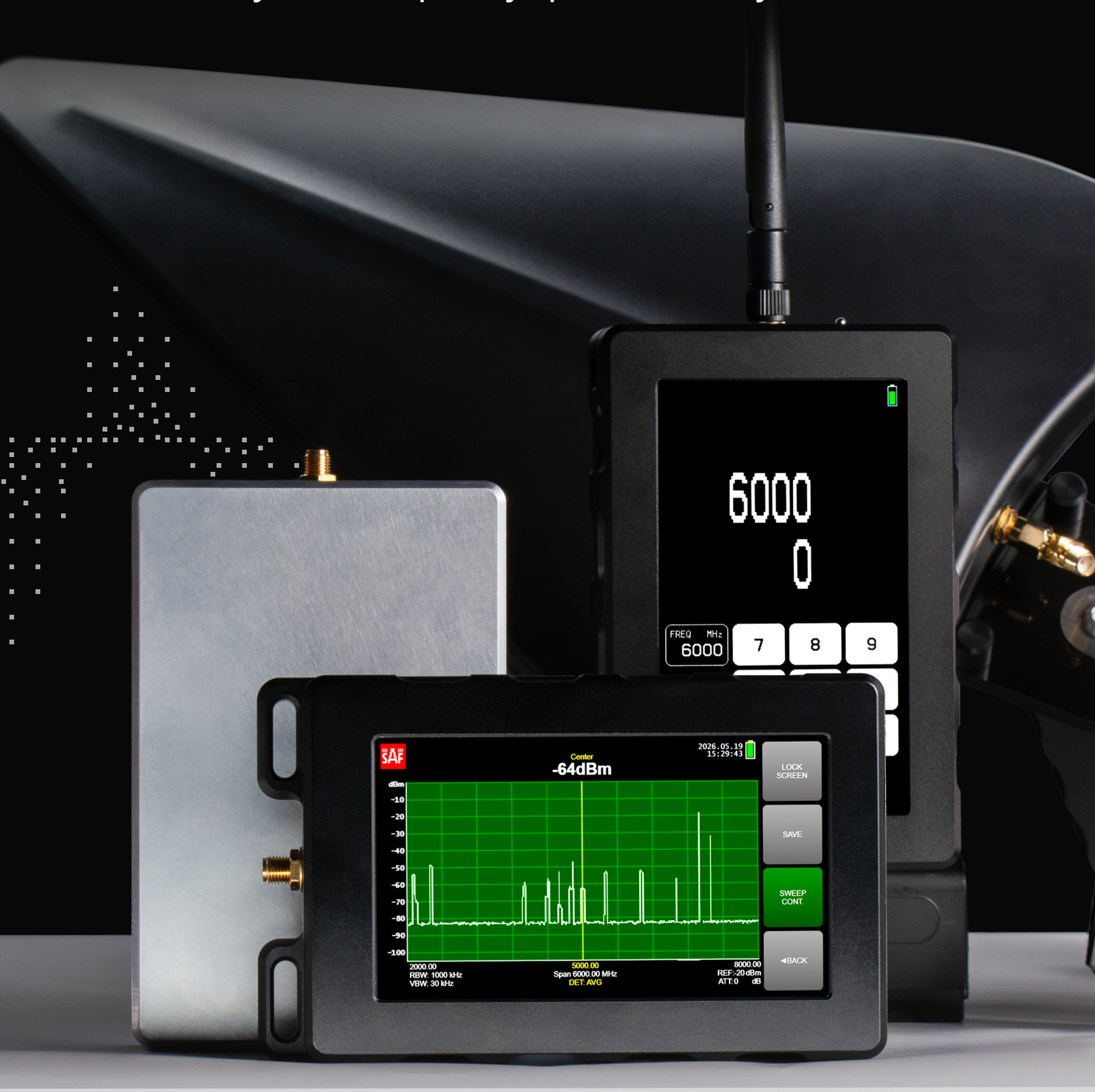
Spectrum Compact Series

Field-ready radio frequency spectrum analyzers



PRODUCT OVERVIEW

Spectrum Compact

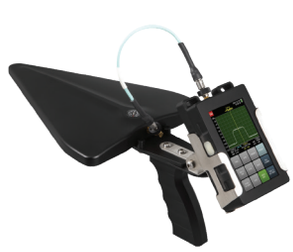
Spectrum analyzers

- Designed to operate outdoors
- Essential tool for interference detection, site survey and path alignment
- IP54 rated and tested
- Stand-alone tool with great battery life
- Resistive LCD touchscreen allows working with gloves on
- Instant On/Off functionality with simple, intuitive controls
- Market leading receiver sensitivity

Frequency range	0.01 – 3.0 GHz	2.0 – 8.0 GHz	5.925 – 20.0 GHz	16.0 – 26.5 GHz
Displayed average noise level	<-125 dBm @ RBW=10 kHz**	<-118 dBm @ RBW=30 kHz	<-116 dBm @ RBW=30 kHz	<-106 dBm @ RBW=100 kHz
Max input power	+25 dBm	+25 dBm	+25 dBm	+25 dBm
RBW	10, 30, 100, 300 kHz	30, 100, 300, 1000 kHz	30, 100, 300, 1000 kHz	100, 300, 1000 kHz
VBW	1, 3, 10, 30 kHz	1, 3, 10, 30, 100 kHz	1, 3, 10, 30, 100 kHz	1, 3, 10, 30, 100 kHz
Min. span	0.5 MHz	1.5 MHz	1.5 MHz	5 MHz
Max. span	full bandwidth	full bandwidth	full bandwidth	full bandwidth
Sweep speed	130 ms @ 15 MHz Span	72 ms @ 50 MHz Span	75 ms @ 50 MHz Span	70 ms @ 50 MHz Span
Accuracy*	+/- 1 dB	+/- 1 dB	+/- 1 dB	+/- 1 dB
Input	50 ohm SMA (f)	50 ohm SMA (f)	50 ohm 2.92 mm (f)	50 ohm 2.92 mm (f)
Interface	USB Type-C	USB Type-C	USB Type-C	USB Type-C
Battery life	up to 4 h	up to 4 h	up to 4 h	up to 4 h
Operating temperature	-15 °C to +55 °C 5 °F to 131 °F	-15 °C to +55 °C 5 °F to 131 °F	-15 °C to +55 °C 5 °F to 131 °F	-15 °C to +55 °C 5 °F to 131 °F
Dimensions	135 x 83 x 34 mm 5.31 x 3.27 x 1.34 in	135 x 83 x 34 mm 5.31 x 3.27 x 1.34 in	135 x 83 x 34 mm 5.31 x 3.27 x 1.34 in	135 x 83 x 34 mm 5.31 x 3.27 x 1.34 in
Weight	0.57 kg / 20.11 oz	0.57 kg / 20.11 oz	0.57 kg / 20.11 oz	0.57 kg / 20.11 oz

* Guaranteed at 21 °C / 70 °F CW signal ** Guaranteed displayed average noise level for 30-3000 MHz frequency range

Available accessories:



Log-periodic antenna with handle

Horn antenna with handle

V-Band & E-band parabolic antenna

Line-of-Sight verification kit

24.0 – 43.0 GHz	56.0 – 71.0 GHz	70.0 – 87.0 GHz
<-101 dBm @ RBW=100kHz	-90 dBm @ RBW=10 MHz***	-90 dBm @ RBW=10 MHz
0 dBm	0 dBm	0 dBm
100, 300, 1000 kHz	10 MHz	10 MHz
1, 3, 10, 30, 100 kHz	300 kHz	300 kHz
5 MHz	1 GHz	1 GHz
full bandwidth	full bandwidth	full bandwidth
66 ms @ 100 MHz Span	0.5 s @ 1 GHz Span	0.5 s @ 1 GHz Span
+/- 1 dB	+/- 1 dB	+/- 1 dB
50 ohm 2.92 mm (f)	WR 15	WR 12
USB Type-C	micro USB 2.0 (1.1)	micro USB 2.0 (1.1)
up to 3 h	up to 3 h	up to 3 h
-15 °C to +55 °C 5 °F to 131 °F	-15 °C to +55 °C 5 °F to 131 °F	-15 °C to +55 °C 5 °F to 131 °F
135 x 83 x 34 mm 5.31 x 3.27 x 1.34 in	147 x 83 x 34 mm 5.79 x 3.27 x 1.34 in	147 x 83 x 34 mm 5.79 x 3.27 x 1.34 in
0.57 kg / 20.11 oz	0.57 kg / 20.11 oz	0.57 kg / 20.11 oz

*** Guaranteed displayed average noise level for 56.0 - 67.0 GHz frequency range

External PIM hunting solution kit

5G mmWave solution kit

Virtual Demo

Learn how to use Spectrum Compact in a few simple steps

Spectrum Core

Spectrum analyzer for integration

Frequency range	**0.01 – 3.0 GHz**
Displayed average noise level	<-125 dBm @ RBW=10 kHz**
Max input power	+25 dBm
RBW	10, 30, 100, 300 kHz
VBW	1, 3, 10, 30 kHz
Min. span	0.5 MHz
Max. span	full bandwidth
Sweep speed	130 ms @ 15 MHz Span
Accuracy*	± 1 dB
Input	50 Ω, SMA (f)
Interfaces data + power	USB Type-C ; 5 VDC, 3A
Operating temperature	-33 °C to 55 °C -27 °F to 131 °F
Dimensions	135 x 84 x 25mm 5.32 x 3.31 x 1.1 in
Weight	0.40 kg / 14.11 oz
Ingress protection	IP54

* Guaranteed at 21 ºC / 70 ºF CW signal

** Guaranteed displayed average noise level for 30-3000 MHz frequency range

SG Compact

Signal generators

Frequency range	5.925 – 12.0 GHz	10.0 – 18.0 GHz	17.0 – 24.3 GHz	24.0 – 40.0 GHz
Output power range	-3 dBm to +13 dBm	-3 dBm to +11 dBm	-3 dBm to +10 dBm	-3 dBm to +5dBm
Frequency accuracy	+/- 10 ppm	+/- 10 ppm	+/- 10 ppm	+/- 10 ppm
Frequency step**	1 MHz	1 MHz	1 MHz	1 MHz
Power step**	1 dBm	1 dBm	1 dBm	1 dBm
Signal form	Continuous wave	Continuous wave	Continuous wave	Continuous wave
Accuracy*	+/- 1 dBm	+/- 1 dBm	+/- 1 dBm	+/- 1 dBm
Output	50 ohm SMA (f)	50 ohm SMA (f)	50 ohm SMA (f)	50 ohm 2.92mm (f)
Interface	mini USB 2.0 (1.1)	mini USB 2.0 (1.1)	mini USB 2.0 (1.1)	mini USB 2.0 (1.1)
Battery life	up to 4 h	up to 4 h	up to 4 h	up to 3 h
Operating temperature	-15 ºC to +55 ºC 5 ºF to 131 ºF	-15 ºC to +55 ºC 5 ºF to 131 ºF	-15 ºC to +55 ºC 5 ºF to 131 ºF	-15 ºC to +55 ºC 5 ºF to 131 ºF
Dimensions	128 x 81 x 24 mm 5.04 x 3.2 x 0.94 in	128 x 81 x 24 mm 5.04 x 3.2 x 0.94 in	128 x 81 x 24 mm 5.04 x 3.2 x 0.94 in	130 x 81 x 28 mm 5.11 x 3.2 x 1.1 in
Weight	0.3 kg / 10.6 oz	0.3 kg / 10.6 oz	0.3 kg / 10.6 oz	0.4 kg / 14.11 oz

* Guaranteed throughout all the temperature range

** Adjustable step values

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