

ST121 Multifunctional Advanced Simulator



PURPOSE

■ **ST121 is designed to simulate operation of almost all types of bugging devices, such as:**

- RF microphone
- Carrier current
- Optical
- Ultrasonic

It also imitates electromagnetic interference of electronic devices (TEMPEST), such as solid state dictaphones and cell phones



PLACES OF ACTIVITY

- Training of TSCM personnel
- Testing functionality of the TSCM equipment
- Laboratory measurement

KEY FEATURES

- Complete signal generator in a wide frequency range: 0.01-20MHz and 100-6000MHz
- Self-powered
- Small dimensions
- Robust design



GSM 3G DCT WF BT
Carrier frequency
898.000MHz
Standard GSM
P=+15dBm 32mW

LF/MF .01-120kHz
Carrier frequency
001000 Hz
Modulation PWM
Freq 10Hz
Ratio 1:5
Power 100%

HF/SHF 0.1-6 GHz
Carrier frequency
3500.00MHz
Modulation AM
Freq 600Hz
P=+17dBm 50mW

SETTINGS..
RF/UHF 0.1 - 6GHz
GSM 3G DCT WF BT
LF/MF .01 - 120kHz
RJ45 .01 - 20000kHz
220V 30 - 20000kHz
IR 940nM
Memorize data



ST121

Multifunctional Advanced Simulator



COMPLETE SET

Main module	1
HF antenna	1
«RJ-45» cable	1
«220V» cable	1
«3/RJ-45» cable	1
Power supply/charger 5V/1A	
Technical description and operating manual	1

TECHNICAL SPECIFICATIONS

“RF/UHF” socket

Frequency range, MHz	100-6000
Frequency-tuning step, kHz	10, 100, 1000, 10000, 100000
Signal level, dBm	-42 – +14
Signal	Sinusoidal, DSSS, FHSS, PULSE
Modulation	AM, FM
Data transmission standards for imitation	GSM, 3G, DECT, WLAN, BLUETOOTH
Bandwidth of Hopping, MHz	1, 6, 10, 20, 50, 100
Number of Hopping Channels	25, 50, 125, 250
FHSS frequency of hopping, Hz	1, 2, 4, 8
DSSS bandwidth, MHz	0.3, 0.5, 1, 2, 4
PULSE Signal transmission time, sec	0.0001- 99
PULSE Signal accumulation time, sec	0.01-5999

“RJ-45” socket

Frequency range, kHz	0.01-20000
Maximum signal amplitude, V	3.5
Modulation	AM, FM, PWM

“220V” socket

Frequency range, kHz	30-20000
Maximum signal amplitude, V	3.5
Maximum input voltage, V	380
Modulation	FM, DSSS, PWM

“IR” emitter

Wave length, nm	940
Subcarrier frequency range, kHz	0.01- 5000
Modulation	AM, FM, DSSS

“LF” socket

Frequency range, kHz	0.01-120
Maximum output power, W	0.7 (power supply),
Impedance, Ω	8
Modulation	AM, FM, DSSS

Magnetic field emitter

Equivalent magnetic moment of magnetic field source with frequency 1kHz, A*m ²	2*10 ⁻⁴
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Power

Power supply	Li-Polymer battery, 2.2A/h or 220V
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Main module dimensions, mm	110X60X28
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