DIGITAL VHF/UHF 125-525MHz POWER & S.W.R. METER

CE

User Manuals

Features:
Forward / Reflected power / V.S.W.R. ratio
Frequency counter / transfer percent
Auto to measure DMR / analog
LCD backlight display

Specifications:

Max Power:	120W
VSWR:	1.00:1~19.99 :1
Frequency Range:	125MHz-525MHz
DC voltage power in:	+5V (micro usb)
Frequency counter:	+/- 0.1KHz (+/-5%)
Li-ion Battery :	3.7V Li-ion Battery
In /Out Impedance :	50 Ω
Size without Socket :	70*75*35 mm
(in and out) Interface:	N / SO239 (SL16)
Net Weight :	220g

Package

1x	S.W.R.Meter
1x	English Instructions
1x	USB charger Cable
1x	USB power Supply

Push [Blue button] for MENU

1	LCD DIM (Back Light Time)	0-9	1	"0" is OFF, 1 min to 9 mins
2	Auto Power Off Time	0-9	3	"0" is ON , 1 min to 9 mins
3	Adjustment analog frequency counter	-99 to +99	0	1=0.1KHz，-1=-0.1KHz
4	Adjust VHF power>5W offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
5	Adjust UHF power >5w offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
6	Adjust VHF low Power <5W offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
7	Adjust UHF low Power <5w offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
8	Adjustment DMR frequency counter	0 to 30	5	1=0.1KHz，-1=-0.1KHz

* Supplier, the product will add functionality without having to give notice

SET & SAVE:
1. Press MENU [Blue button].
2. Press F1 [Red button)(Select 1-8 Function).
3. Press [Blue button] (-), [Yellow button] (+).
4. Press the [Red button] 2 second and relest.
,show the save and exit page.
5. [Blue button] for save , [Yellow button] not save and exit.

Battery charger :
Connect external USB DC+5V source (e.g. USB charger) to micro USB input.
When display is showing 'E', it means the unit is powered by USB.
When display is showing 'B', it means the unit is powered by internal battery.

Connecting the Meter
TX : Connect to Radio antenna RF Output.
ANT : Connect to ANTENNA or 50 OHM Dummy Load.
(Proper adaptor/cable is required if .your device has different type of connectors.)
To connect the meter to your amateur radio and your antenna, you need a RG-58U
coaxial cable (not supplied) with PL-259 /N connectors on both ends. The cable must
reach from the back of the meter to your radio's antenna jack.

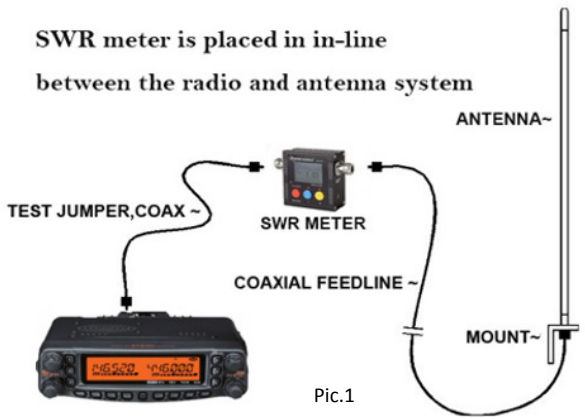
How to rotate the display:
Press Yellow button and hold to rotate display in 180 degree.

Read the data V.S.W.R. : (pic.1)
Measurement V.S.W.R. :
1)Radio antenna RF output connect to meter "TX" socket .
2)Antenna connect to meter "ANT" socket .
3)Push PTT from Radio, METER display is SWR measure data.
*TX Power must be 3 watt or more .

Test the output Watt of your transceiver :
Measurement Power:
1)Radio antenna RF output connect to meter "TX" socket .
2)50 Ohm Dummy connect to meter "ANT" socket .
3)Push PTT from Radio,
METER display (Forward Power) is Power measure data .

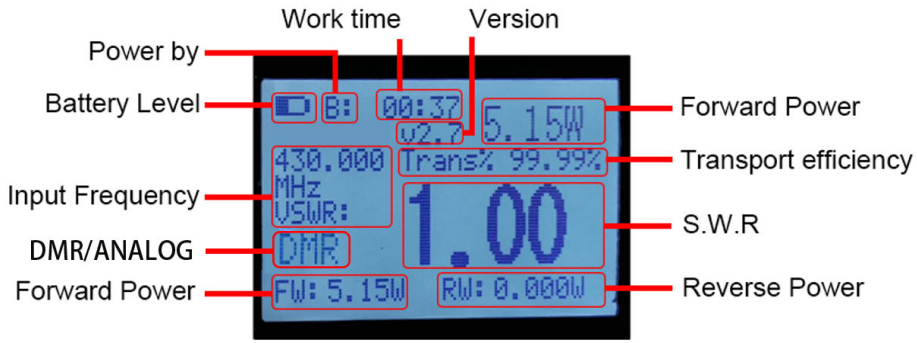
TYPE : SO239 (SL16)

TYPE: N



Pic.1

LCD DISPLAY



Interpreting S.W.R. Readings
The ideal SWR reading is 1.0, but this reading is usually possible only under laboratory conditions or with a dummy load. Actual antenna installations have higher readings. The information below will help you interpret the readings you get.

S.W.R.	Efficiency	Interpretation
1.0 to 1.5	Excellent	The antenna cable and the antenna length match the transmitter's output requirements almost perfectly
1.5 to 1.99	Very good	The antenna, the cable, and the transmitter operate very efficiently
2.0 to 2.99	Acceptable	The antenna, the cable, and the transmitter operate with some loss. If possible, adjust your antenna or antenna mounting system to improve.
Above 3.0	Inefficient	Adjust your antenna or antenna mounting system to improve efficiency.

数字 VHF/UHF 125-525MHz
功率和 驻波比计

用户手册

CE

特征：
正向/反射功率/驻波比 比率
频率计/传输功率百分比
自动测量DMR/模拟
液晶背光显示屏

规格：

最大功率：	120W
驻波比：	1.00:1~19.99 :1
频率范围：	125MHz-525MHz
直流电源工作于：	+5V (micro usb)
频率计数器：	+/- 0.1KHz (+/-5%)
电池类型：	3.7V Li-ion Battery
输入/输出阻抗：	50 Ω
不带插座的尺寸：	70*75*35 mm
（进出）接口：	N / SO239 (SL16)
净重：	220g

包裹

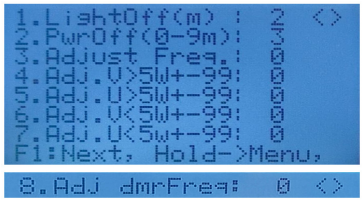
1x	驻波比计
1x	中/英文说明书
1x	USB 充电器线
1x	USB 电源

按 [蓝色按钮] 进入菜单

1	背光显示的时间	0-9	1	"0" 常亮，1 分钟 至 9 分钟
2	自动关机时间	0-9	3	"0" 常开 1 分钟 至 9 分钟
3	模拟调整频率计调整误差	-99 to +99	0	1=0.1KHz，-1=-0.1KHz
4	调整 VHF 功率>5W 误差	-99 to +99	0	"1" 表示上升 1%， "-1" 表示下降 1%
5	调整 UHF 功率>5W 误差	-99 to +99	0	"1" 表示上升 1%， "-1" 表示下降 1%
6	调整 VHF 低功率 <5W 误差	-99 to +99	0	"1" 表示上升 1%， "-1" 表示下降 1%
7	调整 UHF 低功率 <5w 误差	-99 to +99	0	"1" 表示上升 1%， "-1" 表示下降 1%
8	DMR频率计调整误差	0 to 30	5	1=0.1KHz，-1=-0.1KHz

*** 产品规格如有变更，恕不另行通知**

功能数据设定/储存：
1.按(蓝色按钮) MENU 进入菜单
2.按(红色按钮)F1键,选择1-8功能
3.按(蓝色按钮) 或(黄色按钮) 选择 - / +
4.长按[红色按钮] 2秒后松开,会显示 [保存]及[退出]
5.【蓝色按钮】保存，【黄色按钮】不保存并退出



充电：
USB接口采用5V输入
当显示屏显示 “E”时，表示设备由 USB 供电
当显示屏显示 “B”时，表示设备由内置电池供电

连接仪表:
TX：连接到对讲机输出
ANT：连接到天线或假负载
（如果您的设备有不同类型的连接器，则需要合适的适配器/电缆）)
要将仪表连接到对讲机和天线，您需要一條两端為 PL-259 /N 连接器的 RG-58U 同轴电缆（未提供）。电缆必须从仪表背面延伸到对讲机的天线插孔。

SO239/
SL16型

N型

如何使显示屏旋转：
按住黄色按钮並将显示屏旋转 180 度

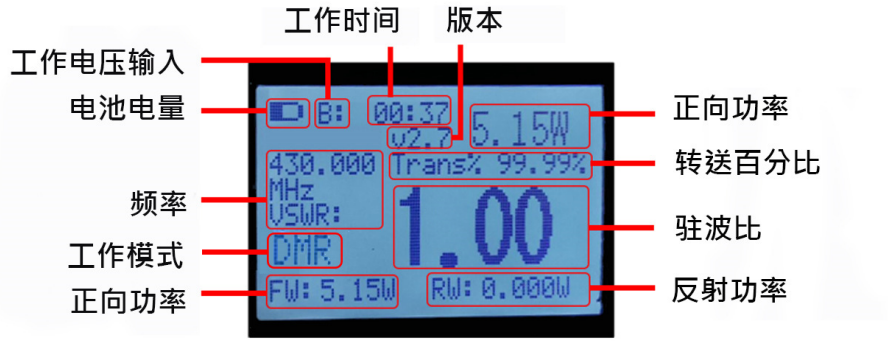
读取数据V.S.W.R.：（图片 1）
测量 V.S.W.R.：
1)无线电天线RF輸出连接至仪表 “TX” 插座
2)天线连接到仪表 “ANT” 插座
3)从无线电按下 PTT，仪表显示的就是 驻波比读数
***TX 功率必须为 3-5 瓦或以上**

测试收发器的輸出瓦数：
测量功率：
1) 无线电天线 RF 輸出连接到仪表 “TX” 插座。
2) 50 欧姆假负载连接到仪表 “ANT” 插座
3) 从无线电按下 PTT
仪表显示（正向功率）是功率测量数据.

驻波比表计放置在对讲机和天线系统之间

图片 1

LCD 显示屏



解释 S.W.R. 驻波比读数:
理想的 SWR驻波比读数为 1.0，但通常只有在实验室条件下或使用假负载时才有可能获得此读数。
实际天线安装的读数更高。以下信息将帮助您解释获得的读数。

S.W.R. 驻波比	效能	解释
1.0 至 1.5	出色的	天线电缆和天线长度几乎完美匹配发射器的输出要求
1.5 至 1.99	非常好	天线、电缆和发射器运行非常高效
2.0 至 2.99	可接受	天线、电缆和发射器在工作时都会产生一些损耗，如果可能，请调整天线或天线安装系统以改善损耗
多于 3.0	低效	调整天线或天线安装系统以提高效率