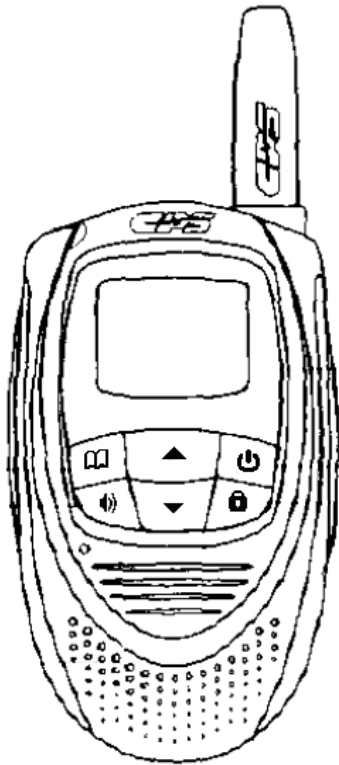


# CP101

## 手持对讲机 使用手册



## 1. 概述

### 1.1 概述

CP101系列民用手持对讲机，设计优良，线条美观时尚，性能良好，简单易用。

### 1.2 功能

- 重量：53克
- 无须申请执照 / 牌照
- 无须交纳通话或频率占用费
- 通信可达三公里 (视乎具体通信环境)
- 响亮清晰的音频输出
- 含20个通信频道, 53组亚音频频率和104个DCS代码
- 内置声控发射功能 (VOX)
- 频道扫描功能
- 提供二种接收模式
- 一般接收模式
- 双守候接收模式
- 夜光照明的大显示屏
- 监听功能
- 省电功能
- 剩余电量显示
- 低电量警告
- 键盘锁
- 繁忙频道锁定
- 可外接耳机/麦克风
- 配有可拆卸的皮带夹

### 1.3 另购配件

- EM20耳机



## 4. 功能菜单选项

### 4.1 信道 CH

使用▼键或▲键，选择所需的信道。

### 4.2 亚音频选择 CTCSS/DCS

使用▼键或▲键，选择所需的亚音频。亚音频设定后，对讲机需工作在相同的亚音频，才能互相通话，设置亚音频可减少同频通信干扰。

### 4.3 静噪等级 SL

使用▼键或▲键，选择1-9级静噪等级。

### 4.4 声控发射 VOX

使用▼键或▲键，关闭声控，或开启并选择声控灵敏度（OFF---09）。此功能启动后，无需按下PTT键，以讲话声音来控制对讲机发射。

### 4.5 双守候功能 DW

使用▼键或▲键，选择双守候信道以及关闭双守候。

### 4.6 按键提示音

使用▼键或▲键，选择开启（ON）或关闭（OFF）按键提示音功能。

### 4.7 繁忙信道锁定BC

使用▼键或▲键，选择开启（ON）或关闭（OFF）。此功能开启后，当接收到同一频率信号时，禁止发射，防止打断或干扰其它人的正常通话。

### 4.8 发射背光灯控制 ( ( ) + LED

使用▼键或▲键，选择开启（ON）或关闭（OFF）发射背光LED提示。开启该功能后，当对讲机发射时，显示屏背光LED将亮起。

### 4.9 发射功率调整 ( ( )

使用▼键或▲键，选择Lo或Hi，切换大小功率。

或在待机模式下

同时按下PTT及▼键，切换至小功率；

同时按下PTT及▲键，切换至大功率。



Website: [www.cps-telecom.com](http://www.cps-telecom.com)

## 1. GENERAL INFORMATION

### 1.1 Introduction

The CP101 Recreational Radio combines quality and versatility into a compact, light and portable two-way radio with state-of-the-art design and easy-to-use features.

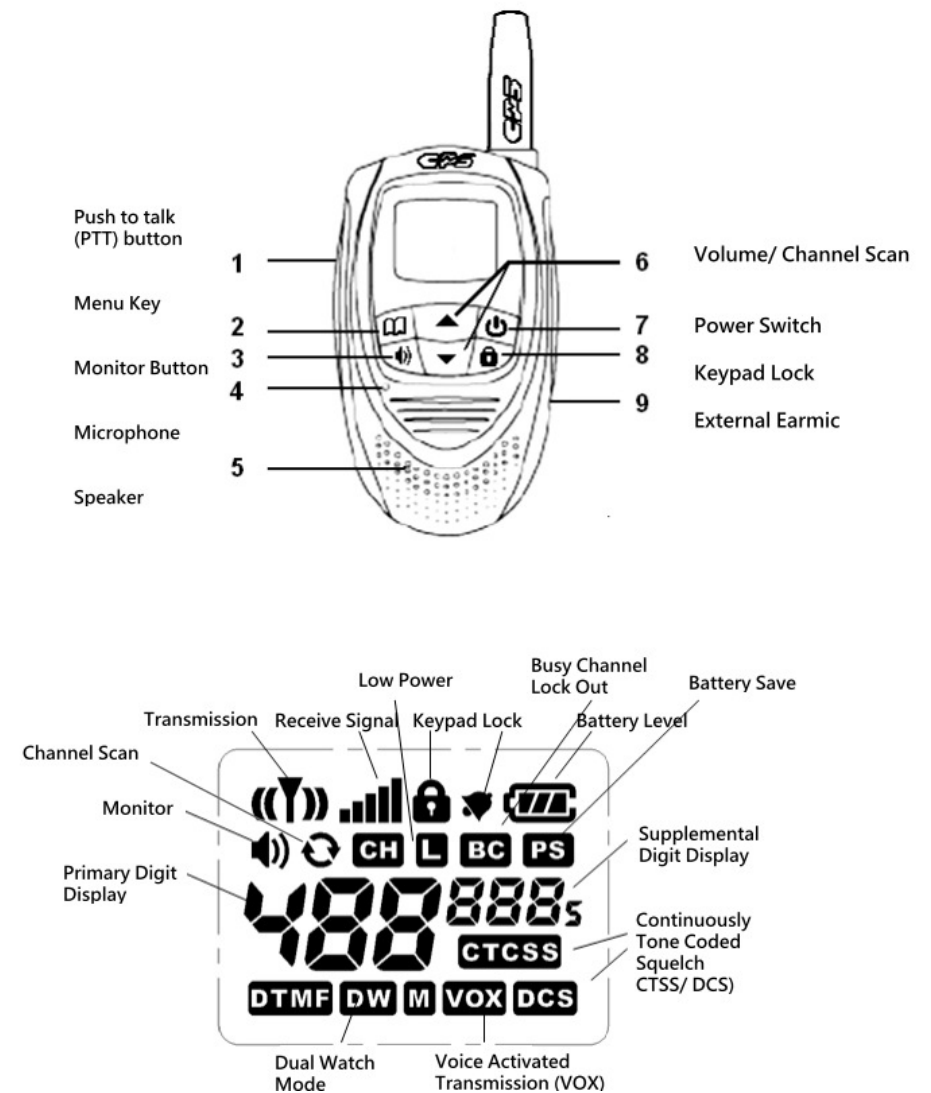
### 1.2 Key Features

- weight : 53g
- license free
- talk for free!
- 3km/2mi range (open terrain)
- clear, high power audio output
- 20 channels, 53 CTCSS tone code, 104 DCS code
- voice activated transmission (VOX)
- channel scan
- 2 receiving modes
- General receiving mode
- Dual watch mode
- large LCD display with illumination
- monitor mode
- battery save
- battery level indicator
- low battery warning
- keypad lock
- busy channel lockout
- external PTT / microphone and speaker jack
- detachable belt clip

### 1.3 Optional Accessories

- EM20 External PTT/ microphone

## 2. CONTROLS AND INDICATORS



## 3. OPERATION

### 3.1 Power On / Off

Press and hold the power on Key to switch on or off.

### 3.2 Adjusting the Radio Volume/ Channel Scan


Adjust the volume level by using ▲ / ▼ key (1-15 steps)

Press and hold ▲ / ▼ key for 2 seconds. Press any key to stop.



### 3.3 Transmission /Receiving

Press and hold the "PTT" button while speaking at about 5cm from the microphone for transmission. Release the "PTT" button to return to standby mode.


### 3.4 Channel Selection

Press and hold the , use ▼ or ▲ to select the channel, press PTT key to confirm and back to receiving mode interface.



### 3.5 Keypad Lock

Press  for 3 seconds to activate and deactivate the keypad lock.  cannot be function.

### 3.6 Monitor

Press  key to open the speaker squelch for receiving the weak radio signal and monitoring channel with unknown CTCSS frequency.

## 4. MENU SETTING

Press  key for 2 seconds to enter the Menu Selection Mode. Press  key to select one of the following features:  
Channel select >CTCSS/ DCS>Squelch Level >VOX >Dual Watch Mode >Key Beep Tone >Busy Channel Lock Out > Transmit LED indicator >Battery Save >Transmitter Power Select

Press PTT to confirm setting and return to standby mode, the current setting will be confirmed and quit to standby mode if no action to the selected feature for more than fifteen seconds.

## 4. MENU SETTING

### 4.1 Channel

Press ▼/▲ to select the channel.

### 4.2 CTCSS/DCS

Press ▼/▲ to select desired CTCSS or DCS coding.

### 4.3 Squelch Level

Press ▼/▲ to select squelch level ( 1 -9 steps).

### 4.4 VOX

Press ▼/▲ to select OFF & ON and select the VOX level ( OFF – 09 ). Without pressing the PTT button, the voice signal can be transmitted through the microphone.

### 4.5 DUAL WATCH

Press ▼/▲ to select OFF & On Dual Watch Channels.

### 4.6 KEY BEEP TONE

Press ▼/▲ to select On & OFF this feature.

### 4.7 BUSY CHANNEL LOCK OUT (BCLO)

Press ▼/▲ to select and disable this feature. If this feature is turned on, transmission function will be temporary disabled when signal is being received.

### 4.8 BACK LIGHTING( ) + LED

Press ▼/▲ to select disable this feature. Back Lighting will be ON when you press PTT to indicate transmitter is function.

### 4.9 TRANSMISSION POWER ADJUST ( )

Press ▼/▲ to select Low or High Power. When the radio is on standby mode, Press PTT and ▼ to select Lo Power, Press PTT & ▲ to select Hi power.

## CTCSS / DCS TABLE

CTCSS 表

NO.	Frequency (Hz.)	NO.	Frequency (Hz.)	NO.	Frequency (Hz.)	NO.	Frequency (Hz.)
1	67	15	110.9	29	179.9	43	196.6
2	71.9	16	114.8	30	186.2	44	199.5
3	74.4	17	118.8	31	192.8	45	206.5
4	77	18	123	32	203.5	46	229.1
5	79.7	19	127.3	33	210.7	47	254.1
6	82.5	20	131.8	34	218.1	48	165.5
7	85.4	21	136.5	35	225.7	49	171.3
8	88.5	22	141.3	36	233.6	50	177.3
9	91.5	23	146.2	37	241.8	51	60.7
10	94.8	24	151.4	38	250.3	52	62.5
11	97.4	25	156.7	39	69.3	53	64.7
12	100	26	162.2	40	159.8		
13	103.5	27	167.9	41	183.5		
14	107.2	28	173.8	42	189.9		

DCS 表

NO	Dcs code	NO	Dcs code	NO	Dcs code	NO	Dcs code
1	023	27	165	53	413	79	731
2	025	28	172	54	423	80	732
3	026	29	174	55	431	81	734
4	031	30	205	56	432	82	743
5	032	31	223	57	445	83	754
6	043	32	226	58	464	84	053
7	047	33	243	59	465	85	122
8	051	34	244	60	466	86	036
9	054	35	245	61	503	87	145
10	065	36	251	62	506	88	212
11	071	37	261	63	516	89	225
12	072	38	263	64	532	90	246
13	073	39	265	65	546	91	252
14	074	40	271	66	565	92	255
15	114	41	306	67	606	93	266
16	115	42	311	68	612	94	274
17	116	43	315	69	624	95	325
18	125	44	331	70	627	96	332
19	131	45	343	71	631	97	356
20	132	46	346	72	632	98	446
21	134	47	351	73	654	99	452
22	143	48	364	74	662	100	454
23	152	49	365	75	664	101	455
24	155	50	371	76	703	102	462
25	156	51	411	77	712	103	523
26	162	52	412	78	723	104	526

## TECHNICAL SPECIFICATIONS 技术参数

### General 一般

Channels 频道数	20CHs
Frequency range 频率范围	409.750MHz ~ 409.9875MHz
Modulation 调制型式	FM
Temp. range 工作温度	-20°C ~ +55°C
Power supply 电源	AAA battery x 3
Operating Voltage 工作电压	3.8V ( 3.3V ~ 4.5V )
Size(W x H x D)尺寸(宽、高、厚)	47 x 111 x 34 mm
Weight w/o battery 重量(不含电池)	53g

### Receiver 接收

Sensitivity 接收灵敏度	-120dBm
Audio Output Power 音频输出	0.5W / 8Ω 阻抗
Audio Distortion 音频失真	< 5%

### Transmitter 发射

Output Power 射频功率	0.5W
Modulation Distortion 调制失真	< 5%
Frequency Stability 频率稳定度	±2.5ppm

## CHANNEL FREQUENCY CHART 信道频率

Channel No.	Frequency ( MHz )	Channel No.	Frequency ( MHz )
1	409.7500	11	409.8750
2	409.7625	12	409.8875
3	409.7750	13	409.9000
4	409.7875	14	409.9125
5	409.8000	15	409.9250
6	409.8125	16	409.9375
7	409.8250	17	409.9500
8	409.8375	18	409.9625
9	409.8500	19	409.9750
10	409.8625	20	409.9875