

S1433 Series Handheld Signal Generator

Datasheet



Saluki Technology Inc.

The document applies to the handheld signal generator of the following models:

- S1433D handheld signal generator (1MHz 20GHz)
- S1433E handheld signal generator (1MHz 26.5GHz)
- S1433F handheld signal generator (1MHz 40GHz)
- S1433H handheld signal generator (1MHz 50GHz)

Standard pack and accessories:

No.	ltem
1	Main Machine
2	Power cord
3	Power adapter
4	USB cable
5	Li-on battery (embedded)
6	Certificate of calibration

Options of the S1433 handheld signal generator in addition to standard accessories:

Model No.	Description	Function
C1422 C01	USB Power Meter Option (software)	Provide USB Power Measurement Function
51433-501		(Requires USB Power sensor:H06-H13)
S1433-H01	Optional Accessories of English Version	English Signs, Keys, Menu
S1433-H02	Power Adapter	Power Adapter
S1433-H03	Rechargeable Lithium Ion Battery	Standby Battery
S1433-H04	Purple Cat5e Cable	Point to Point, 2 Meters
S1433-H05	Micro SD Card	Class4, Capacity: 8G
S1433-H06	S87230 USB CW Power Sensor	9kHz-6GHz, for CW power measurement (S01 is optional)
S1433-H07	S87231 USB CW Power Sensor	10MHz-18GHz, for CW power measurement (S01 is optional)
S1433-H08	S87232 USB CW Power Sensor	50MHz-26.5GHz, for CW power measurement (S01 is optional)
S1433-H09	S87233 USB CW Power Sensor	50MHz-40GHz, for CW power measurement (S01 is optional)
S1433-H10	S87234D USB Peak Power Sensor	50MHz-18GHz, for Peak power measurement (S01 is optional)
S1433-H11	S87234E USB Peak Power Sensor	50MHz-26.5GHz, for Peak power measurement (S01 is optional)
S1433-H12	S87234F USB Peak Power Sensor	50MHz-40GHz, for Peak power measurement (S01 is optional)
S1433-H13	S87234L USB Peak Power Sensor	500MHz-67GHz, for Peak power measurement (S01 is optional)

Model No.	Description	Function
S1433-H14	Functional Bag	Protect the Instrument
S1433-H15	Backpack	Easy to Carry
S1433-H16	Safety Carrying Case	High strength light weight packing case with handle for transportation



Preface

Thank you for choosing S1433 series signal generator produced by Saluki Technology Inc.

We devote ourselves to meeting your demands, providing you high-quality measuring instrument and the best after-sales service. We persist with "superior quality and considerate service", and are committed to offering satisfactory products and service for our clients.

Document No.

S1433-02-01

Version

Rev01 2022.04

Saluki Technology

Document Authorization

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Product Quality Assurance

The warranty period of the product is three years from the date of delivery. The instrument manufacturer will repair or replace damaged parts according to the actual situation within the warranty period.

Product Quality Certificate

The product meets the indicator requirements of the document at the time of delivery. Calibration and measurement are completed by the measuring organization with qualifications specified by the state, and relevant data are provided for reference.

Quality/Settings Management

Research, development, manufacturing and testing of the product comply with the requirements of the quality and environmental management system.

Contacts

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Content

1.	Overview	6
2.	Main Characteristics	6
3.	Typical Applications	8
4.	Technical Specifications	9
5.	Compliant	.12



1. Overview

Saluki S1433 series signal generator is a hand-held instrument specially designed for field testing. It has the functions of CW signal output, FM/AM/Pulse modulation, large dynamic range amplitude adjustment, step/list sweep etc. The integrated design of 8.4-inch large capacitive touch screen is convenient for users' operation.

S1433 series signal generator has the characteristics of small size, flexible power supply and good working environment adaptability, which is very suitable for on-site use. It can be applied to the field installation, debugging and daily maintenance of fault diagnosis of electronic integrated system, receiver performance test, radar, communication, navigation and other equipment test.

2. Main Characteristics

Key Features

- ➤ Wide frequency range: from 1MHz to 20/26.5/40/50GHz
- Higher frequency resolution: 0.1Hz
- Excellent phase noise performance: -110dBc/Hz@10kHz frequency offset @10GHz carrier(typical)
- > Various auxiliary test interfaces: reference input/output, pulse input, monitoring output, synchronization output etc.
- Convenient and fast user operation experience: 8.4-inch large screen with bright LCD, convenient capacitive touch screen operation, integrated design of LCD and touch screen
- > Strong environmental adaptability: the working temperature range is -10 $^\circ$ C to 50 $^\circ$ C
- > Flexible power supply mode: can be powered by battery or power adapter

Main Functions

- CW signal output function
- > FM/AM/Pulse modulation function
- Step and List sweep function
- > Unstable amplitude and Unlock alarm function
- Support LAN and USB interface program control function

Wider Frequency Coverage

The frequency range of S1433 series signal generator is 1MHz to 20GHz/26.5GHz/40GHz/50GHz, the serialization minimum frequency is as low as 1MHz, and the highest frequency is as high as 50GHz, which can meet the needs of wide-band testing.

Various Auxiliary Test Interfaces





Wider Frequency Coverage

S1433 series signal generator SSB phase noise is better than -110dBc/Hz@10kHz frequency offset @10GHz carrier, which can meet the test requirements of most application scenarios.



Note 1: The supplementary features given in the form of typical values are for users' reference.

Convenient and fast user operation experience

8.4-inch large screen with high-brightness LCD, 800×600 pixel resolution, convenient capacitive touch screen operation, multi-window display, clear display of instrument setting parameters and status information, providing convenient and fast user operation experience.



		💉 2022-03-30 13:51:01
1.000 000 000	0 000 GHz MOD RF	-120.00 dBm
I FREQUENCY	I AMPLITUDE	I MODULATION
Freq Ref 0.000Hz Freq Ref OFF Freq Mul 1.000 Freq Off 0.000Hz	Amp Ref0.00dBmAmp Off0.00dBALCONALC BWAuto/10kHzOut BlankONAtten110dB	Pul Input Internal Auto Pul Width 10.000us Pul Period 20.000us AM Rate 1.000 000kHz AM Depth 30.00% FM Rate 1.000 000kHz FM Dev 100.000 000kHz
I SWEEP	I SYSTEM	USB POWER METER
Sweep Off Swp Type Step Swp Rep Cont Swp Trig Free Run Dot Trig Free Run Swp Dir Normal	Temp 45.5 °C Language English IP 172.141.11.202 Version 1.0.2 Device ID ZAL00165	Device is not Connected! Model Freq Range PM Freq PM Ampd8mW

3. Typical Applications

Electronic system anti-jamming performance test

The S1433 series signal generator has a wide output frequency and power range, and has a variety of analog modulation functions. It can simulate and generate jamming signals in the actual combat environment during the test of the anti-jamming performance of the electronic system, which can be used for the test of the anti-jamming performance of the electronic system.

Radar reception performance test and troubleshooting

For radar and other electronic equipment receiving performance testing and troubleshooting applications, S1433 series signal generators provide CW, analog modulated signal output, and can provide excitation signal simulation.



Field test of antenna pattern test

For the field test application of the antenna pattern, the S1433 series signal generator outputs a signal with known fixed amplitude, which is used to test the indicator of the transmitting antenna pattern.





4. Technical Specifications

Frequency Characteristics			
	S1433D:1MHz - 20GHz S1433E:1MHz - 26.5GHz	Frequency	N (internal YO harmonic number)
		1MHz≤f<2.35GHz	1/2
		2.35GHz≤f<2.5GHz	1/8
Frequency Range		2.5GHz≤f<5GHz	1/4
	S1433F:1MHz - 40GHz	5GHz≤f≤10GHz	1/2
	5 1455H. IMHZ - 50GHZ	10GHz <f≤20ghz< td=""><td>1</td></f≤20ghz<>	1
		20GHz <f≤40ghz< td=""><td>2</td></f≤40ghz<>	2
		40GHz <f≤50ghz< td=""><td>4</td></f≤50ghz<>	4
Frequency Resolution	0.1Hz		
Internal Timebase	Aging rate	±0.5×10 ⁻⁶ /year	
Internal Timebase	Temperature effects	±0.3×10 ⁻⁶ (-10°C - 50°C, versus 25°C±5°C)	
Initial Calibration Accuracy	±0.5×10 ⁻⁶		
Deference lanut	Frequency	1MHz - 100MHz, step 1MHz	
Reference Input	Power	-5dBm to +10dBm, impedance: 50Ω	
Potoronoo Qutnut	Frequency	10MHz	
	Power	>0dBm, 50Ω impedance	
Sweep Characteristics			
Sweep Features	Sweep mode	Step/List	



	Sweep points	2 to 1601	
	Dwell time	10ms to 100s	
	Trigger mode	Auto/manual	
Level Characteristics	·		
	1MHz≤f<2.5GHz	-120dBm to +5dBm	
Stable Output Dower Dower	2.5GHz≤f≤10GHz	-120dBm to +10dBm	
(25°C+10°C CW mode)	10GHz <f≤20ghz< th=""><th>-120dBm to +5dBm</th></f≤20ghz<>	-120dBm to +5dBm	
(25 °C ±10 °C, CW mode)	20GHz <f≤40ghz< td=""><td>-120dBm to +5dBm</td></f≤40ghz<>	-120dBm to +5dBm	
	40GHz <f≤50ghz< th=""><th>-120dBm to 0dBm</th></f≤50ghz<>	-120dBm to 0dBm	
Level Accuracy	-10dBm <p≤maximum stable<br="">output power</p≤maximum>	±1.0dB	
(25℃±10℃)	-60dBm <p≤-10dbm< th=""><th>±1.5dB</th></p≤-10dbm<>	±1.5dB	
	-90dBm <p≤-60dbm< th=""><th>±1.8dB</th></p≤-60dbm<>	±1.8dB	
Output Impedance	50Ω (Rating)		
	1MHz≤f≤20GHz	<1.8:1	
SWR	20GHz <f≤40ghz< td=""><td><2.0:1</td></f≤40ghz<>	<2.0:1	
	40GHz <f≤50ghz< td=""><td><2.5:1</td></f≤50ghz<>	<2.5:1	
Maximum Reverse Power	+27dBm (0V DC) (Rating)		
Spectral Purity (specification is point frequency without modulated mode)			
Spectral Purity (specification is	point frequency without modula	ted mode)	
Spectral Purity (specification is	point frequency without modulat 1MHz≤f≤1.5GHz	ted mode) ≤-40dBc	
Spectral Purity (specification is Harmonics	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< th=""><th>ted mode) ≤-40dBc ≤-30dBc</th></f≤2.5ghz<>	ted mode) ≤-40dBc ≤-30dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz 2.5GHz<f≤19ghz< td=""><td>ted mode) ≤-40dBc ≤-30dBc ≤-40dBc</td></f≤19ghz<></f≤2.5ghz 	ted mode) ≤-40dBc ≤-30dBc ≤-40dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz 2.5GHz<f≤19ghz 19GHz<f≤25ghz< td=""><td>ted mode) <-40dBc</td> <-30dBc</f≤25ghz<></f≤19ghz </f≤2.5ghz 	ted mode) <-40dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""></f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) <-40dBc <-30dBc <-40dBc <-30dBc <-30dBc <-30dBc <-30dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤25ghz< td=""> 1MHz≤f<25GHz</f≤25ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) <-40dBc	
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Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz</f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) <-40dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower) Non-harmonics (0dBm, >10kHz offset)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz</f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) <-40dBc	
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Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower) Non-harmonics (0dBm, >10kHz offset)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz</f≤50ghz<></f≤25ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) \$=40dBc \$=30dBc \$=40dBc \$=30dBc \$=30dBc \$=35dBc (typical) \$=54dBc \$=60dBc \$=56dBc \$=50dBc \$=44dBc \$=40dBc \$=40dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower) Non-harmonics (0dBm, >10kHz offset)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz</f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) \$=40dBc \$=30dBc \$=40dBc \$=30dBc \$=30dBc \$=35dBc (typical) \$=54dBc \$=56dBc \$=56dBc \$=50dBc \$=40dBc \$=44dBc \$=40dBc \$=40dBc \$=40dBc \$=40dBc \$=40dBc \$=40dBc \$=40dBc \$=82dBc/Hz@100Hz \$=98dBc/Hz@1kHz	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower) Non-harmonics (0dBm, >10kHz offset) SSB Phase Noise	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz</f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) \$=40dBc \$=30dBc \$=40dBc \$=30dBc \$=30dBc \$=35dBc (typical) \$=54dBc \$=56dBc \$=56dBc \$=56dBc \$=50dBc \$=44dBc \$=44dBc \$=44dBc \$=40dBc \$=40dBc \$=108dBc/Hz@100Hz	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower) Non-harmonics (0dBm, >10kHz offset) SSB Phase Noise (at maximum stable output power)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz</f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) <-40dBc	
Spectral Purity (specification is Harmonics (Measured at +5dBm or maximum specified power, whichever is lower) Non-harmonics (0dBm, >10kHz offset) SSB Phase Noise (at maximum stable output power)	point frequency without modulat 1MHz≤f≤1.5GHz 1.5GHz <f≤2.5ghz< td=""> 2.5GHz<f≤19ghz< td=""> 19GHz<f≤25ghz< td=""> 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz 25GHz<f≤50ghz< td=""> 1MHz≤f<2.5GHz 2.5GHz<f≤20ghz< td=""> 20GHz<f≤20ghz< td=""> 20GHz<f≤38ghz< td=""> 38GHz<f≤50ghz< td=""> 1MHz≤f<2.35GHz 2</f≤50ghz<></f≤38ghz<></f≤20ghz<></f≤20ghz<></f≤50ghz<></f≤50ghz<></f≤25ghz<></f≤19ghz<></f≤2.5ghz<>	ted mode) ≤-40dBc ≤-30dBc ≤-40dBc ≤-30dBc ≤-30dBc ≤-30dBc ≤-35dBc (typical) ≤-54dBc ≤-60dBc ≤-56dBc ≤-56dBc ≤-50dBc ≤-40dBc ≤-40dBc ≤-40dBc ≤-40dBc ≤-40dBc ≤-40dBc ≤-108dBc/Hz@100Hz ≤-106dBc/Hz@100kHz ≤-94dBc/Hz@100Hz	



		≤-120dBc/Hz@10kHz
		≤-118dBc/Hz@100kHz
		≤-88dBc/Hz@100Hz
		≤-104dBc/Hz@1kHz
		≤-114dBc/Hz@10kHz
		≤-112dBc/Hz@100kHz
	5011 - (140011	≤-82dBc/Hz@100Hz
		≤-98dBc/Hz@1kHz
	5GHz≤t≤10GHz	≤-108dBc/Hz@10kHz
		≤-106dBc/Hz@100kHz
		≤-76dBc/Hz@100Hz
		≤-92dBc/Hz@1kHz
	10GHz <t≤20ghz< td=""><td>≤-102dBc/Hz@10kHz</td></t≤20ghz<>	≤-102dBc/Hz@10kHz
		≤-100dBc/Hz@100kHz
		≤-70dBc/Hz@100Hz
		≤-86dBc/Hz@1kHz
	20GHz <t≤40ghz< td=""><td>≤-96dBc/Hz@10kHz</td></t≤40ghz<>	≤-96dBc/Hz@10kHz
		≤-94dBc/Hz@100kHz
	40GHz <f≤50ghz< td=""><td>≤-68dBc/Hz@100Hz</td></f≤50ghz<>	≤-68dBc/Hz@100Hz
		≤-84dBc/Hz@1kHz
		≤-94dBc/Hz@10kHz
		≤-92dBc/Hz@100kHz
Modulation Characteristics	•	
	On/off ratio	≥80dB
Pulse Modulation	Rise/fall times	≤30ns
(Frequency >10MHz)	Minimum pulse width ALC ON	1us (Deviation±50ns)
	Minimum pulse width ALC OFF	100ns (Deviation±20ns)
	Modulation type	Linear modulation, exponent modulation
	Modulation rate (3dB bandwidth)	DC - 20kHz
Amplitude Modulation	Maximum depth	Linear closed loop: ≥90%
(Frequency >10MHz)		Exponent closed loop: ≥20dB
	Linear AM accuracy	\pm (5%× setting depth+1%) (at 1kHz modulation rate)
	Exponent AM accuracy	\pm (5%× setting depth $+$ 1dB) (at 1kHz modulation rate)
Frequency Modulation	Modulation rate (3dB bandwidth)	DC - 20kHz
(Frequency >10MHz)	Maximum peak deviation	N×800kHz (N: YO harmonic number) , accuracy: ±10% (at



		1kHz)	
	Distortion	±3% (at 1kHz, 100kHz offset, 300Hz - 3kHz demodulation bandwidth)	
General Characteristics			
	S1433D	N (female) , impedance: 50Ω	
	S1433E	2.4mm (male) , impedance: 50Ω	
RF Output Port	S1433F	2.4mm (male) , impedance: 50Ω	
	S1433H	2.4mm (male) , impedance: 50Ω	
Dimensions	314mm×218mm×91mm		
(W×H×D)	(excluding handle, foot mat a	(excluding handle, foot mat and footing)	
Weight	\leq 5.5kg (including battery)	≤ 5.5kg (including battery)	
	Dower adapter	input: 100 - 240V, 50/60Hz AC	
Power Supply	Power adapter	output: 15V _{DC} , 4A	
	Lithium electronic battery	10.8V, 9900mAh	
Power Consumption	≤45W (Battery charging is no	≤45W (Battery charging is not included)	
Temperature Range	Operating temperature	-10 $^\circ \rm C$ to +50 $^\circ \rm C$ (battery charging temperature: 0 $^\circ \rm C$ to +45 $^\circ \rm C$)	
	Storage temperature	-40 $^\circ\!\mathrm{C}$ to +70 $^\circ\!\mathrm{C}$ (battery storage temperature: -20 $^\circ\!\mathrm{C}$ to +60 $^\circ\!\mathrm{C}$)	
	Pulse input	BNC (male)	
	Synchronization output	BNC (male)	
Other Internace	Monitoring output	BNC (male)	
	Reference input/output	BNC (male)	
Note: Ratings refer to expected performance, or describe product performance that is useful in the product but not covered by the			

Note: Ratings refer to expected performance, or describe product performance that is useful in the product but not covered by the product warranty.

5. Compliant

5. 1. **CE**



• EMC

Complies with the requirements of the $\ensuremath{\text{EC EMC}}$ directives.

Test Standards:EN 61326

Safety

Complies with EC LVD Directive.



Test Standard: EN61010-1

5. 2. **ISO**



Manufacturing

This instrument is manufactured in an ISO-9001 registered facility

- End of Document -