

GOLDEN SPRING
GS-7700USB VHF/UHF Dual Band
Amateur Radio
User Manual

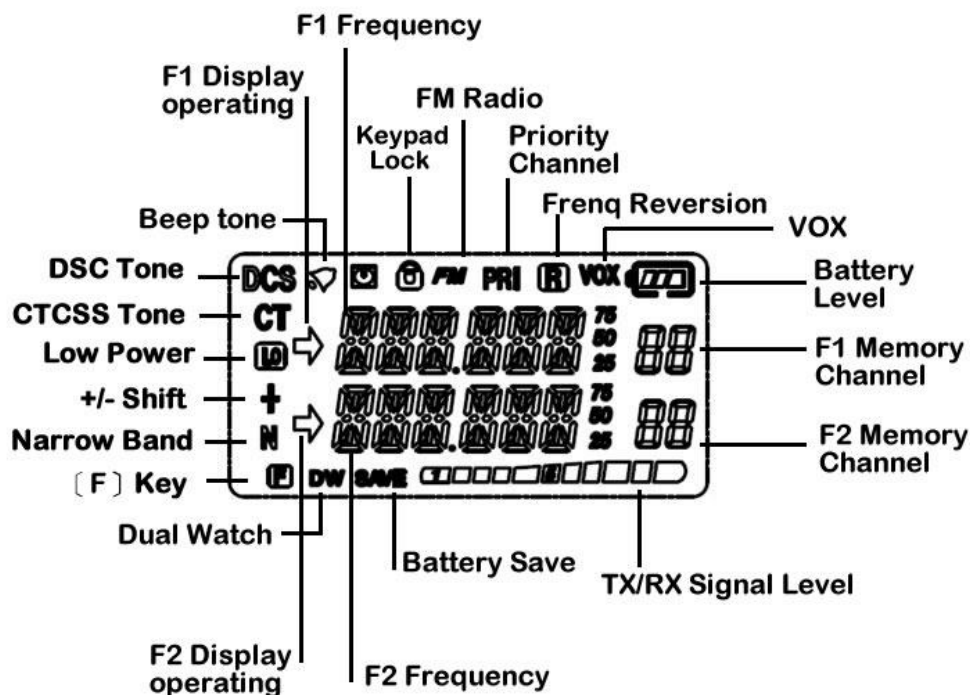
A) INTRODUCTION :

1. Operating Frequency
 - ◆ FM Radio 65 – 108 MHZ
 - ◆ VHF 136 – 174 MHZ
 - ◆ UHF 400 – 500 MHZ
2. Operating Mode : Frequency & Channel Mode
3. FM Radio broadcast
4. Dual Band Standby
5. High / Low Tx power level
6. CTCSS & DCS Encode / Decode
7. 1750Hz Burst Tone Calling
8. TX Time Out Timer
9. Channel Step In 5K、6.25K、10K、12.5K、20K、25K
10. Battery Save
11. VOX Voice activated PTT
12. RX Busy Lock Out
13. Low Battery Alert
14. Back Light Auto
15. 3 Selection of LCD Display (Frequency, Channel & Name)

16. 3 Selection Scan Method (Time、 Carry、 Searching)
17. PTT-ID (Encode When Press PTT、 Encode Release PTT、
Encode, both In Press PTT Or Release PTT)
18. Frequency Shift Direction Selection
19. Offset Selection 0 – 37.000 MHZ
20. Short Cut Menu In Keypad
21. Memory Of Channel Storage
22. 99 Memory Channel
23. Frequency reversion in TX / RX
24. PC Programming

B) Keypad and LCD Description :

UP [▲]/[▼]		
DOWN [▲]/[▼]		
1 / SQL	2 / PWR	3 / SCAN
4 / Step	5 / TOT	6 / RCODE
7 / TCODE	8 / FM	9 / SET
V / M	0 / TDR	F/ [F-O]



C) ALL Buttons Operating Features :

- 1.1. Press [**F-O**]key, “ **F** ” Icon will flash, then press [**9SEL**] key to enter into menu list.
- 1.2. Select [**▲**]/[**▼**] key to enter your desire menu mode.
- 1.3. Press [**V/M**] key to enter into menu setting, press [**▲**]/[**▼**] to elect different setting, then press [**F-O**] key to storage the new setting and return to menu mode.
- 1.4. Press [**F-O**] key to exit menu list and return to frequency mode.
- 2.1 Continue press [**F-O**] key over 2 seconds to activate keypad lock

and repeat same key operation to exit keypad lock.

[UP/DOWN] []/[] Key :

In Frequency Mode : to adjust frequency up or down.

In Channel Mode : to adjust channel memory up or down.

In Menu Mode : to adjust menu mode or setting selection.

Continue press up/down key over 2 seconds will activate fast running in selection.

In Scan Mode : to activate scan direction.

[VM] Key :

Press over 2 seconds to activate the change of Frequency mode or Channel mode.

[0 – 9] Key :

For Entry Frequency, Channel, Menu List, Menu Setting. and Name List Setting.

[SIDE] Key Top (Orange color PTT key) :

Press PTT key to activate transmit.

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[SIDE] Key Middle (Orange color Monitor key) :

Press Monitor key to activate monitor signal。

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[SIDE] Key Bottom (Orange color A/B VFO key) :

Press A/B VFO key to activate the change of F1 and F2

VFO operation。

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D) Combination Key Feature :

1、Burst Tone Calling :

Press PTT Key then press Monitor Key will activate 1750Hz burst tone calling when you release monitor key, 1750KHz burst will be off.

2、Factory Default Setting

Press [] key continue to turn on, LCD will display [RESET→VFO→ALL], then press [F] Key to confirm setting.

E) MENU LIST

Menu	Feature	Setting
1	CHANNEL STEP	5,6.25,10,12.5,20,25
2	SQUELCH	0---9
3	BATTERY SAVE	OFF/ON
4	TX POWER	HIGH/LOW
5	ROGE CALLING	OFF/ON
6	TOT	OFF/1M-7M
7	VOX	OFF/1-9
8	BEEP KEY TONE	ON/OFF
9	TDR DUAL WATCH	ON/OFF
10	RX CODE CTCSS/DCS	OFF/67~254.1/023~754
11	TX CODE CTCSS/DCS	OFF/67~254.1/023~754
12	BACK LIGHT	ON/OFF
13	PTT ID	ON/OFF
14	ANI	0~9,A~F
15	PTI DM	OFF/BOT/EOT/BOTH
16	DT ST	ON/OFF
17	MDF 1	FREQ/CHAN/NAME
18	MDF 2	FREQ/CHAN/NAME

19	BUSY LOCK OUT	ON/OFF
20	SHIFT DIR	0 / - / +
21	OFFSET	0~69.995M
22	SCAN MODE	TO/CO/SE
23	TX A/B	F1/F2/OFF
24	REVERSION	ON/OFF
25	STE	ON/OFF
26	NAME DISPLAY	0-9,A~Z
27	BAND WIDTH	WIDE/NARROW
28	BACK LIGHT	BLUE/BLUE+RED

MENU OPERATION AND DATA SETTING ;

1.1. Press [**F-O**]key, “ **F** ” Icon will flash, then press [**9SEL**] key to enter into menu list。

1.2. Select [**▲**]/[**▼**] key to enter your desire menu mode。

1.3. Press [**V/M**] key to enter into menu setting, press [**▲**]/[**▼**] to select different setting, then press [**F-O**] key to storage the new setting and return to menu mode。

1.4. Press [**F-O**] key to exit menu list and return to frequency mode。

GS-7700USB	
Frequency Range	: 136-174MHz and 400-500MHz
Power Output	: 5 Watts (VHF), 5 Watts (UHF)
Talk Range	: 5-8km
Volume	: 58 x 110 x 35 mm
Features	99 Memory Channel
	1750KHz Burst Tone
	FM Radio (65MHz-108MHz)
	CTCSS/DCS with Separate Setting in TX/RX
	Low Battery Alert
	VOX Voice Activate Transmit
	Dual Watch Receiver with Dual Display
	Channel Step 5 / 6.25 / 10 / 12.5 / 25 kHz
	Frequency Shift with Offset from 0.10 to 37.000MHz
	Tx Time Out Timer
	PC programming
Specification	
GENERAL	
Channel Capacity	: 128
Channel Spacing	: 5 / 6.25 / 10 / 12.5 / 25KHz
Operated Voltage	: 7.4V
Frequency Stability	: 2.5ppm(-20 ° C ~+60 ° C)
Operated Temperature	: -30 ° C ~+60 ° C
Antenna Impedance	: 50 Ω
TRANSMITTER	
Modulation	: F3E
Spurious Emission	: <-60dB
FM Noise(N/W)	: ≥-45dB≥-40dB
Audio distortion	: Less than10.%
Adjacent Channel Power	: ≤-65dB≤-60dB
Max Frequency Deviation	: 5KHz (N)/ 2.5KHz (W)
Frequency Error	: 500Hz
Modulation Distortion	: 0.1KHz (300-3000KHz)
Transmitting Current	: About1.4A

RECEIVER	
Sensitivity (12dB SINAD)	: -122dBm
Spurious Response Rejection	: 65dB
FM Ham & Noise	: 40dB(N)/45dB(W)
Audio Power Output @ 8Ω	: 1W
Audio Distortion	: ≤10%
Receiver Current	: ≤380mA

Made in China

