MINI1300Antennaanalyzer

一、Specification:
FrequencyRange:0.1-1300 MHZ HF VHF/UHF continuous coverage, HF NHF/UHF FM
0.1-1300M HF VHF/UHF
In/Out Impedance:50

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

Measurement Mode:Single point measurement, Scanning Frequency Sweep),and TDRMode
SWRMeasureMentRange:1.0-1999(Single Point Mode),1.0-20.0(ScanMode)

DisplaynModes:Numerical display,curve display,smith chart

ConnectorType:UHF N-type connector
VAN:SMA
SMA OPEN-SHORT-LOAD Calibration Kitx1

LCD size:480x2724.3”TFT LCD display

Touch Screen Type:Capacitive All capacitive touch screen on the display-no button needed
PowerSource:USB or Internal Li-ion

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

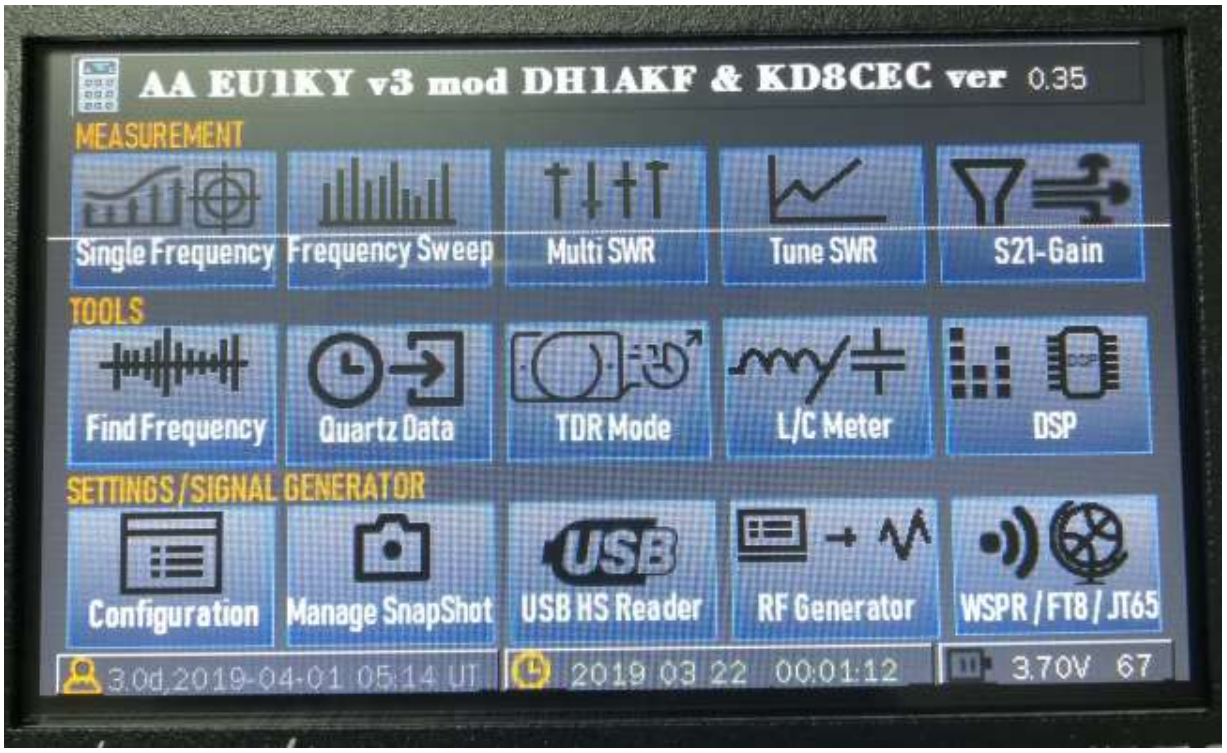
Maximum charging current-5V/1.5A
External Storage Method:TF card
Dimensions:133•85•29mm Does not contain prominent ports.

Weight:550g

Warning: if the product has parameter changes,thebactual test will prevail.
Package Included:
1-2019 New 0.1-1300 mhz HF NHF/UHF AntennaAnalyzer Capacitive Touch Screen

Port specification

Main menu



1:

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)

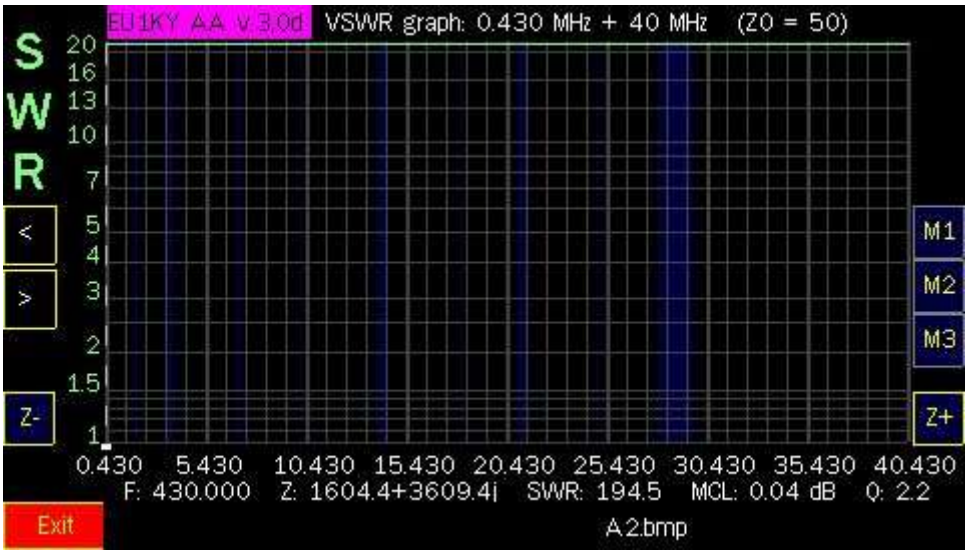
be changed step wise.

Set Frequency leads to the frequencyn selection window base in Panoramic scan

The outline area with the SWR display also includes the valB ies connectionbof the measured impedance.
Touching this area switches to the equivalent parallel circuit

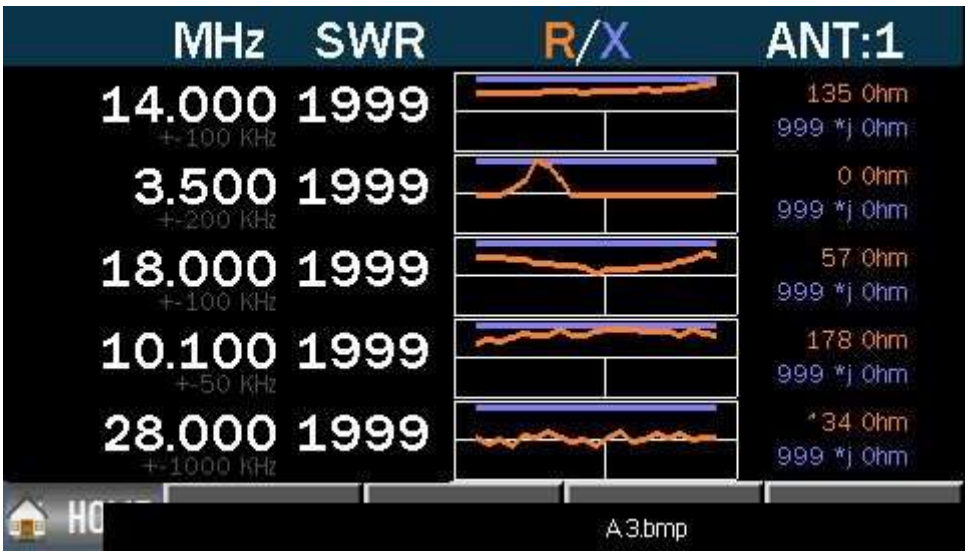
Tapping the Smith chart shows the dimensionimg of the 2 possible LC matching networks in order to transform the measured impedance to 50

2. Frequency sweep



Frequency Sweep (Panorama-Frequene scan)
Mit dem Antippen des oberen Bildschirmrands öffnet sich das Fenster zur Frequenzeingabe. Wahlweise
kann ein Amateurband ausgewählt oder die Mittenfrequenz sowie die Bandbreite frei gewählt werden:

3. multi swr

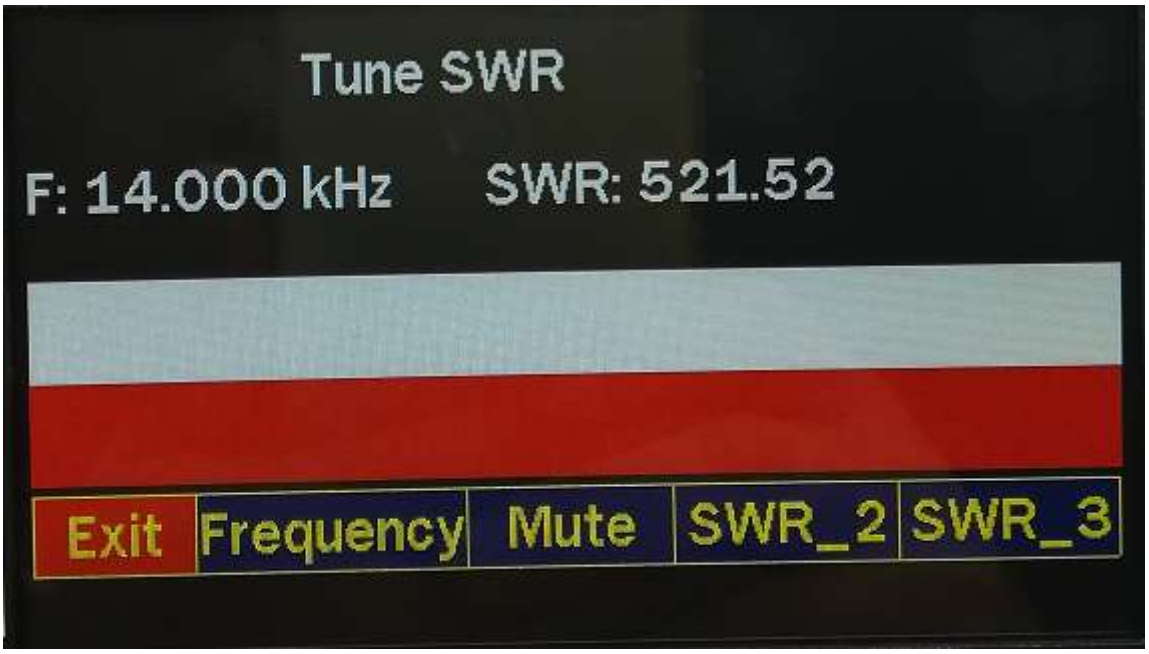


Changing or adding positions: tapping the frequency respectively of an empty field.

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

The selected frequencies are stored.

Tune swr



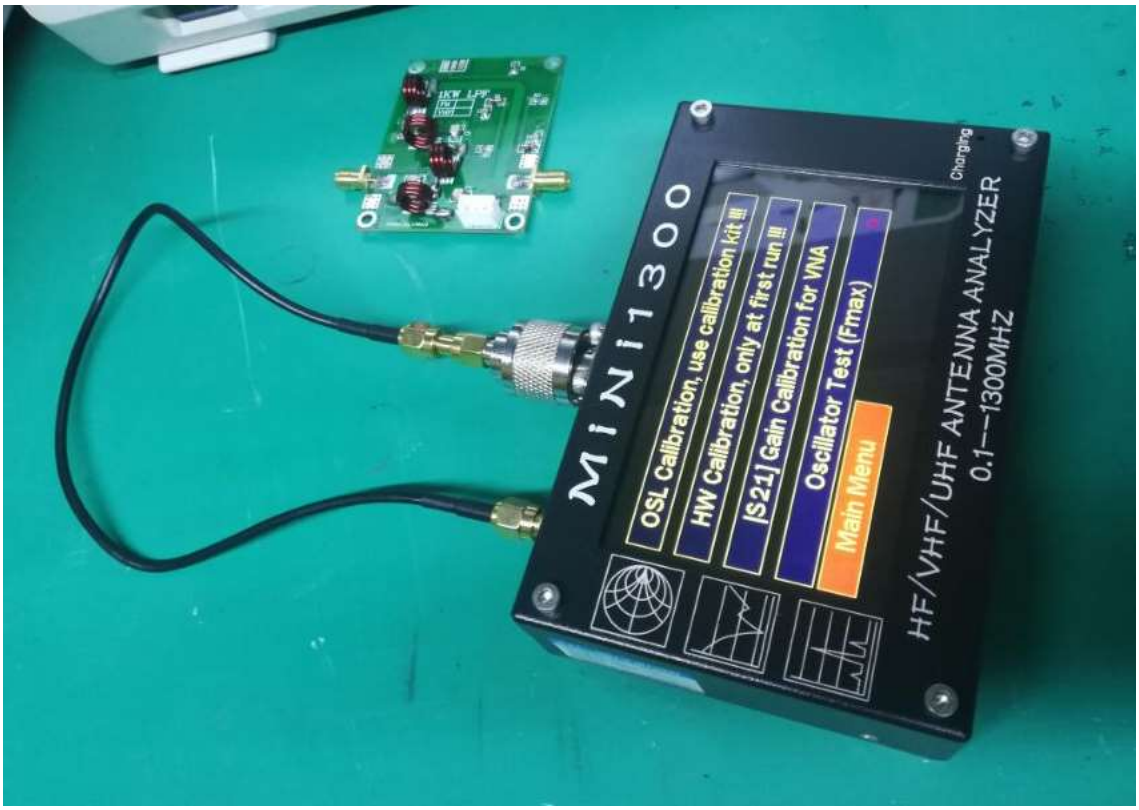
SWR-Messung ändern sich Farbe und
Länge eines Streifens. Wenn das mit SWR_2 respektive SWR_3
gewählte Ziel-SWR unterschritten wird ist
der Balken weiss und grün. Wird das gewählte Ziel-SWR ü
berschritten ist der Balken weiss und rot. Die
Frequenz des Tons variiert mit dem SWR: Je kleiner das SWR, desto

tiefer der Ton. Tone schaltet den Ton ein, Mute schaltet ihn aus.

SWR

5. S21 gain S21

1. Feeder connection VNA and ANT ports



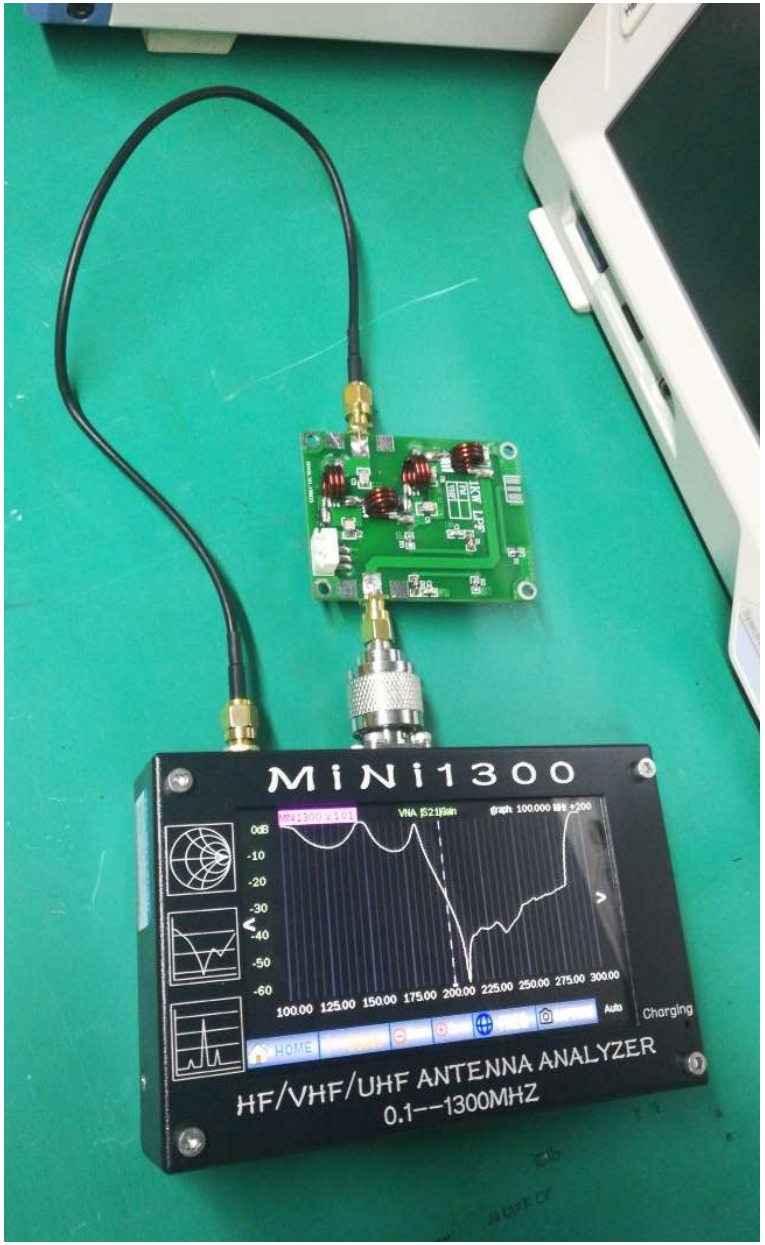
2.

Open the Calibration Menu

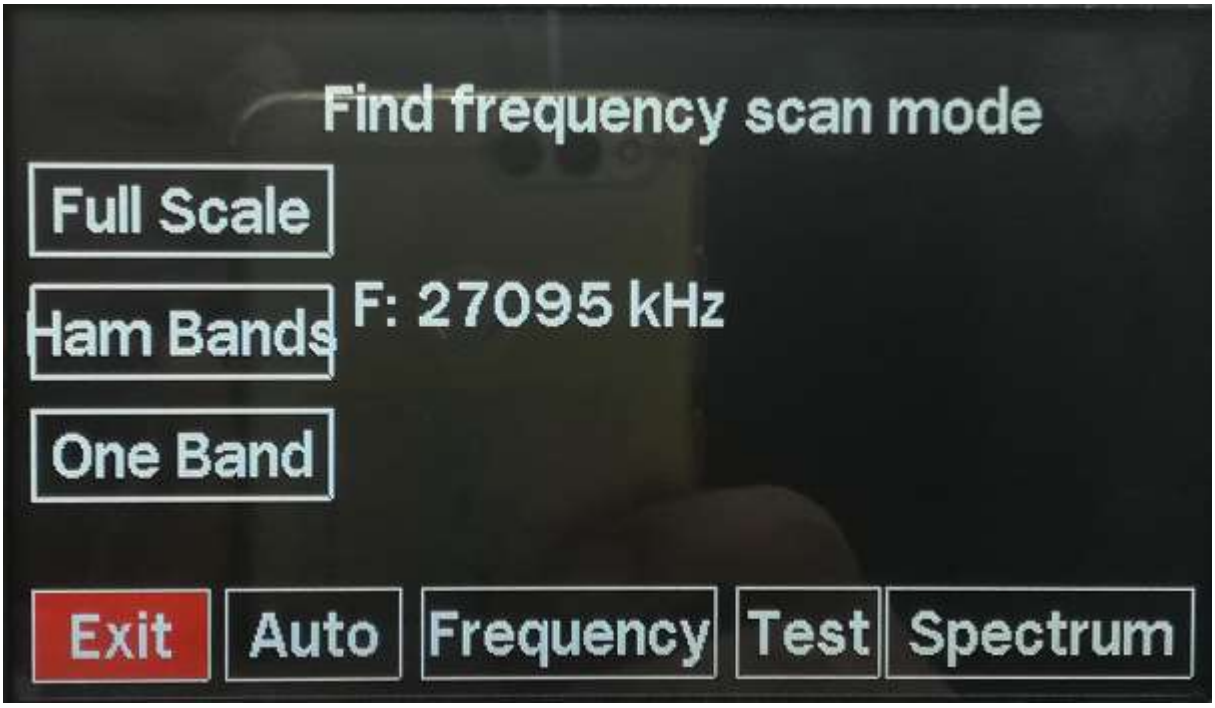
（S21)Gain Calibration for VNA

3.

Filter test


MiNi1300
HF/VHF/UHF ANTENNA ANALYZER
0.1--1300MHZ
HOME
Charging

6. find Frequency

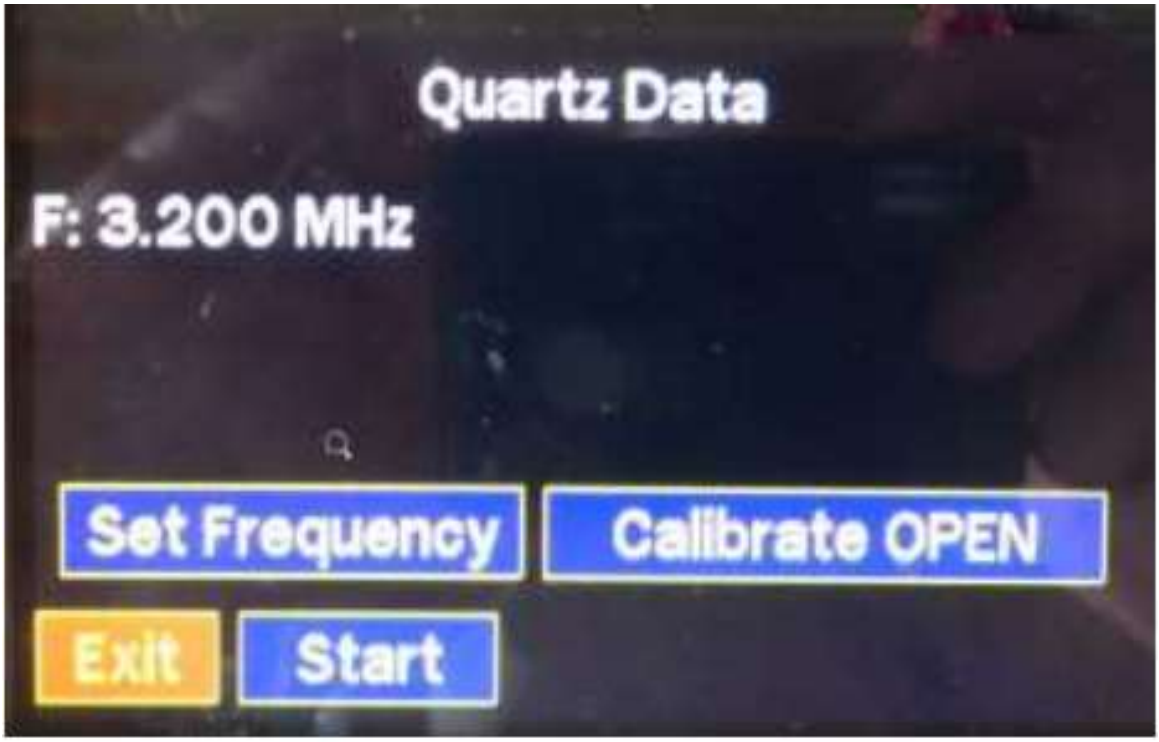


Automatical: Continuous scan on/off
Frequency : Choice of frequency and scanning

Test : 3.5 MHz generator on/off

Spectrum : Spectrum display on/off

7. quartz data



Nach Eingabe der Frequenz wird mit Calibrate OPEN die parasitäre Impedanz des Anschlusses gemessen.
Danach wird der Benutzer aufgefordert, den Quarz in den Sockel zu stecken und mit Start die Messung

8. TDR mode

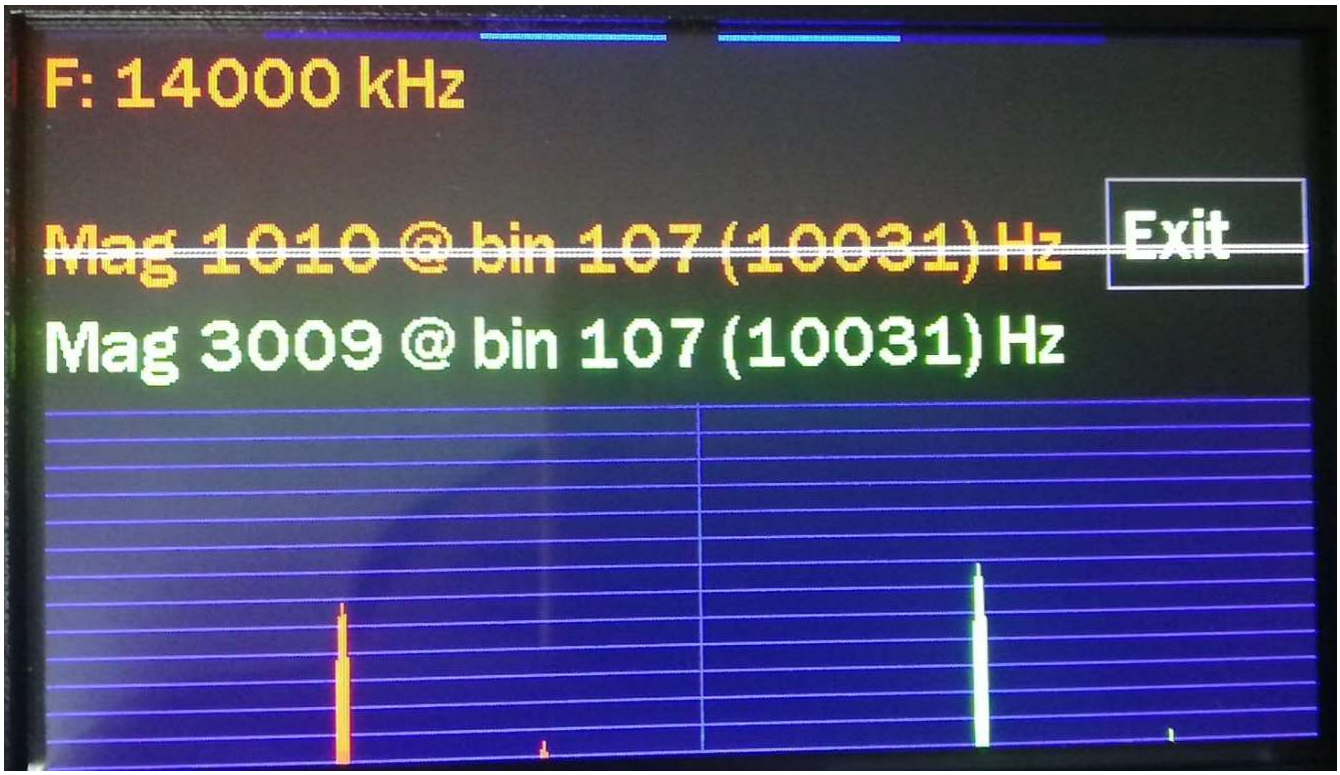
Cable Length
To determine the electrical length of cables or to locate cable faults. The cursor is automatically at the point of maximum discontinuity. The velocity factor can with CHF. Vfbe changed. Store volatile stores it only for current measurements, Store permanently however.

9. L/C meter

Calibration before use: short , 50 ohms, open

10. DSP

Noise and Level at Input of Measuring Board



11. configuration

11.1Color settings
11.2 System settings
11.3 Calibration menu
A: ANT 5.1R, 50R , 300R,
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

11.4DSP Noise and level of input of DSP measuring board
11.5 Battery Voltage Calibration
Have been calibrated, please do not change the parameters.

11.6 Clock setting

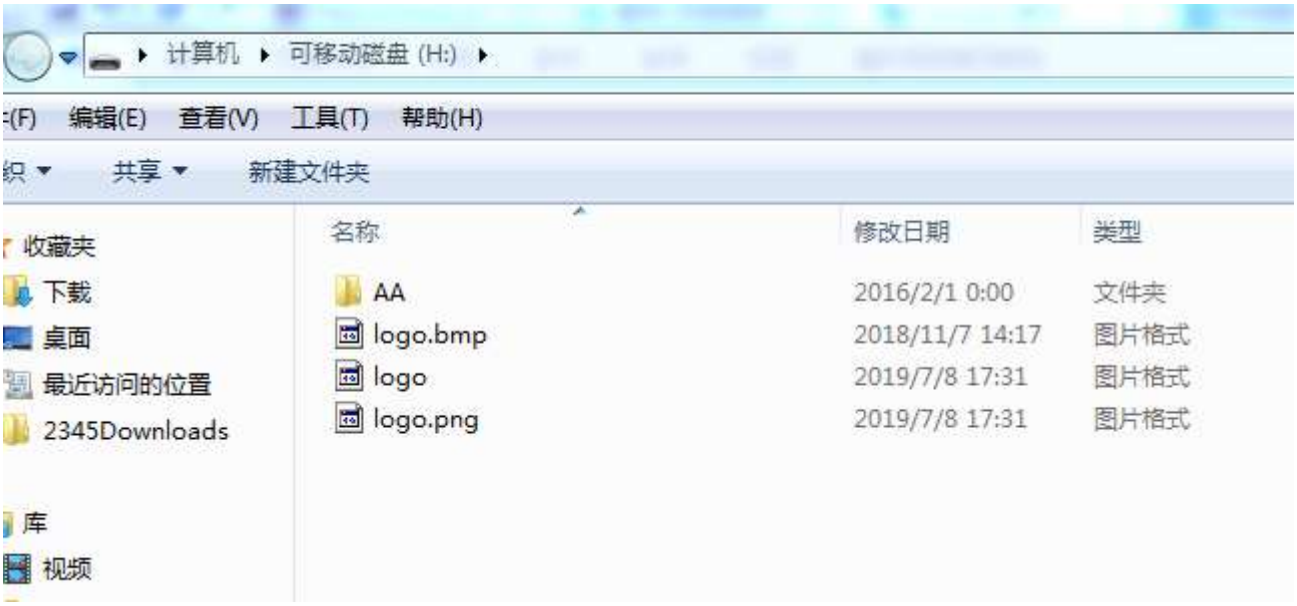
Set year, month, day, time

11.7 Photo management snapshot

You can view photos kept in SD memory

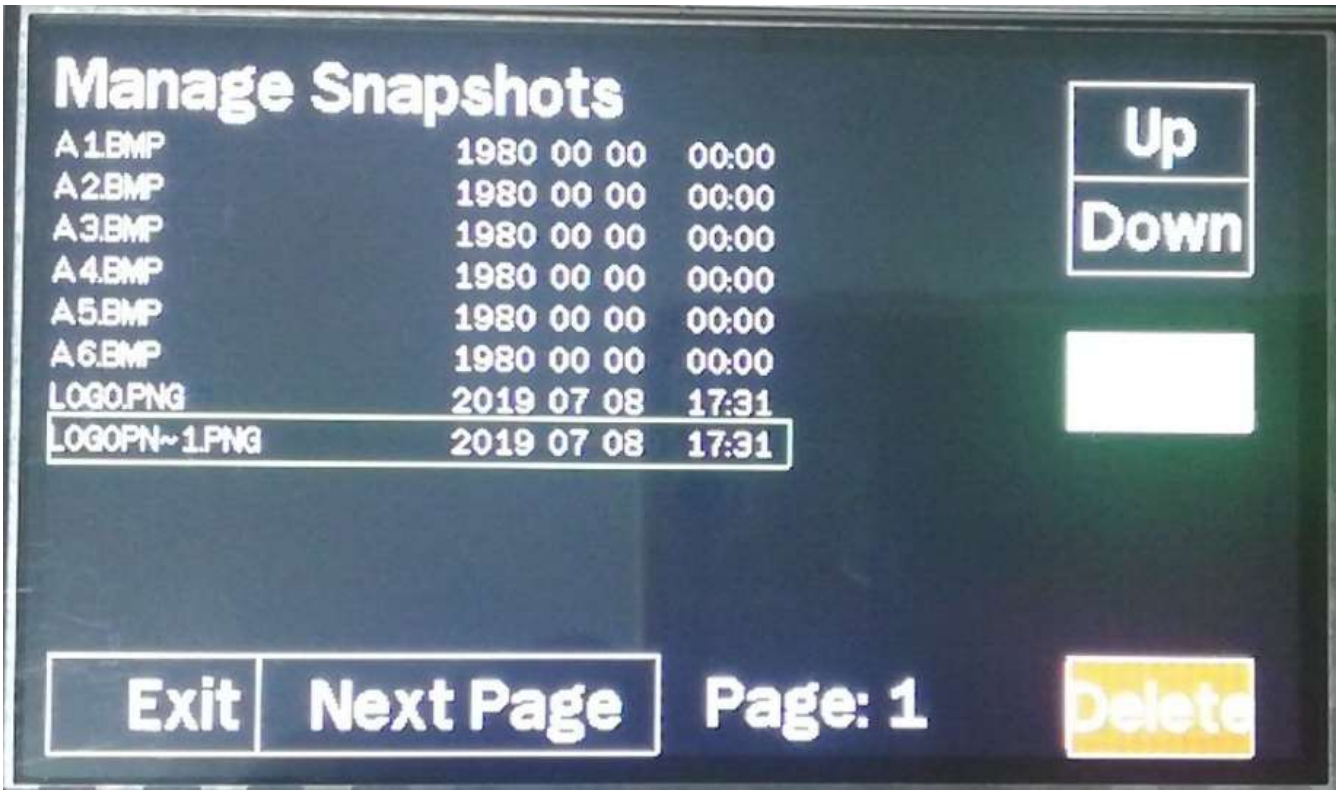
11.8 USB memory

Connect to the computer to view the memory

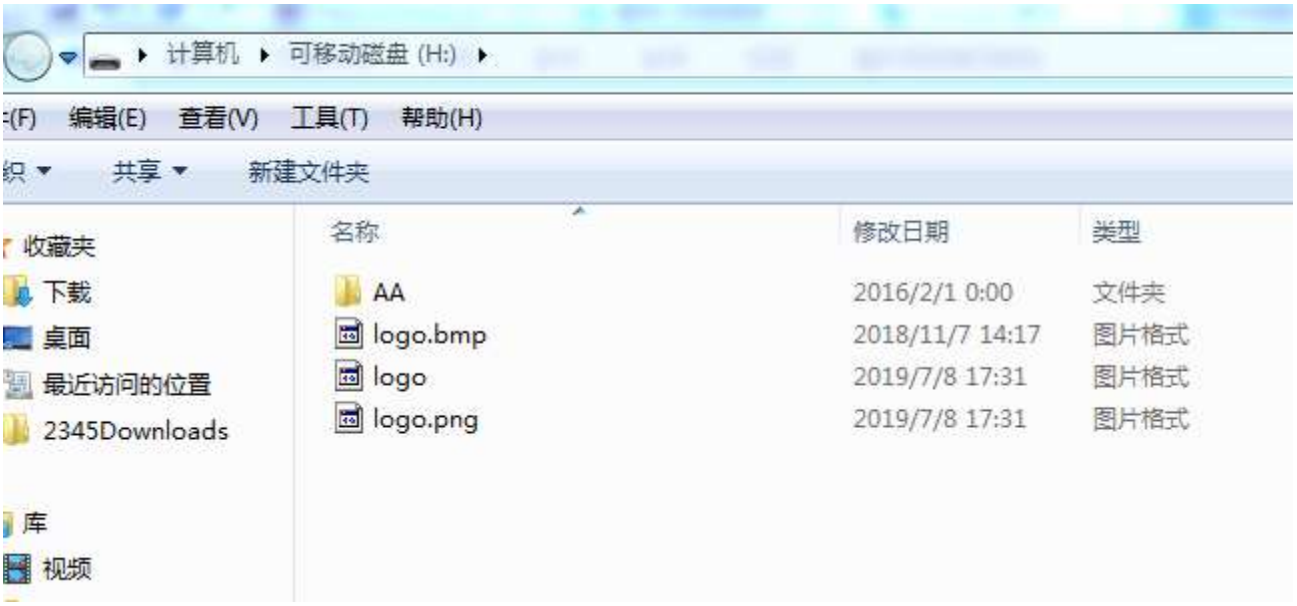


12. manage snapshot

You can view photos kept in SD memory



13. USB HS Reader USB



14. RF generator

Generator AM/FM

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

15.WSPR/FT8/JT65　　(V1.0, V3.5)