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ITEM DETAILS

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Item Code: SF-401 PLUS
Product Name: SF401 PLUS Portable Frequency Counter with CTCSS/CDCS
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Description

OPTIONAL : Tailor made Multi-language

English, French, German, Russian, Japanese, Chinese Traditional.....



| Model | Country (Market) | Language |
|--|--------------------|----------|
| SF-401 PLUS | USA,UK,CANADA.. | ENGLISH |
| Below Model for tailor made Multi-language | | |
| SF-401 PLUS-C | CHINA | 简体 |
| SF-401 PLUS-F | France | français |
| SF-401 PLUS-H | HONGKONG, TAIWAN | 繁體 |
| SF-401 PLUS-I | India | हिन्दी |
| SF-401 PLUS-J | JAPAN | 日本語 |
| SF-401 PLUS-K | Korea | 한국의 |
| SF-401 PLUS-M | Malaysia | Malay |
| SF-401 PLUS-R | RUSSIAN FEDERATION | русский |
| SF-401 PLUS-S | Spain | |
| SF-401 PLUS-T | Thailand | ไทย |

Introduction:

- The frequency meter capable of measuring the parameters of the frequency of the continuous carrier signal walkie-talkies , with signal strength indicator.
- it is the tool of choice for maintenance personnel ,test frequency and signal strength of wireless enthusiasts.
- This portable frequency counter is designed for counting continuous wave signal comes from Two-way Radio.
- There are easy ranges for you to choose. The ranges cover most of the frequency of the two way radios you want to measure.
- Its four-button control is easy to use and its small size allows you to carry it anywhere you like.
- Work by TCXO(Temperature Compensate X'tal (crystal) Oscillator) ,In the range of -45 °C ~ 65 °C can reach $\pm 2 \sim \pm 4$ ppm accuracy
- This include very interesting frequency areas such as 2m HAM radio, all VHF and UHF
- DMR Radio signal e frequency counter.
- Easy Battery level

Feature & Specification:

- Frequency range: 100Mhz-3000Mhz
- **! Note: (27MHz to 100MHz It can not be guaranteed and the corresponding normal emission appliance)**
- CTCSS/DCS Decoder
- LCD Dim level setting
- Frequency digital 0.000 or 0.0000 (± 0.001)
- Work by TCXO(Temperature Compensate X'tal (crystal) Oscillator) 2 ~ 2.5ppm

- Frequency Response time: 0.2-0.5sec.(CTCSS/CDCSS >0.5-1sec)
- TFT Color Display 240 x 320
- Build-in Li-ion battery
- Net Weight: 113g
- 4 buttons control
- Auto power off 1-9minutes
- Charging battery LED indicator
- Charging battery LED indicator

| Specifications: | | | |
|---------------------------|------------------|---------|--------------------|
| Brand Name: | SURECOM HK | SF-401 | SF-401-PLUS |
| DIGITAL RADIO signal | DMR | No | YES |
| Signal attenuation s.w. | -10db | No | YES |
| Battery Buily-in | level | Voltage | Easy icon |
| Flash Light | LED | YES | NO |
| TFT LCD: | 320 x 240 pixels | YES | YES |
| Frequency Range: | 27Mhz -3Ghz | YES | YES |
| Li-ion Battery build-in : | 3.7V 600mah | YES | YES |
| current consumption: | 10ma | YES | YES |
| TCXO crystal Oscillator | +~ 2.5ppm | YES | YES |
| Changer in: | Micro usb +5V | YES | YES |
| impedance input: | 50 Ohm (BNC) | YES | YES |
| Weight: | 113g | YES | YES |
| Dimensions size : | 70 x 25 x 90mm | YES | YES |

SF-401/PLUS



PIC.1



PIC.2

Power On/Off

Power On –Press and Hold down the [black key] by 2 second

Power Off –Press and Hold down the [black key] by 4 second of number count down to 0

Charging the battery

Plug the Power cord into adaptor , Micro USB connected SF-401, The Led indicating:

*The RED Led is light - Charging

* The Green Led is light - Full

How to check Frequency measuring. See Pic.3

The transmitter near the frequency counter antenna , see the signal reception conditions is zone green, you can test. Please see Pic.3

cautions:

e.g. display 1800.000Mhz , The transmitter distance is too close to the frequency counter will affect the test results, , the signal bar is red .(see Pic.1)

e.g. display 0.000 , The transmitter distance is too far to the frequency counter and signal is weak ,will affect the test results, the signal bar is low .

(see Pic.1)

! Note: (27MHz to 100MHz It can not be guaranteed and the corresponding normal emission appliance) .

How to check Frequency of Digital DMR Radio

Press[F3 Digital] from Measuring screen

Note. Digital model have 3 Decimal only

MENU funtion setting and save. See PIC.4

Press [F1] > into menu Page

Press [F3 down] or [F4 Up] into System and Press [F2 Rtn] into system Page PIC.4

Press[F3 down] or [F4 Up] select funtion ,Press [F2 Edit] > [F3 -][F4 +] change mode

Press[Menu] > [F1]to Exit or [F4] to Save and Exit

CTCSS/DCS Decoder for ANALOG mode**CTCSS**

| CTCSS (Hz) | | | |
|------------|-------|-------|-------|
| 50.0 | 97.4 | 151.4 | 192.8 |
| 55.0 | 100.0 | 156.7 | 196.6 |
| 67.0 | 103.5 | 159.8 | 199.5 |
| 69.3 | 107.2 | 162.2 | 203.5 |
| 71.9 | 110.9 | 165.5 | 206.5 |
| 74.4 | 114.8 | 167.9 | 210.7 |
| 77.0 | 118.8 | 171.3 | 218.1 |
| 79.7 | 123.0 | 173.8 | 225.7 |
| 82.5 | 127.3 | 177.3 | 229.1 |
| 85.4 | 131.8 | 179.9 | 233.6 |
| 88.5 | 136.5 | 183.5 | 241.8 |
| 91.5 | 141.3 | 186.2 | 250.3 |
| 94.8 | 146.2 | 189.9 | 254.1 |

CDCSS

| Standard | sf401 check | | Standard | sf401 check | | Standard | sf401 check | | Standard | sf401 check |
|----------|----------------|--|----------|----------------|--|----------|----------------|--|----------|----------------|
| 23 | 23 | | 143 | 143 | | | 266 | | 465 | 465 |
| 25 | 25 | | | 145 | | 271 | 271 | | 466 | 466 |
| 26 | 26 | | 152 | 152 | | | 274 | | 503 | 503 |
| 31 | 31 | | 155 | 155 | | 306 | 306 | | 506 | 506 |
| 32 | 32 | | 156 | 156 | | 311 | 311 | | 516 | 516 |
| | 36 | | 162 | 162 | | 315 | 315 | | 532 | 532 |
| 43 | 43 | | 165 | 165 | | | 325 | | 546 | 546 |
| 47 | 47 | | 172 | 172 | | 331 | 331 | | 565 | 565 |
| 51 | 51 | | 174 | 174 | | | 332 | | 606 | 606 |
| | 53 | | 205 | 205 | | 343 | 343 | | 612 | 612 |
| 54 | 54 | | | 212 | | 346 | 346 | | 624 | 624 |
| 65 | 65 | | 223 | 223 | | 351 | 351 | | 627 | 627 |
| 71 | 71 | | | 225 | | | 356 | | 631 | 631 |
| 72 | 72 | | 226 | 226 | | 364 | 364 | | 632 | 632 |
| 73 | 73 | | 243 | 243 | | 365 | 365 | | 654 | 654 |
| 74 | 74 | | 244 | 244 | | 371 | 371 | | 662 | 662 |
| 114 | 114 | | 245 | 245 | | 411 | 411 | | 664 | 664 |
| 115 | 115 | | | 246 | | 412 | 412 | | 703 | 703 |
| 116 | 116 | | 251 | 251 | | 413 | 413 | | 712 | 712 |
| | 122 | | | 252 | | 423 | 423 | | 723 | 723 |
| 125 | 125 | | | 255 | | 431 | 431 | | 731 | 731 |
| 131 | 131 | | 261 | 261 | | 432 | 432 | | 732 | 732 |
| 132 | 132 | | 263 | 263 | | 445 | 445 | | 734 | 734 |
| 134 | 134 | | 265 | 265 | | 464 | 464 | | 743 | 743 |
| | | | | | | | | | 754 | 754 |

Package Contents**1x SF401 PLUS Frequency Counter**

1 x UHF Antenna
1x English User Manual
1x USB charger cable
1x USB AC adapter 100-240V





**Note that different frequencies have different sensitivities
, if the signal is too weak, to replace the antenna.**

[Q&A of SF-401 plus Frequency Counter](#)

Problem: Frequency counter cannot check VHF frequency

Solutions:

- 1) Switch the ATT button into left hand side
- 2) Then change the antenna into VHF or Dual band, as customer are using UHF antenna, but checking VHF band
- 3) If you really using the UHF antenna to check it, please try to slant your radio to the frequency counter, like the following picture

http://www.pic.409shop.com/photo/SF-401plus_problem.jpg



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