SW-102
Digital VHF/UHF 125-525MHz
Power & S.W.R. Meter

USER'S MANUAL

CE

UP to V2.02

Key Specifications/Special Features:
Detect S.W.R.
Measurement Power
Measurement Frequency counter

Specifications:

Model:	SW-102
Max Power:	120W
VSWR:	1.00-19.99
Frequency Range:	Cover:125MHz-525MHz
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(SL16) / SO239
Net Weight :	220g
Package	
1x	SW-102 meter
1x	English Instructions
1x	USB charger Cable
1x	USB power Supply

How to Connect Radio :
 TX : Connect to RADIO RF Output
ANT : Connect to ANTENNA or 50 OHM Dummy Load

How to charger :
Connect external USB 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.

How to check the S.W.R. of your Antenna :
Connect to "TX" on Radio output and Antenna to "ANT". Proper adaptor/cable is required if your device
has different type of connectors.
1)Measurement V.S.W.R. :
2)SW-102 TX connect Radio RF out
3)Radio TX , SW-102 with display S.W.R. measure data.
*Do not affect the test in the following cases, there are objects nearby and placed horizontally.

How to check the output Watt of your transceiver :
Connect to "TX" on Radio output and dummy Load to "ANT". Proper adaptor/cable is required if your
device has different type of connectors.
1)Measurement Power:
2)SW-102 TX connect Radio RF out
3)SW-102 ANT connect 50 ohm Dummy Load
4)Push Radio TX , SW-102 display is Power measure data.
*(SW-102 is not for DMR system)

Push [Blue botton] for MENU

1	LCD DIM (Back Light Time)	0-9	1	"0" is OFF, 1 min to 9 mins
2	POWER OFF	0-9	3	"0" is ON , 1 min to 9 mins
3	Adjustment frequency counter	-99 to +99	0	1=0.1KHz , -1=-0.1KHz
4	Adjust VHF power offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
5	Adjust UHF power offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
6	Adjust VHF low Power offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%
7	Adjust UHF lowPower offset	-99 to +99	0	"1" is up to 1%,"-1" is down to 1%

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

Set & SAVE:
1. Press MENU [Blue botton]
2. Press F1 [Red botton](Select 1-7 Function)
3. Press [Blue botton] (-), [Yellow botton] (+)
4. Press the [Red botton]for 2 seconds
5. Press the [Red botton] 2 second and relest ,show the save and exit page
6. [Blue botton] for save , [Yellow botton] not save and exit

Trouble shooting

1. No Operation?
-PLease charge with USB cable +5V , or come with PSU .
-Push and hold on the "RED" botton .
-Replacement battery when battery dead. (below Ver 5.1 use by 14500battery,V1.X use by li-ion polymer battery.
-There are still problems with steps 1. and 2.and 3., please contact service center.

2.Watt /SWR read data is not hold on ?
-Some Radio problem when end of TX
.Radio output TX is not stabilizing.

3.Read the watt data is not accurate ?
-SW-102 is not for DMR system
-Don't not use the antenna get the watt data.
-Please use the correct power dummy load to measure (must be 50 OHM)
-The data read error when not read the frequency from radio
-The TX input is weak , Input Watt below 0.5W

4.Read the S.W.R. data is not accurate?
-SW-102 is not for DMR system
-Do not affect the test in the following cases, there are objects nearby
-Do not affect the test in the following cases,placed horizontally.

5. Read the Frequency counter is not display or read frequency not accurate?
 e.g. Radio is 145.000 , read 145.003, SW-102 is not for DMR system
-Input below 0.5W
-Please use menu mode and fine tune the frequency offset.

6.Display have problem ? e.g.BLack or Garbled or no Display
-Restart the SW-102, Remove the inside battery.
-There are still problems with steps 1. and 2., please contact service center.

7. How to RESET the mirco chip
-Off mode ,Hold the Red button and the display show "restore to default "
-There are still problems with steps 1. and 2., please remove the battery.
**All Specifications are subject to change without notice