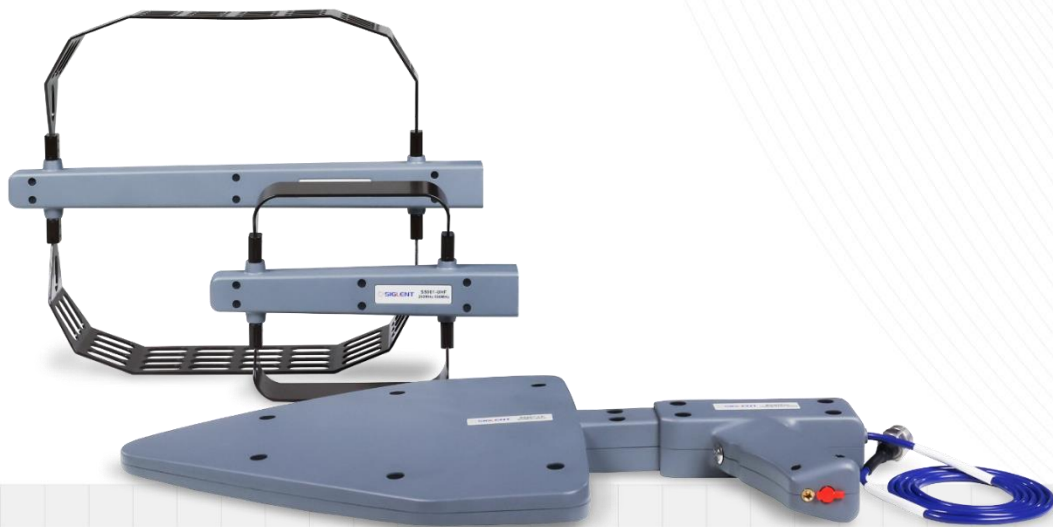


Directional Antenna



DataSheet

EN_02A



General Description

The handheld directional antenna is often used in security department and radio management department used to locate transmitters and interference sources. It can also be used in EMC testing, field strength scanning, base station detection and maintenance, substation power system detection and maintenance, automobile radiation detection, medical equipment radiation, pseudo base station detection equipment and other fields. Bearings are found by manually pointing the antenna in the direction where the signal is strongest.

Siglent handheld directional antenna, with frequency range of 10MHz~8GHz, is convenient to carry out and easy to operate test solution. The handheld directional antenna set consists of three antennas of different frequency bands and a handle with built-in low noise amplifier. The antenna and the support handle are integrated in a blind way to realize the test of vertical or horizontal polarization direction signal. A single antenna can also be used directly through the N-type female connection equipment. The handle has built-in low noise amplifier and a rechargeable battery. It is designed with 'Through' and 'Amplifier' switch in order to improve the dynamic range of the received signal. There is an N-type male stable phase low loss ultra flexible RF line, which can be directly connected to the spectrum analyzer.

Model and Main index

Model	LP	UHF	VHF
Frequency Range	500MHz-8GHz	200MHz-500MHz	10MHz-200MHz
Antenna Gain	10dBi (typ.)		
SWR	< 1:1.9 (typ.)		
Direction Of Polarization	horizontal, vertical		
RF Interface	50Ω/N type, female		
Handle RF Cable	1.5m /N type, male		
Handle Amplifier Gain	12dB @1GHz, more than 50 hours		
Dimensions	470 x 400 x 240mm		
Rough Weight	4.8kg (include packing box)		
Net Weight	0.45kg (include handle 0.96kg)	0.32kg (include handle 0.83kg)	0.50kg (include handle 1.01kg)

Appearance

LP: 500MHz – 8GHz



UHF: 200MHz – 500MHz



VHF: 10MHz – 200MHz



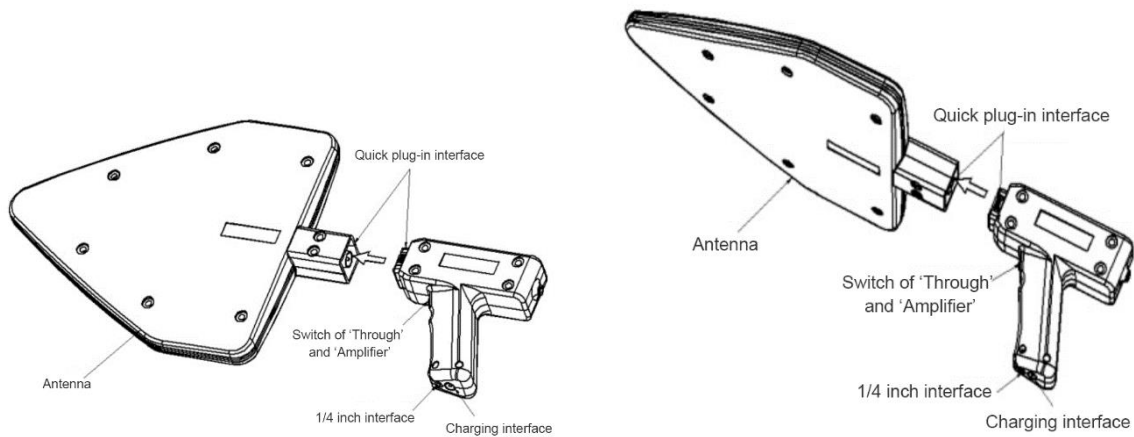
Handle & Charger



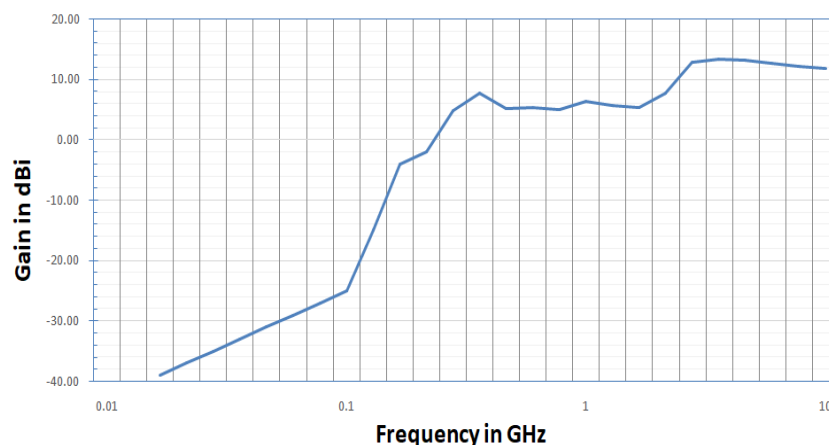
Pull rod packing box



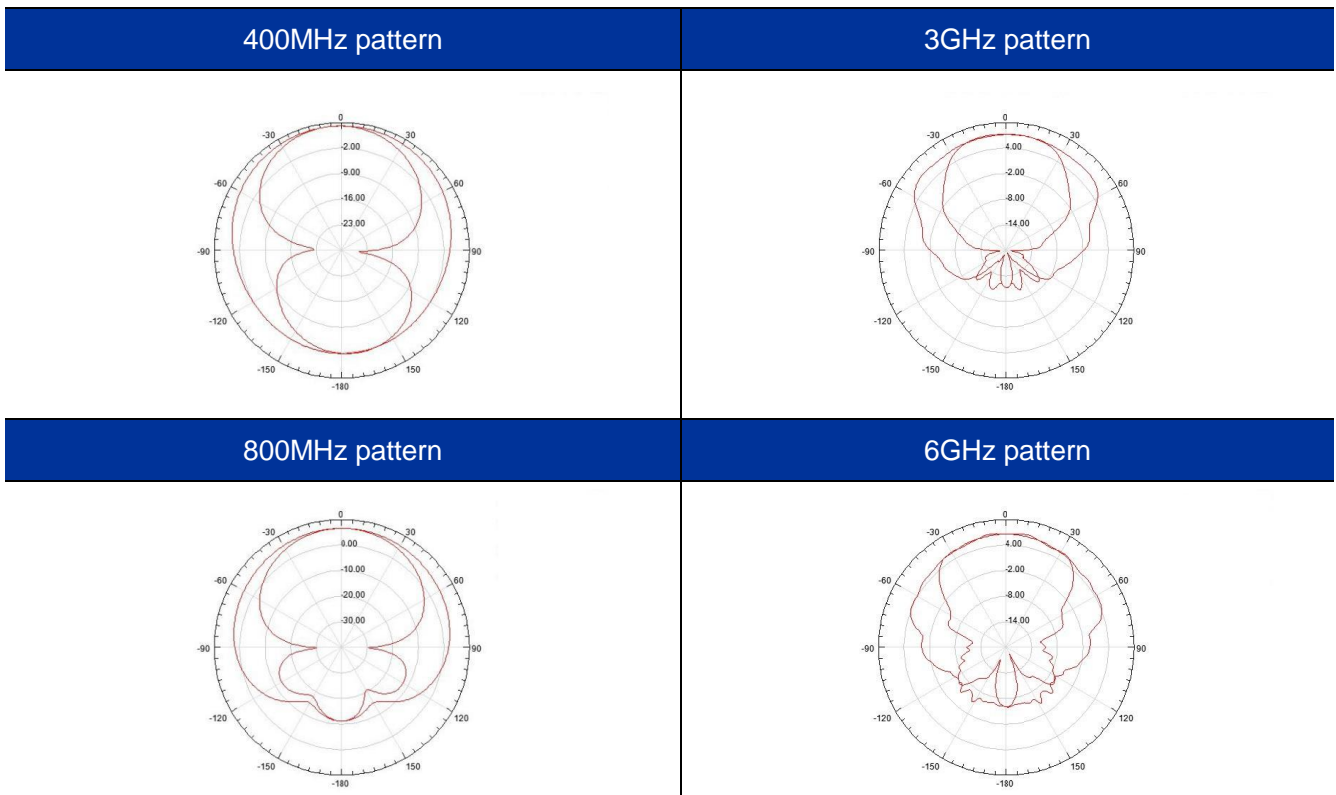
Design features



- ◆ The handle has the function of 'Through' and 'Amplifier' switch, suitable for switching between large signal and small signal test. When the switch is pressed, the green light will turn on, and the signal will be in active amplification working state after being amplified by LNA. when the switch is turned off, the signal will be in the passive working state.
- ◆ The bottom of the handle is equipped with a 1/4-inch interface for easy tripod fixation testing; The charging interface is for charging the lithium battery inside the handle. The upper part of the handle is a mechanical north arrow.
- ◆ The antenna supports quick plugging and switching between different frequency bands, and is fixed in place using plastic elasticity and N type interface. When the handle and antenna are inserted to the correct depth, a "click" sound will be heard to prove that they have been inserted, the removal method is the opposite. Pay attention to the balance line connection between the antenna and the handle during quick insertion and removal to avoid damaging the N type and its service life.
- ◆ When the handle is charged, the indicator light is red and saturated when the indicator light is green. When not in use, please turn off the handle and the amplification switch is in a passive state.
- ◆ Avoid 90 ° bending of RF cables.
- ◆ Measured gain chart



Typical pattern and application diagram



Order Information

Product	Description	Order Number
Antenna set	VHF(10 MHz~200 MHz), UHF(200 MHz~500 MHz), LP(500 MHz~8 GHz), Handle Amplifier (10 dB, 9 kHz~8 GHz)	ANT-DA1
VHF antenna	VHF(10 MHz~200 MHz), Handle Amplifier (10 dB, 9 kHz~8 GHz)	ANT-DA11
UHF antenna	UHF(200 MHz~500 MHz), Handle Amplifier (10 dB, 9 kHz~8 GHz)	ANT-DA12
LP antenna	LP(500 MHz~8 GHz), Handle Amplifier (10 dB, 9 kHz~8 GHz)	ANT-DA13

About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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