MIN11300 Antenna analyzer



-, Specification:

Frequency Range:0.1-1300MHzHFVHF/UHF continuous coverage In/Out-impedance:50

Measurement-parameters:SWR,R,+Jx,-Jx,IZI,Return loss

Measurement Mode:Single point measurement,Scanning(Frequency Sweep),and TDR Mode

SWR Measurement Range:1.0-1999(Single Point Mode),1.0-20.0(Scan Mode)

Display Modes:Numerical display,curve display,simith chart

Connector Type:UHF N-type connector

VAN:SMA SMAOPEN-SHORT-LOADCalibrationKitx1

LCD size:480x2724.3"TFT LCD display

Touch Screen Type: Capacity

All capacitive touch screen on the display-nobuttons are needed .

Power Source:USB or Internal Li-ion

Built-in Li-ion charging circuit and DC-DC booster

Maximum charging current:5V/1.5A

External Storage Method: TF card

Dimensions:133.85.29mm Does not contain prominent ports.

Weight:550g

Warning: if the product has parameter changes, the actual test will prevail.

Package Included: 1x Antenna Analyzer

\Box , Port specification





Ξ 、Main menu



1. single Frequency	单频点测试
2. Frequency sweep	频率扫描
3. multi swr	多波段驻波测试
4. tune swr 单频率驻	波测试
5.S21 gain	S21 增益测试
6. find Frequency	频谱仪
7. quartz data	晶振测试
8. TDR mode	馈线长度测试
9. L/C meter 电感电容	表
10.DSP 测量板输入端的	的噪声和电平
11. configuration	系统配置菜单
12.manage snapshot	照片管理
13.USB HS Reader	USB 读卡
14.RF generator	信号发生器
15.WSPR/FT8/JT65	(V3.5 未启用)

1:



The buttons on top of the screen, the frequency can be changed stepwise. Set Frequency leads to the frequency selection window as in Panoramic scan

The outline dared with the SWR display also includes the values of equivalent series connection of the measured impedance.Touching this area switches to the equivalent parallel circuit

Click on the Smith circle interface to display two possible LC matching values for impedance conversion to 50 ohms.





Frequency Scanning (Panoramic Frequency Scanning)

Click on the top of the screen to open the frequency input window. Optional You can choose the amateur frequency band or freely choose the center frequency and bandwidth

3. multi swr



Changing or adding positions: tapping the frequency respectively of an empty field.

Delete a location: Touch-frequency field and in the frequency menu Cancel choose

The selected frequencies are stored

4. tune swr



SWR measures changes in color and strip length:

If the target SWR is lower than SWR_2 or SWR_3, the selected SWR is white and green.

If SWR exceeds the selected target, the bar is white and red.

The frequency of the sound varies with SWR: the smaller the SWR, the lower the pitch. Tone switching sound

Turn it off in silence.

5. S21 gain S21

1.Feeder connection VNA and ANT ports



2. Open the Calibration Menu (S21)Gain Calibration for VNA



3. Filter test



6. Find Frequency



Automatic: Continuous scan on/off Frequency : Choice of frequency and scanning Test : 3.5 MHz generator on/off Spectrum : Spectrum display on/off

7. quartz data



After entering the frequency, OPEN is calibrated to measure the parasitic impedance of the terminal.

Then, the user is asked to put quartz in the socket and start measuring. Start:

8.TDR mode

EU1KY T: 0.0 i	AA v.3.0 ns. Mag: 0	d Time Dom 93839 Vf	ain Reflect =0.66	Distance:	de	10m	50m	150m	300m
1.000	.30.4	+ Unm		0 m					600 300 150 75 50 25
۷	h								- Ohm >
-1.000 Ex	il				A5.	.bmp			

Cable Length

To determine the electrical length of cables or to locate cable faults. The cursor is automatically at the point of maximum discontinuity. The velocity factor can with CHF. Vf be changed. Store volatile stores it only for current measurements, Store permanently however.

8. L/C meter



Calibration before use: short, 50 ohms, open

9. DSP Noise and Level at Input of Measuring Board



11.1Color settings 11.2System settings

11.3Calibration menu

A: ANT 天线端口校准,分别接入 5.1R, 50R, 300R, 3 种假负载

ANT antenna test port calibration, respectively access 5.1R, 50R, 300R, three false loads

B:Calibration of Internal Inspection Board (No Use)

C:VNA calibration, feeder short circuit ANT and VNA port calibration

D:Maximum oscillation test

11.4 Noise and level of input of DSP measuring board11.5 Battery Voltage CalibrationHave been calibrated, please do not change the parameters.

11.6Clock setting Set year, month, day, time

11.7 Photo management snapshot You can view photos kept in SD memory

11.8 USB memory

Connect to the computer to view the memory

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- 视频			

12. manage snapshot You can view photos kept in SD memory

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13. USB HS Reader

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库			
视频			

14. RF generator Generator signal generator, supporting AM/FM modulation



AM modulates the carrier at 500 Hz FM causes a frequency shift of ± 150 Hz with 500Hz

15.WSPR/FT8/JT65 (V1.0 is available, V3.5 no such function)