

# MINI600 Antenna analyzer



## Specification:

Frequency Range: 0.1-600MHz

HF/VHF/UHF continuous coverage 频率连续覆盖, 包含HF/VHF/UHF(FM广播)

In/Out Impedance: 50

Measurement Parameters: SWR, R, +Jx, -Jx, |Z|, Returnloss

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, smith chart

Connector Type: UHF N-type connector 接头N头

SMA OPEN-SHORT-LOAD Calibration Kit x 1

LCD size: 480x272 4.3" TFT LCD display

Touch Screen Type: Capacitive 电容触摸屏

All capacitive touchscreen on the display – no buttons are needed 全触摸屏操作

Power Source: USB or Internal Li-ion 内置锂电池

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

Maximum charging current: 5V/1.5A 充电电流最大1.5A

External Storage Method: TF card 需要插TF内存卡

Dimensions: 133·85·29 mm Does not contain prominent ports.

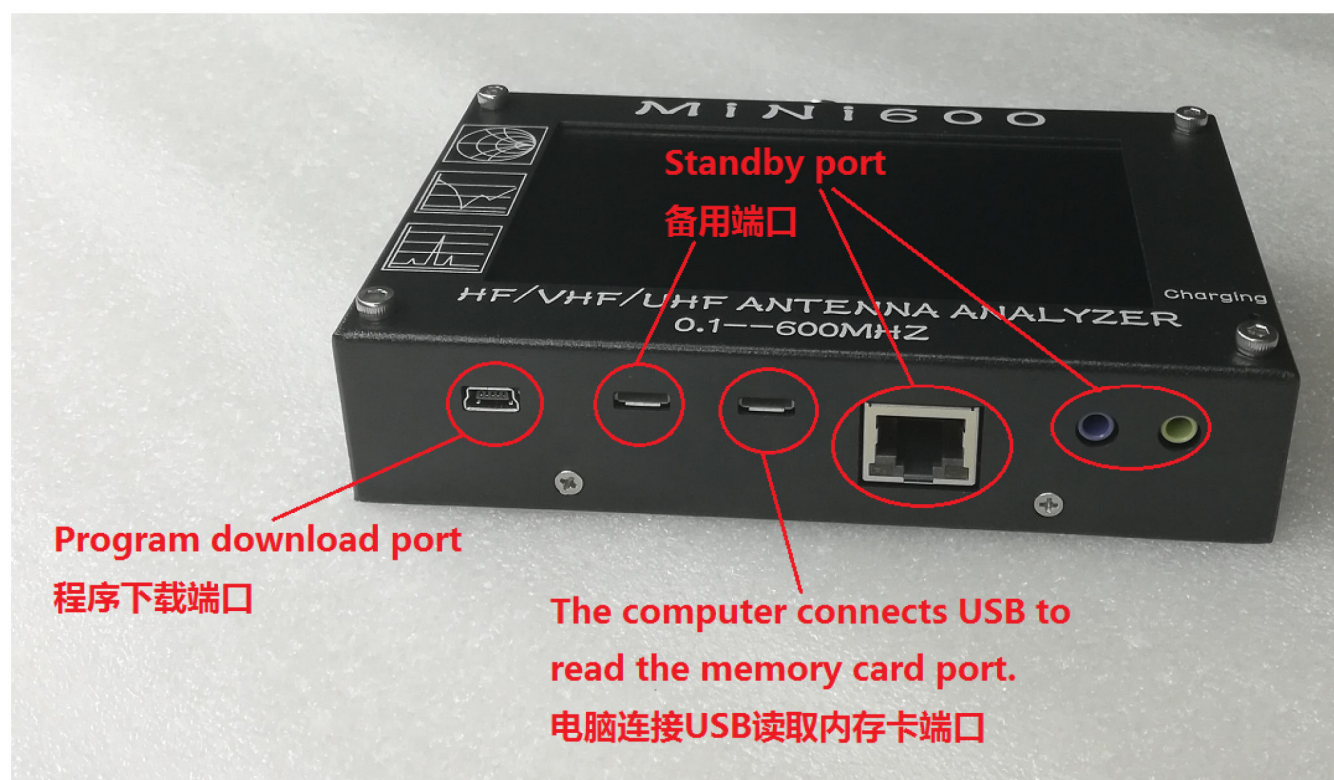
Weight: 550g

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

Package Included:

1 x 2018 New 0.1-600mhz HF/VHF/UHF Antenna Analyzer Capacitive Touch Screen

## Port specification 端口说明



## Main menu主菜单

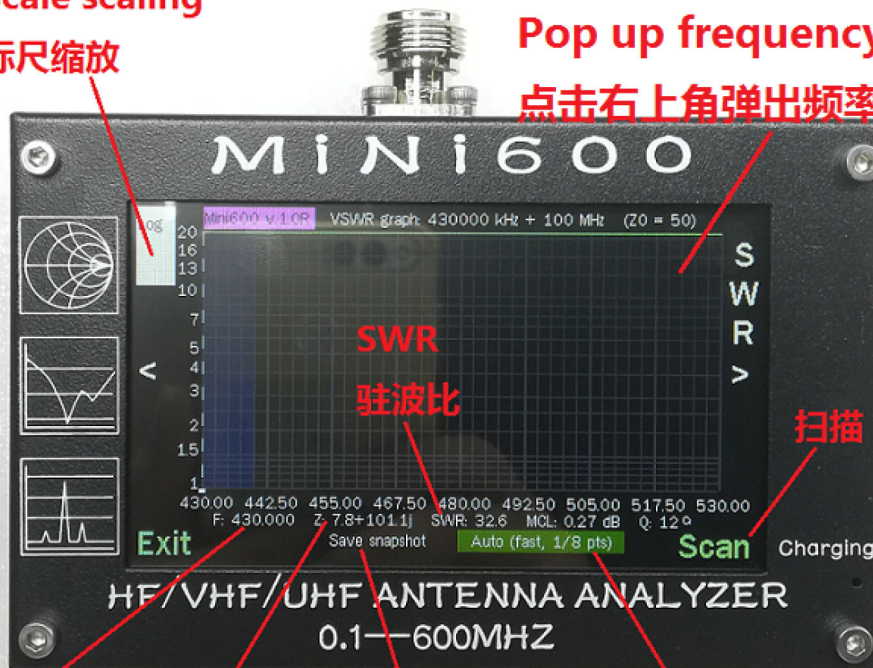


|                |                 |
|----------------|-----------------|
| Panoramic scan | 全景图谱扫描          |
| Measurement    | 圆图              |
| Generator      | 信号发生器, AM, FM调制 |
| Time Domain    | 测量馈线长度          |
| Multi SWR      | 多频段驻波比测量        |
| Setup          | 设置天分参数,         |
| Find Frequency | 频谱仪             |
| Tune SWR/Sound | 单频率驻波比          |
| View Pictures  | 调取保存的截图         |
| USB HS cardrdr | usb连接 可以读取内存卡资料 |

# 1. Panoramic scan 全景图谱扫描

Scale scaling  
标尺缩放

Click on the upper right corner.  
Pop up frequency menu  
点击右上角弹出频率菜单

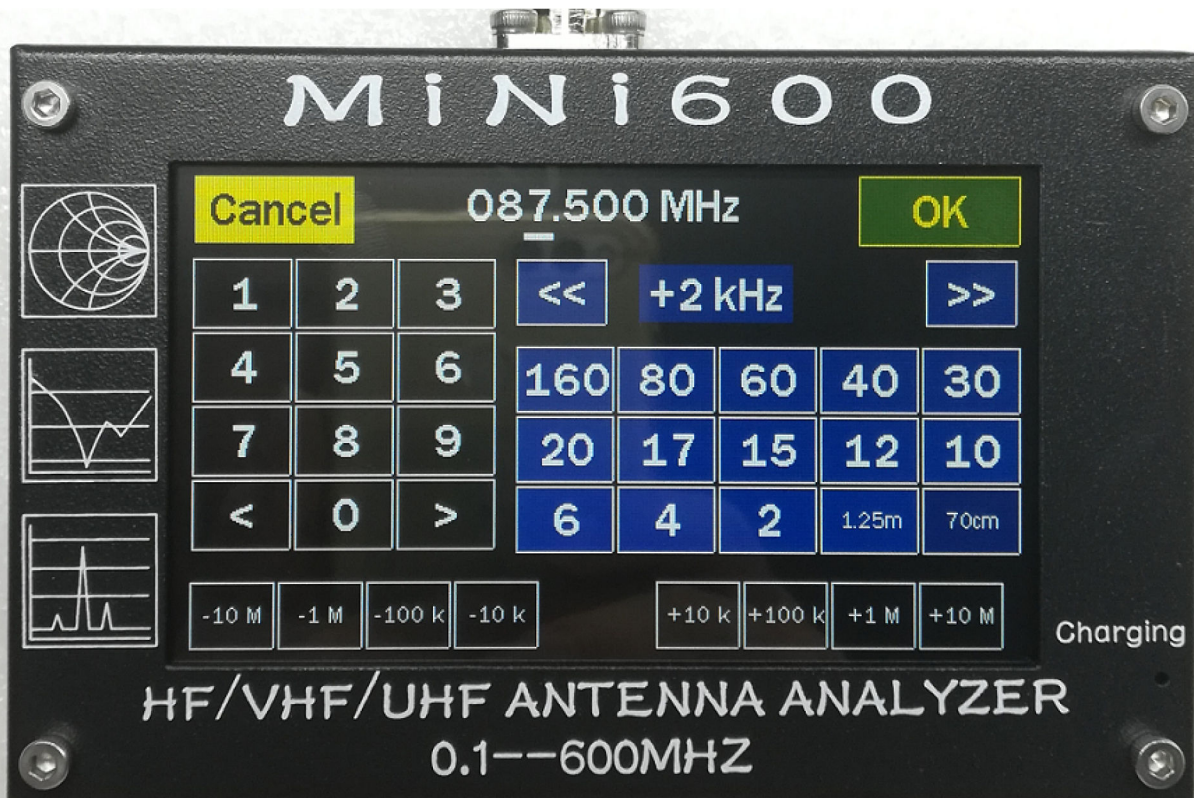


Minimum SWR  
frequency  
最低SWR频率

impedance  
阻抗

Save snapshot  
保存界面

Fast scanning  
快速扫描



## 2.Measurement



The buttons on top of the screen, the frequency can be changed stepwise. Set Frequency leads to the frequency selection

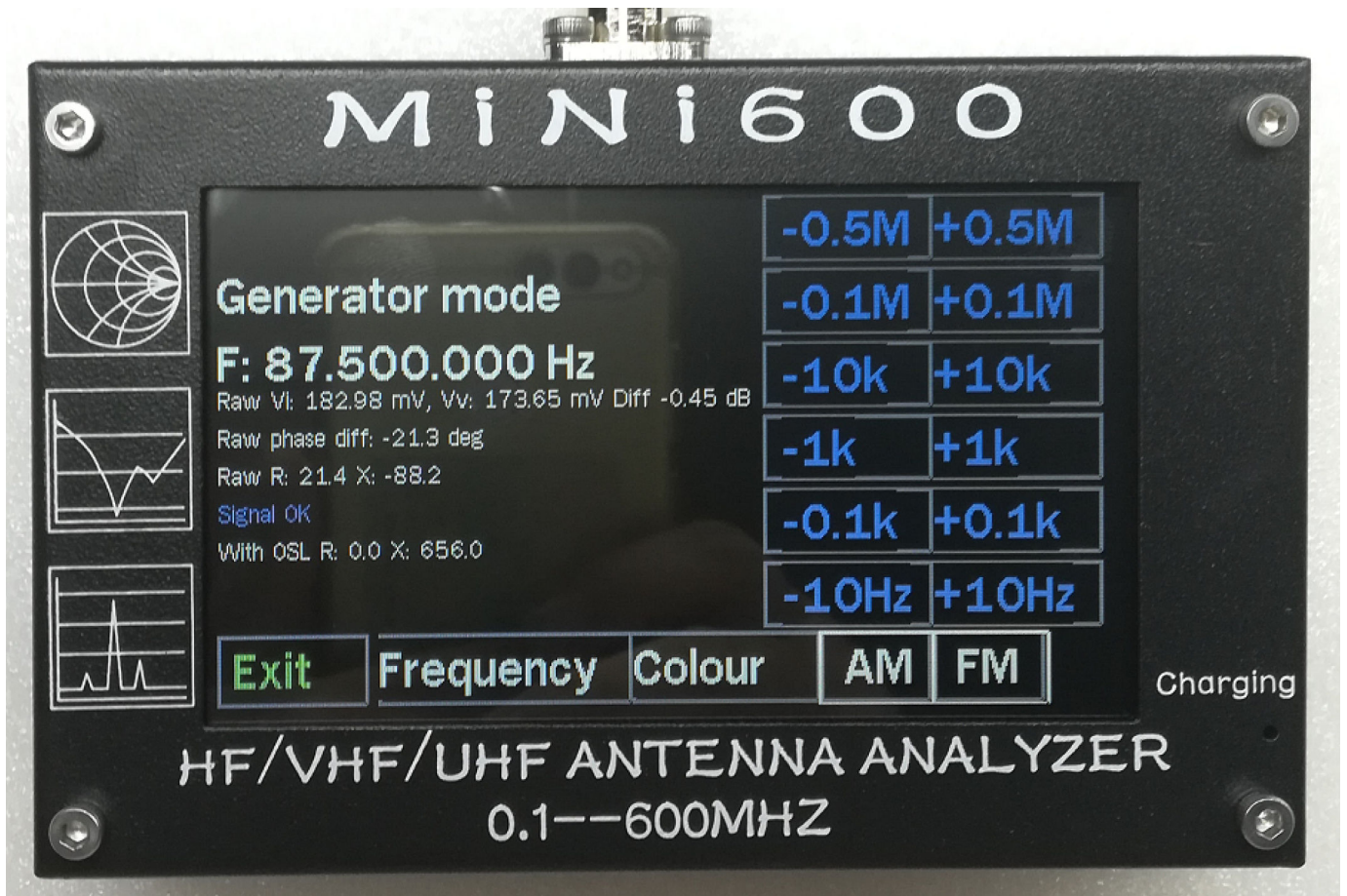
window as in Panoramic scan , The outlined area with the SWR display also includes the values of equivalent series

connection of the measured impedance. Touching this area switches to the equivalent parallel circuit:

Tapping the Smith chart shows the dimensioning of the 2 possible LC matching networks in order to transform the measured impedance to  $50 \Omega$ :

### 3. Generator

信号发生器，支持AM，FM调制



Color changes the screen colors

可以设置颜色

AM modulates the carrier at 500 Hz

AM以500HZ调制载波

FM causes a frequency shift of  $\pm 150$  Hz with 500 Hz

FM以500HZ调制载波，频偏-+150HZ

#### 4. Time Domain

#### 测量馈线长度



#### Cable Length

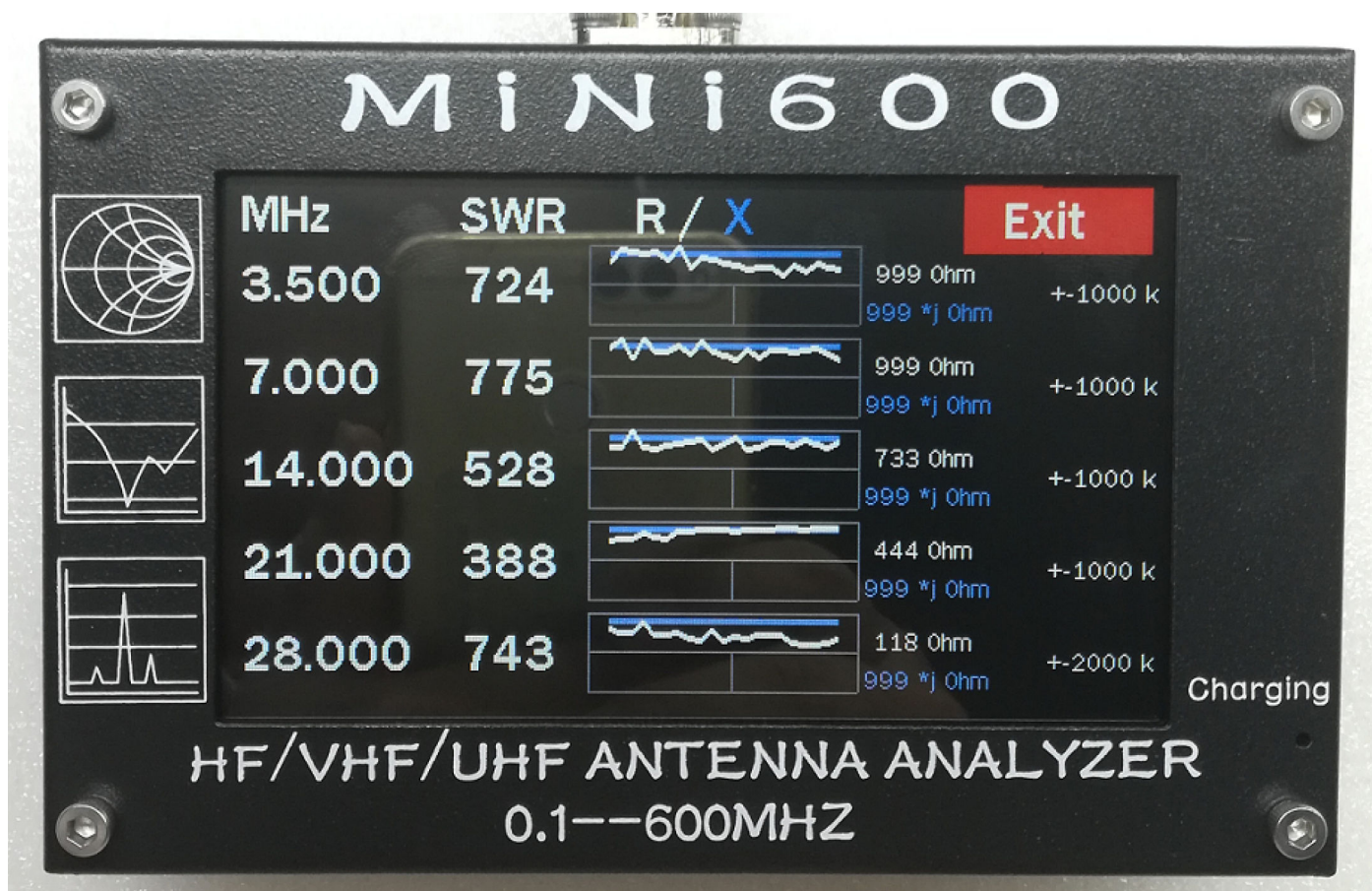
To determine the electrical length of cables or to locate cable faults. The cursor is automatically at the point of maximum discontinuity. The velocity factor can with CHF. Vf

be changed. Store volatile stores it only for current measurements, Store permanently however, permanently.

可以用于测量馈线长度或者查找馈线断点，不同的馈线设置不同的速率，界面可以保存

## 5.Multi SWR

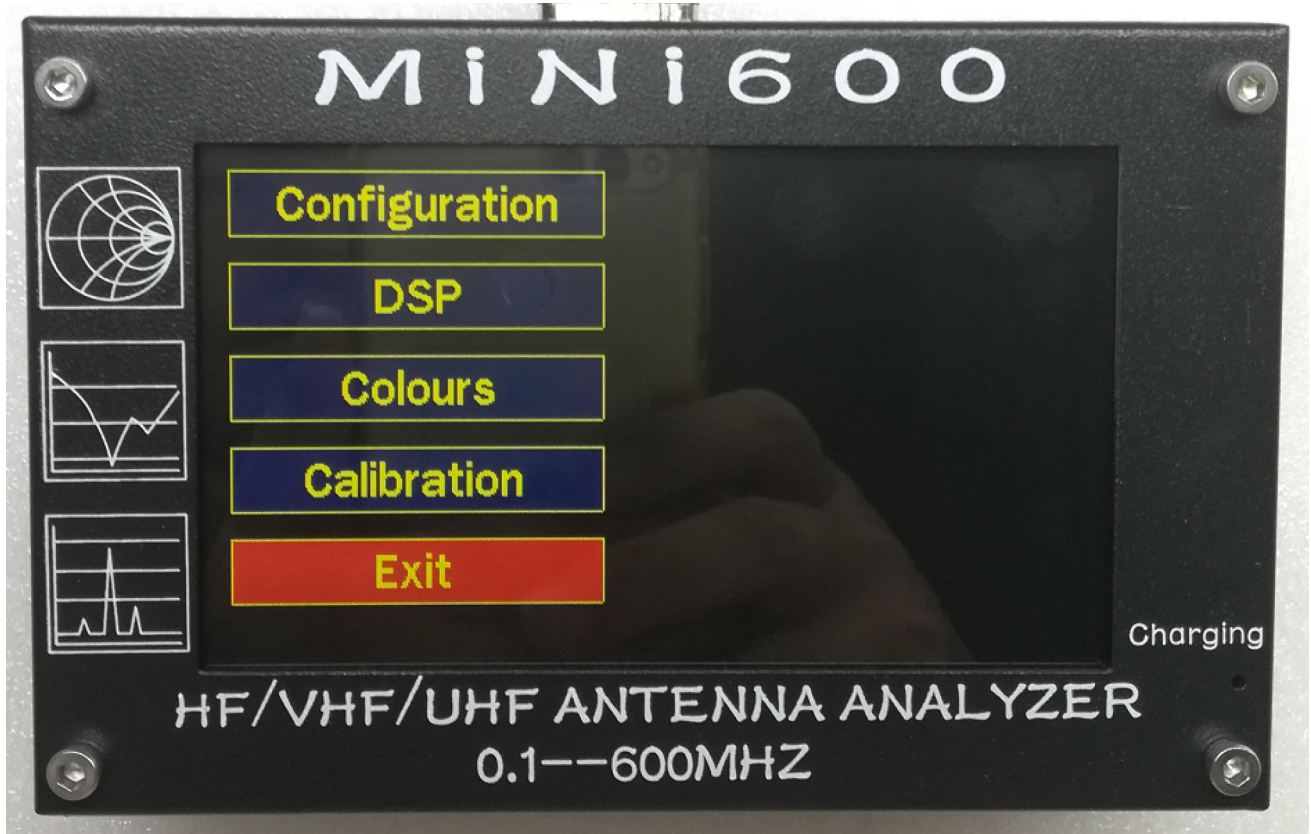
## 多频段驻波比测量



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.

点击频率数字会弹出频率和带宽设置选项，可以同时测试5个波段驻波比和阻抗



**Configuration** 设置天分工作配置

### DSP

indicates the noise level at the input of the controller board.

控制板噪声

### Colors

Changing screen colors.

屏幕颜色选项

### Calibration

#### OSL Calibration

The OSL required test resistors: 0  $\Omega$  (short circuit), 50  $\Omega$  (reference impedance), fire plugs (idle).

校准

默认设置短路5R ,负载50R,开路300R

## 7.Find Frequency 频谱仪



automobile : Continuous scan on / off  
连续扫描

Frequency : Choice of frequency and scanning  
频率和带宽选项

test : 3.5 MHz generator on /  
模拟测试3.5MHZ

Spectrum : Spectrum display on / off  
扫描开关

## 8.Tune SWR/Sound 单频率驻波比



Single SWR measurement  
Some features are not open

单路驻波比测量，部分功能没有开放

## 9.View Pictures

调取保存的抓图



View screenshots  
查看屏幕截图

10.USB HS cardrdr usb连接 可以读取内存卡资料



Connecting USB to the computer, you can view memory card information.

将USB连接到计算机，可以查看存储卡信息

Warning:

If the software is modified,

No further notice.

Taking product physical property as the criterion.

警告：

软件如果有修改，  
不另外通知，  
以产品实物为准