

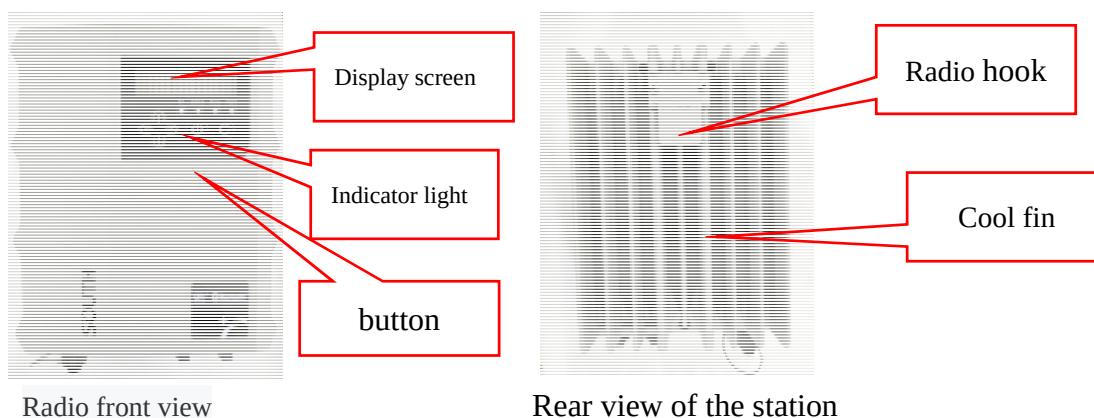
The instruction manual Of S6 external radio

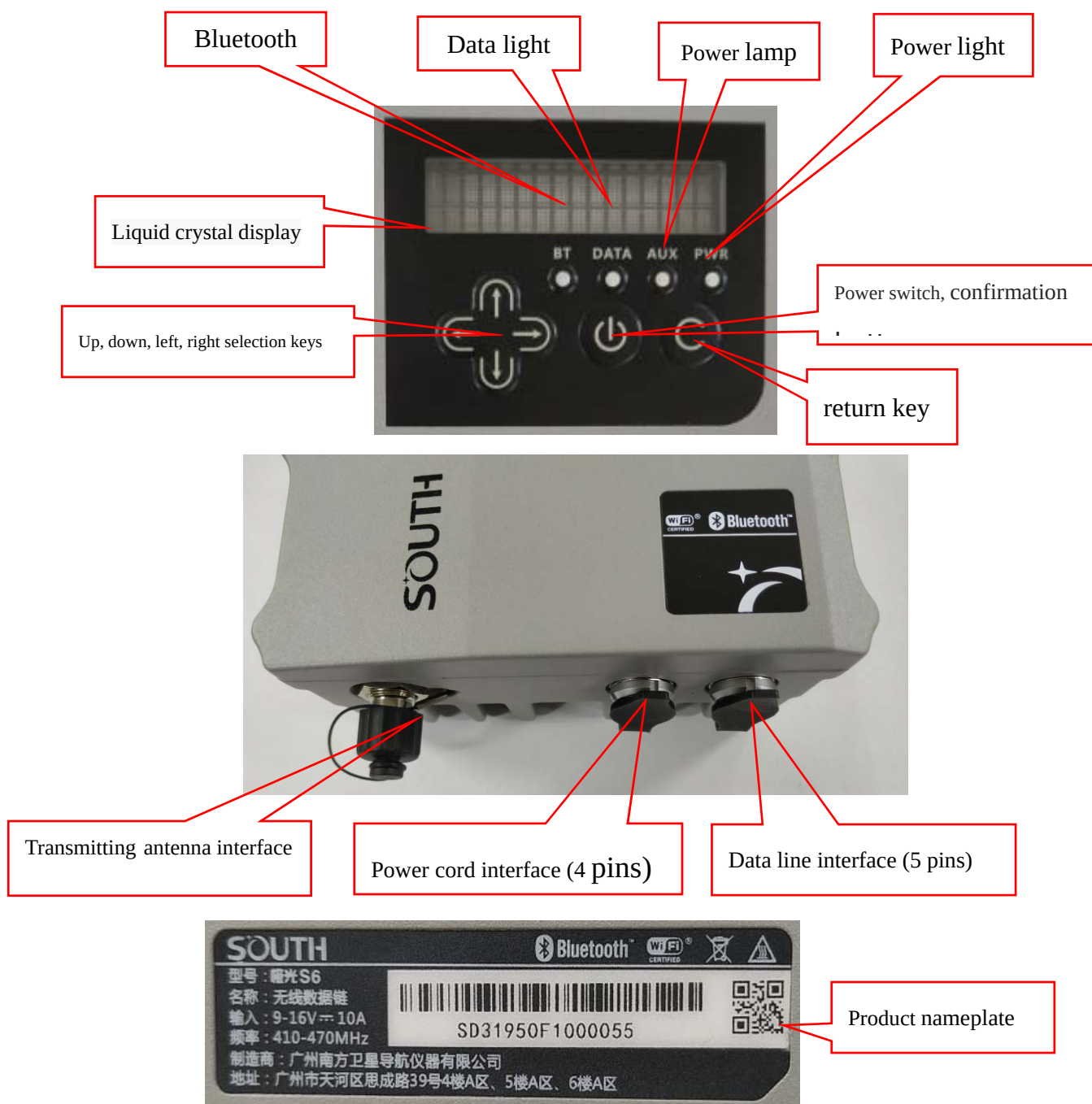
Chapter1.Product introduction

S6 radio is a new intelligent external radio station newly developed by Southern Satellite Navigation. It has the advantages of superior performance, comprehensive functions and easy operation. Especially on the issue of serial frequency of the radio, the S6 radio has built in up to 10 radio protocols and 120 radio channels. Thoroughly solve the unnecessary troubles brought about by the work for the customer. In the characteristics of the wireless use function, the radio and the host can wirelessly transmit data and wirelessly control the radio. The radio station has added a background webpage function, and the operation is simpler and more user-friendly.

Chapter2.Product appearance and accessories

1. The introduction of product appearance





2. The introduction of Radio accessories:



Radio power cord (4-pin interface)



Radio data cable (5-pin interface)



Radio transmitting antenna

Chapter3. Radio display interface and function introduction



The first display interface: satellite receiver system initialization information interface.



The second display interface: the radio quick setting interface. The above listed radio channel information, the radio channel can be adjusted by pressing the direction selection button and the down button. The following listed radio power information, the radio power can be adjusted by left and right key. Press the enter key to switch to the next screen.



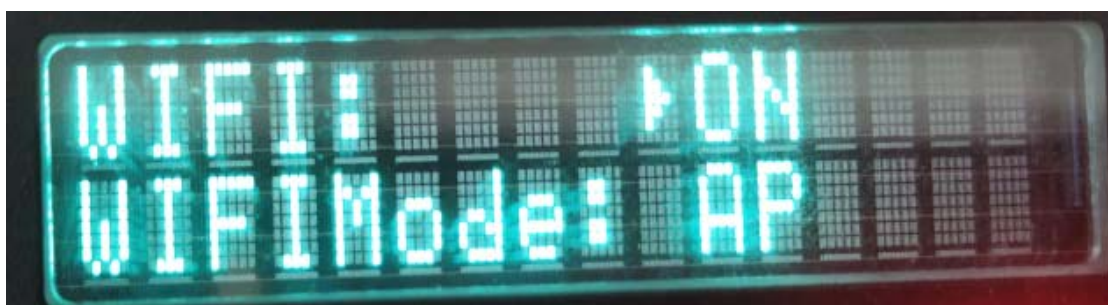
The third display interface: interface of adjusting the radio channel



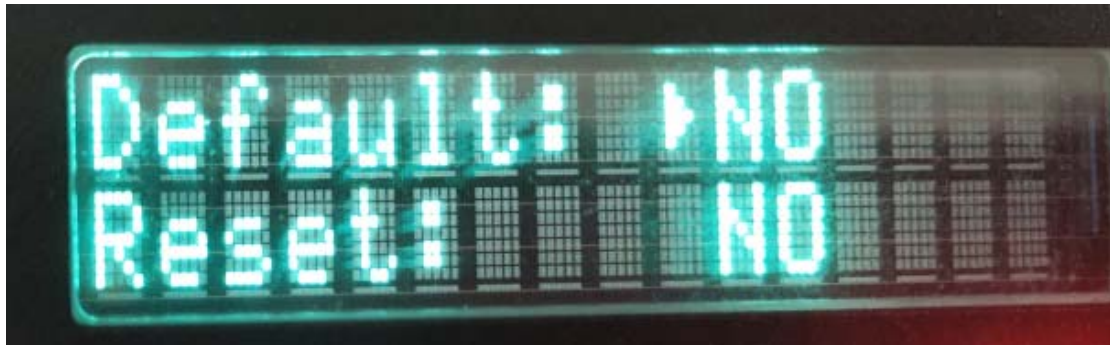
The fourth display interface: the above listed adjusts the radio power. L represents low power. M represents medium power. H represents high power. The following is the tuner protocol interface. (This interface press the confirm button to enter the page turning interface)



The fifth display interface: the above listed is Bluetooth switch . The following is Bluetooth mode: Slave mode and Master mode.



The sixth display interface: the above listed is WIFI switch. The following is WIFI mode : AP hotspot and CLI client mode interface



The seventh display interface: the above listed is the resets radio factory setting. The following is restarted key. (Please press the enter key after selecting the relevant information to modify the station information)



The eighth display interface: radio body number interface



The 9th display interface: the radio background webpage login IP interface



The 10th display interface: the above listed is host temperature and the following is radio amplifier temperature interface



The 11th display interface: radio firmware version interface



The 12th display interface: Whether to perform the close radio interface (press and hold the power off button for 3 seconds to put this meeting to display this message, press "Confirm" to turn off the radio)



The 13th display interface: the radio interface is being closed.

Chapter 3.The introduction of radio website:

1. Login page

Connect the radio WIFI hotspot, open the web page, enter the radio backstage webpage IP 10.1.1.1 will pop up the login account interface below, enter the account admin password admin to enter the login. (Users are free to choose electronic products to log in)

GNSS Web Server

用户名:

密 码:

用户登录

重 置

Radio page as shown below



2 Web page function and usage introduction

2.1 Host status = system information + working status (only displays information and status when no setting function) as shown below.



2.2 Host configuration = host control (settable function) as shown below

Function: 1. Motherboard 2. Radio 3. Network 4. WiFi 5. Bluetooth 6. Sensor 7. EEPROM Start self-test can be a single self-test or all self-test, clear satellite ephemeris. Restore factory settings. Restart the host. Turn off the host.

> WIFI设置

启用: ☒

工作模式: ☒ AP ☐ Client

AP_SSID: SOUTH_0055

AP_Password: southgnss.com.cn

AP加密方式: 开放

AP信道: 1

DHCP IP范围: ☐ 192.168. .0/255.255.255.0 (默认)

☐ 172.16. .0/255.255.255.0 (默认)

☒ 10. 1 . 1 .0/255.255.255.0

确定

取消

> 电台参数

启用: ☒

空中波特率: 9600

数据波特率: 19200

通道号: 41~60

通道: 59

功率: 中

协议: SOUTH

数据源: 五芯串口

最高温度: 90 °C

最低温度: - 28 °C

恢复出厂值设置:

恢复出厂值设置

确定

取消

> 电台频率

通道号: 1~20

通道1频率: 460.125 MHZ

通道2频率: 464.125 MHZ

通道3频率: 465.125 MHZ

通道4频率: 466.125 MHZ

通道5频率: 463.625 MHZ

通道6频率: 464.625 MHZ

通道7频率: 465.625 MHZ

通道8频率: 466.625 MHZ

通道9频率: 460.125 MHZ

通道10频率: 460.625 MHZ

通道11频率: 461.125 MHZ

通道12频率: 461.625 MHZ

通道13频率: 462.125 MHZ

通道14频率: 462.625 MHZ

通道15频率: 467.125 MHZ

通道16频率: 467.625 MHZ

通道17频率: 468.125 MHZ

通道18频率: 469.125 MHZ

通道19频率: 468.625 MHZ

通道20频率: 469.625 MHZ

确定

取消

恢复默认值

> 电台频率

通道号: 21~40

通道21频率: 450.125 MHZ

通道22频率: 451.125 MHZ

通道23频率: 452.125 MHZ

通道24频率: 453.125 MHZ

通道25频率: 454.125 MHZ

通道26频率: 455.125 MHZ

通道27频率: 456.125 MHZ

通道28频率: 457.125 MHZ

通道29频率: 458.125 MHZ

通道30频率: 459.125 MHZ

通道31频率: 450.625 MHZ

通道32频率: 451.625 MHZ

通道33频率: 452.625 MHZ

通道34频率: 453.625 MHZ

通道35频率: 454.625 MHZ

通道36频率: 455.625 MHZ

通道37频率: 456.625 MHZ

通道38频率: 457.625 MHZ

通道39频率: 458.625 MHZ

通道40频率: 459.625 MHZ

确定

取消

恢复默认值

> 电台频率

通道号: 41~60

通道41频率: 440.125 MHZ

通道42频率: 441.125 MHZ

通道43频率: 442.125 MHZ

通道44频率: 443.125 MHZ

通道45频率: 444.125 MHZ

通道46频率: 445.125 MHZ

通道47频率: 446.125 MHZ

通道48频率: 447.125 MHZ

通道49频率: 448.125 MHZ

通道50频率: 449.125 MHZ

通道51频率: 440.625 MHZ

通道52频率: 441.625 MHZ

通道53频率: 442.625 MHZ

通道54频率: 443.625 MHZ

通道55频率: 444.625 MHZ

通道56频率: 445.625 MHZ

通道57频率: 446.625 MHZ

通道58频率: 447.625 MHZ

通道59频率: 448.625 MHZ

通道60频率: 449.625 MHZ

确定

取消

恢复默认值

> 电台频率

通道号: 61~80

通道61频率: 430.125 MHZ

通道62频率: 431.125 MHZ

通道63频率: 432.125 MHZ

通道64频率: 433.125 MHZ

通道65频率: 434.125 MHZ

通道66频率: 435.125 MHZ

通道67频率: 436.125 MHZ

通道68频率: 437.125 MHZ

通道69频率: 438.125 MHZ

通道70频率: 439.125 MHZ

通道71频率: 430.625 MHZ

通道72频率: 431.625 MHZ

通道73频率: 432.625 MHZ

通道74频率: 433.625 MHZ

通道75频率: 434.625 MHZ

通道76频率: 435.625 MHZ

通道77频率: 436.625 MHZ

通道78频率: 437.625 MHZ

通道79频率: 438.625 MHZ

通道80频率: 439.625 MHZ

确定

取消

恢复默认值

> 电台频率

通道号: 81~100

通道81频率: 420.125 MHZ

通道82频率: 421.125 MHZ

通道83频率: 422.125 MHZ

通道84频率: 423.125 MHZ

通道85频率: 424.125 MHZ

通道86频率: 425.125 MHZ

通道87频率: 426.125 MHZ

通道88频率: 427.125 MHZ

通道89频率: 428.125 MHZ

通道90频率: 429.125 MHZ

通道91频率: 420.625 MHZ

通道92频率: 421.625 MHZ

通道93频率: 422.625 MHZ

通道94频率: 423.625 MHZ

通道95频率: 424.625 MHZ

通道96频率: 425.625 MHZ

通道97频率: 426.625 MHZ

通道98频率: 427.625 MHZ

通道99频率: 428.625 MHZ

通道100频率: 429.625 MHZ

确定

取消

恢复默认值

> 电台频率

通道号: 101~120

通道101频率: 410.125 MHZ

通道102频率: 411.125 MHZ

通道103频率: 412.125 MHZ

通道104频率: 413.125 MHZ

通道105频率: 414.125 MHZ

通道106频率: 415.125 MHZ

通道107频率: 416.125 MHZ

通道108频率: 417.125 MHZ

通道109频率: 418.125 MHZ

通道110频率: 419.125 MHZ

通道111频率: 410.625 MHZ

通道112频率: 411.625 MHZ

通道113频率: 412.625 MHZ

通道114频率: 413.625 MHZ

通道115频率: 414.625 MHZ

通道116频率: 415.625 MHZ

通道117频率: 416.625 MHZ

通道118频率: 417.625 MHZ

通道119频率: 418.625 MHZ

通道120频率: 419.625 MHZ

确定

取消

恢复默认值

2.6 Firmware upgrade = firmware upgrade + upgrade module (settable function) as shown below

> 升级固件

版本信息:

固件版本:

1.08.190429.RD31GL

核心引擎版本:

Sirius.1.08

固件发行日期:

20190429

固件保修日期:

20150101

固件校验和:

0

在线升级:

最新固件版本:

未识别

升级状态:

未启动

下载进度:

0%

上次升级时间:

0

在线升级:

在线升级

操作提示:

启动在线升级功能前,请确保网络工作正常!

本地升级:

路径:

浏览...

安装新固件

状态:

> 升级模块

电台升级:

路径:

浏览...

安装新固件

升级状态:

无动作

电台型号:

BER704

固件版本:

BER704.1.0.190418

2.7 User Management = User Management (Settable Functions) as shown below

2. Wireless control of S6 radio:

2.1 Connect the S6 radio wifi with mobile phones, handbooks and other Internet-connected electronic products (make sure the radio wifi hotspot is turned on before connecting)

2.2 Enter the dedicated web page 10.1.1.1 (account admin. password admin), select the radio settings to wirelessly control the S6 radio.

Chapter5. The radio parameters of S6

Radio characteristics	Support agreement	SOUTH 9600/SOUTH 19200/SOUTH+ SOUTHx/TrimTalk 450S/TrimMark II TrimMark III/HUACE Hi-Target/Satel 3AS
	Power	RF output power: 10W, 20W, 30W
	Frequency Range	410MHz - 470MHz
	Bandwidth	25KHz
	baud rate	9600/19200
	Number of channels	120
Use interaction	Boot mode	Button boot
	Operation method	Button / Bluetooth software / WIFI webpage
	Display	VFD vacuum LCD screen
	Button	6 buttons, up and down keys switch, left and right button selection, power button confirmation / switch button, C button return
	Indicator light	4 indicators, BT Bluetooth light / DATA data light AUX power lamp / PWR power lamp
Internal communication	WIFI	802.11b/g/n, Support AP hotspots
	Bluetooth	Bluetooth 3.0
Interface information	Dataline interface	Standard RS232 serial port, LEMO 5 core
	Antenna interface	Standard TNC mouthpiece
	Power interface	Power supply four core LEMO
Physical characteristics	Operating temperature	-20℃-55℃
	storage temperature	-40℃-85℃
	Dustproof and waterproof	IP67
	Drop	withstands 1.2m free drop onto hard surface
	Size	144mm*174mm*65.6mm
	Weight	1.5 KG

System characteristics	Wireless connection of base station	support
	Antenna status monitoring	support
	Real-time temperature monitoring	support
	Power dynamic adjustment	support
Electrical characteristics	power input	DC 9-16V
	Reverse polarity	support
	ESD protection	support

FCC Warning

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The PMR antenna(s) used for this transmitter must be installed and operated operating to provide a separation distance of at least 5m from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

Installer must ensure that 100cm separation distance will be maintained between the device (excluding its handset) and users.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.