
LAN	Protocol		LXI Core 2011 Device		
	Connector		A plug		
HDMI	Protocol		HDMI 1.4b		

Order Information

	Description	Order No .
	Real-time Spectrum Analyzer, 9 kHz to 3.2 GHz	RSA5032
Model	Real-time Spectrum Analyzer, 9 kHz to 6.5 GHz	RSA5065
	Real-time Spectrum Analyzer, 9 kHz to 3.2 GHz (with TG installed when leaving the factory)	RSA5032-TG
	Real-time Spectrum Analyzer, 9 kHz to 6.5 GHz (with TG installed when leaving the factory)	RSA5065-TG
Standard	Quick Guide (hard copy)	-
Accessories	Power Cable	-
	Vector Signal Analysis Measurement Application	RSA5000-VSA
	EMI Measurement Application	RSA5000-EMI
	Preamplifier (PA)	RSA5000-PA
	High Stability Clock	OCXO-C08
Option	Real-time/Analysis Bandwidth 40 MHz	RSA5000-B40
	Advanced Measurement Kit	RSA5000-AMK
	Spectrum Analyzer PC Software	Ultra Spectrum
	EMI Pre-compliance Test Software	S1210 EMI Pre-compliance Software
	Include: N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75 Ω -50 Ω adaptor, 900 MHz/1.8 GHz antenna (2pcs), 2.4 GHz antenna (2pcs)	DSA Utility Kit
	Include: N(F)-N(F) adaptor (1pcs), N(M)-N(M) adaptor (1pcs), N(M)-SMA(F) adaptor (2pcs), N(M)-BNC(F) adaptor (2pcs), SMA(F)-SMA(F) adaptor (1pcs), SMA(M)-SMA(M) adaptor (1pcs), BNC T type adaptor (1pcs), 50 Ω SMA load (1pcs), 50 Ω BNC impedance adaptor (1pcs)	RF Adaptor Kit
	Include: 50 Ω to 75 Ω adaptor (2pcs)	RF CATV Kit
	Include: 6 dB attenuator (1pcs), 10 dB attenuator (2pcs)	RF Attenuator Kit
Optional	30 dB high-power attenuator, with the max power of 100 W	ATT03301H
Accessories	N(M)-N(M) RF Cable	CB-NM-NM-75-L-12G
	N(M)-SMA(M) RF Cable	CB-NM-SMAM-75-L-12G
	VSWR Bridge, 1 MHz to 3.2 GHz	VB1032
	VSWR Bridge, 2 GHz to 8 GHz	VB1080
	Near-field Probe	NFP-3
	Rack Mount Kit	RM6041
	USB Cable	CB-USBA-USBB-FF-150

Warranty

Three years for the mainframe.

