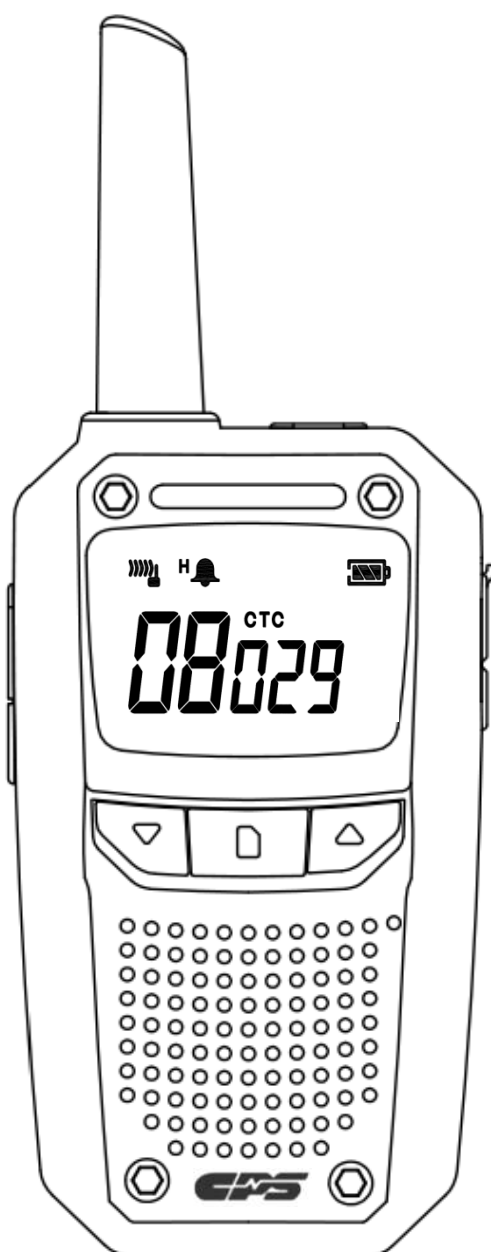


CP229

SMARTBUSINESS WALKIE TALKIE

USER MANUAL



1. GENERAL INFORMATION

1.1 【Introduction】

The CP229 ARC PRO Business Walkie Talkie combines quality and versatility with a robust design that ensures effective communications even in the harshest environments.

1.2 【Key Features】

- ✧ 53CTCSS and 104 DCS
- ✧ Volume setting (1–16)
- ✧ S.Q. Level control with 5 steps
- ✧ Voice Operated Transmission (VOX)
- ✧ Dual Watch (DW)
- ✧ Key Lock
- ✧ Battery Saving
- ✧ 0.5Watt High Power Speaker Output
- ✧ 3.7V 1100mAh Li-Polymer Battery pack
- ✧ Channel Scan—Scans for activity across different communications channels
- ✧ Monitor function—Enables monitoring for weak radio signals
- ✧ Busy Channel Lockout—Prevents the radio from listening to or transmitting over its channels
- ✧ RSSI—Receiving signal strength indication
- ✧ Battery Level Indicator
- ✧ Beep sound Setting for using key Tones.
- ✧ Power Output setting H:L
- ✧ Roger Tone Setting, for transmitting end Tones.
- ✧ Standby indicator setting
- ✧ Intelligent ear-microphone adjustment
- ✧ Reset setting
- ✧ IP67 certified * – protected from dust and waterproof
(protected from immersion in water with a depth of 1 meter for up to 30 minutes)

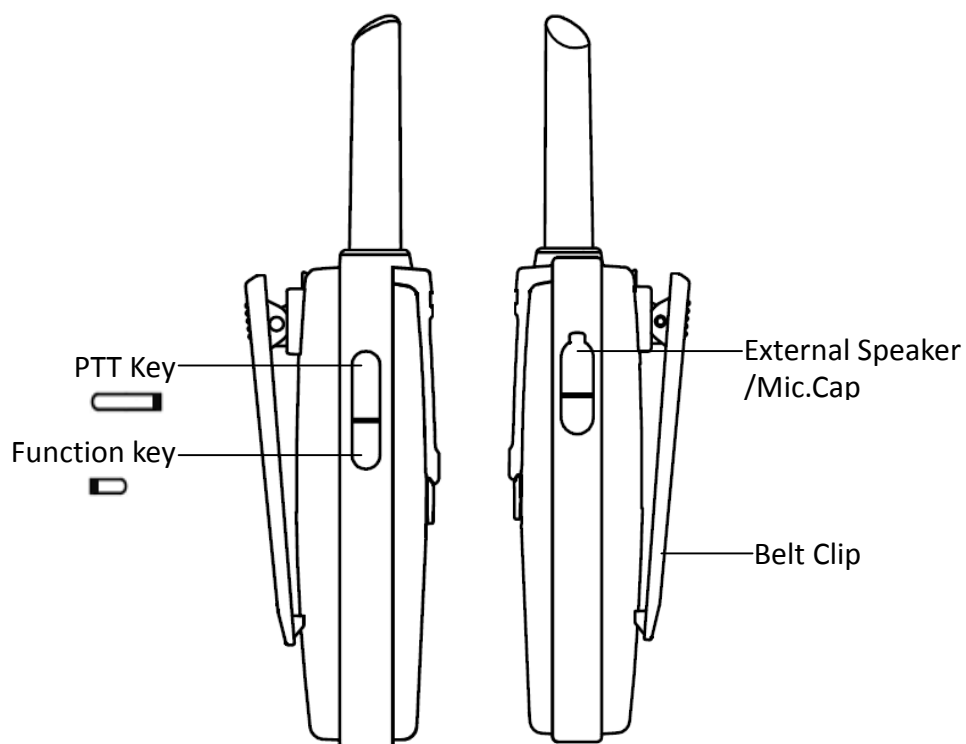
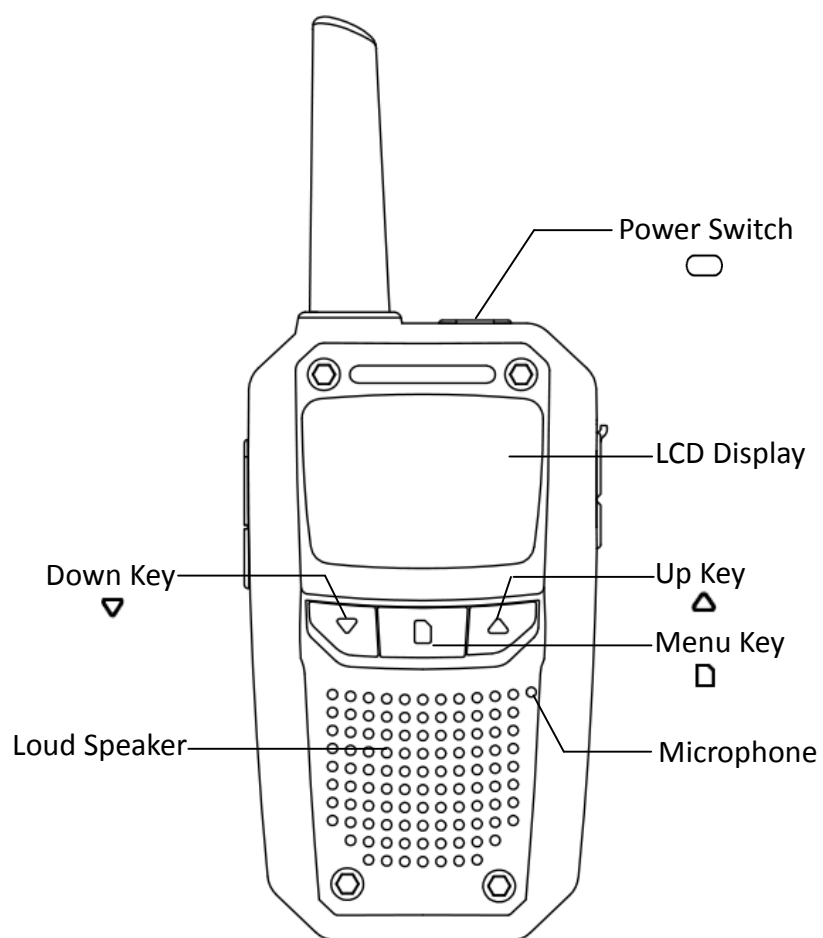
1.3 【Accessories】

- ✧ CB28 Li-Polymer Battery pack
- ✧ Owner's manual

1.4 【Optional Accessories】

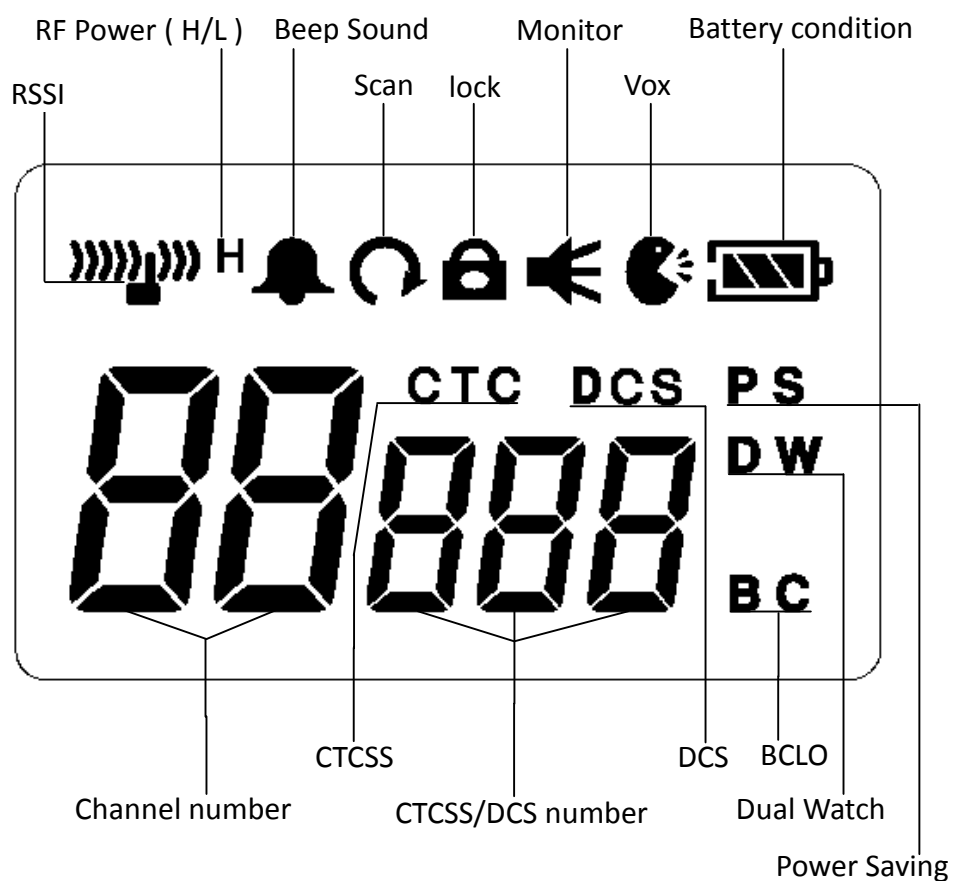
- ◆ External speaker / microphone
- ◆ CS20 Rapid Charger
- ◆ CS28 Rapid Charger (4 Slots)
- ◆ MC18 USB cable
- ◆ CWC18 (S) Charging adapter

2. CONTROLS AND INDICATORS



2. CONTROLS AND INDICATORS

ENGLISH



3. CHARGING THE BATTERY






3.1 【Charging】

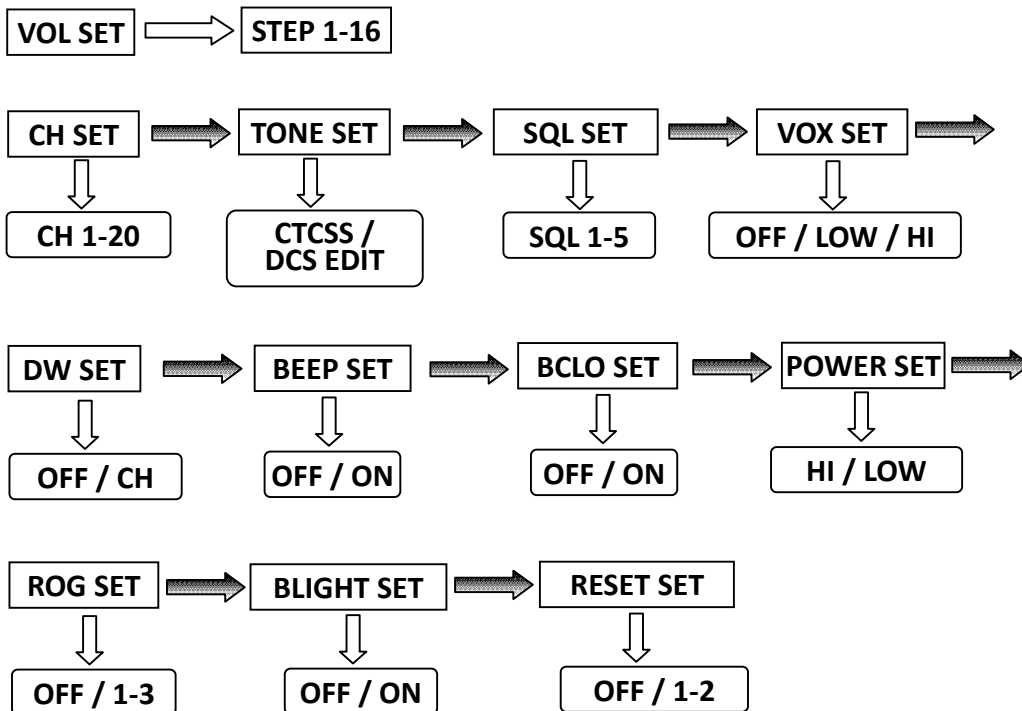
- 1) Plug the AC adaptor into a standard electrical outlet Insert the Walkie Talkie into the charging tray for charging.
- 2) It will take 3– 4 hours for full charging














4. MENU SETTING

4.1 【Menu Setting】

Press and hold the [] key longer than 2 sec. to enter Menu mode, press [] key to choose desired menu and press [ | ] key to select the function then press [] key to save it. If no operation, 10 seconds will automatically exit the menu setting.




5. CHANNEL SETTING BRIEF NOTE


- Press and hold the () key on the top of the unit.
- Press and hold the () key until the letter CH is blinking, press () key to select the number of Channel.
- Press () key and the screen will display CTC off , press () key to select your desired CTCSS/DCS (CTCSS 1 – 53, DCS 1 – 104)
- Press () key to complete this setting or to press () key again to have the other functions , press () key to select Yes or No of the functions, you may press () key at any time to complete this setting.
 SL001Squelch Level
 Uo offVOX Voice Activated Transmission
 dc offDual Watch
 bP on Roger Beep Tone
 bc onBusy Channel Lock Out
 Po HiPower out
 RgoffBeep Sound
 bL onBack light blinking
 rS offReset
- Press () key at the side and () key at the same time to LOCK /UNLOCK the unit, after Lock, the unit can only be allowed to adjust volume or transmit and receive.

6. OPERATION



6.1 【Power On / Off】

To turn the radio on or off, press and hold the power on () key .

6.2 【Volume】

Adjust the volume level by using () key (16 steps, default 8)

6.3 【Transmission】

Press and hold the () key while speaking at about 5cm from the microphone for transmission. Release the () key to return to standby mode.



6.4 【Reception】

Listen for activity on the selected channel.

6.5 【Monitor】

Press () key and () key simultaneously to select MONITOR ON / OFF.





6.6 【Scan】

Press () key and () key simultaneously to select SCAN ON / OFF




6.7 【Key Lock】

Press () key and () key simultaneously to select Key Lock ON / OFF




6.8 【Channel Selection】

Press and hold the () key until “** CH” is blinking, to select the channel number by pressing () key and confirm it by pressing () key . To select channel quickly, press and hold the () key.




6.9 【CTCSS / DCS】

During setting, to press the () key until “CTCSS / DCS***” is blinking, to select the CTCSS /DCS number by pressing () key and confirm it by pressing () key.




6.10 【Squelch Level】

During setting, to press the () key until the “SL***” is blinking, to select the squelch level by pressing () key and confirm it by pressing () key. .




6.11 【VOX Voice Operated Transmission】

During setting, to press the () key until “Vo***” is blinking, to select VOX Hi/Low/OFF by () key and confirm it by pressing () key.




6.12 【DW Dual Watch】

During setting, to press and the () key until “dc***” is blinking, to select DW channel number by pressing () key and confirm it by pressing () key.




6.13 【Beep Sound】

During setting, to press the () key until “bP***” is blinking, to select on/off by pressing () key and confirm it by pressing () Key.




6.14 【BCLO】

During setting, to press the () key until “bc***” is blinking, to select on/off by pressing () key and confirm it by pressing () Key.




6.15 【Power Selection】

During setting, to press the () key until “Po***” is blinking, to select Power Hi/Low by pressing () key and confirm it by pressing () Key.




6.16 【Roger Tone】

During setting, to press the () key until “RG***” is blinking, to select Roger Tone off/1-3 by pressing () key and confirm it by pressing () key.

6.17 【Stand By Light】

During setting, to press the () key until “bL***” is blinking, to select Stand By Light on/off by Pressing () key and confirm it by pressing () key.

6.18 【RESET】

During setting, to press the () key until “rS***” is blinking, to select RESET off/1 - 2 by Pressing () key and confirm it by pressing () key. To select (1) for factory default, Select (2) for clearing all setting except the selected channel number and CTCSS/DCS. It is recommended not to use this function unless and until it is necessary to do so.

6.19 【Intelligent ear-mic adjustment】

When plug in ear microphone, the device will automatically reset the volume to comfort level (originally set by factory or by user whichever the lower)

1. 概述

1.1 【概述】

CP229 ARC PRO 商用對講機結合了高品質和多功能性以及堅固耐用的設計，即使在最惡劣的環境下也能確保有效的通信。

1.2 【功能描述】

- ✧ 內置 53 個單音 CTCSS 及 104 個 DCS 數字私線組合(CTCSS 及 DCS)
- ✧ 音量調較(16 級)
- ✧ 5 級選擇靜噪水平
- ✧ 聲控發射功能，可無需按動 PTT 而以講話聲音進行聲控發射(VOX)
- ✧ 雙頻守候功能(DW)
- ✧ 鍵盤鎖功能
- ✧ 省電功能
- ✧ 0.5W 音頻功率輸出
- ✧ 3.7V 1100mAh 鋰高分子電池
- ✧ 頻道掃描
- ✧ 監聽功能,能在微弱的接收訊號進行監聽功能
- ✧ 繁忙信道鎖定
- ✧ 接收訊號強弱顯示(RSSI)
- ✧ 電量狀態顯示
- ✧ 聲響選擇
- ✧ 兩檔發射功率可選,高/低
- ✧ 發射結束提示鈴音選擇，用於提示通話結束
- ✧ 待機提示選擇
- ✧ 智能耳機調較
- ✧ 出廠復位設置或復位最後一次有效接收狀態
(有效信道和亞音頻)，用於選單誤操作復位
- ✧ IP67 認證* -防塵和防水（浸入水中深度 1 米，長達 30 分鐘）

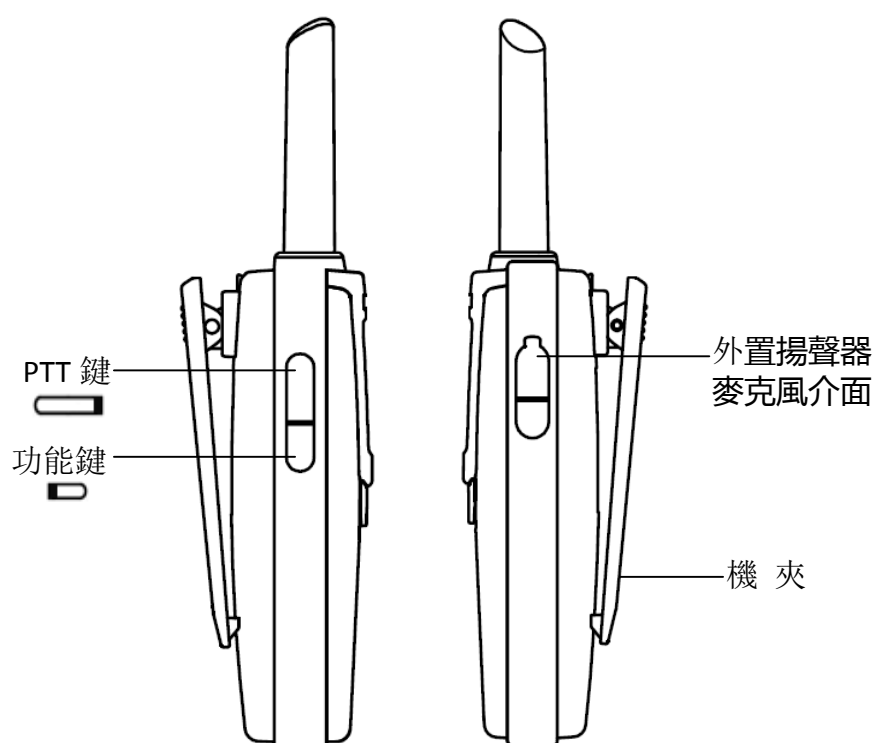
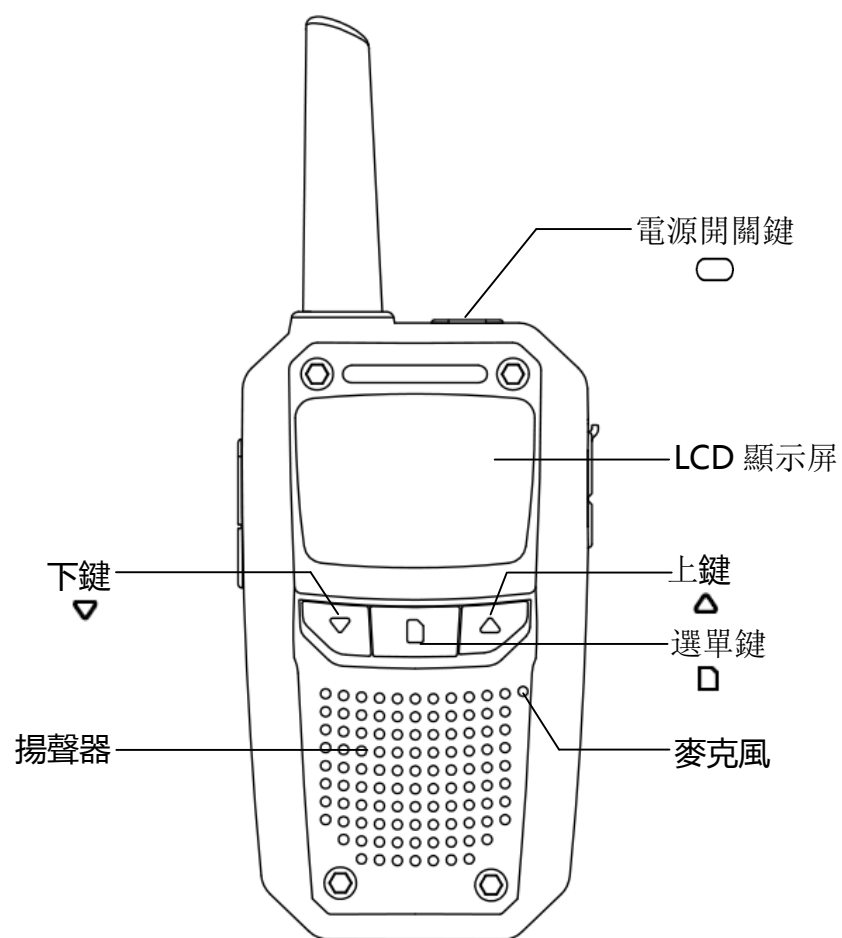
1.3 【配件】

- ✧ CB28 鋰高分子電池
- ✧ 說明書

1.4 【另購配件】

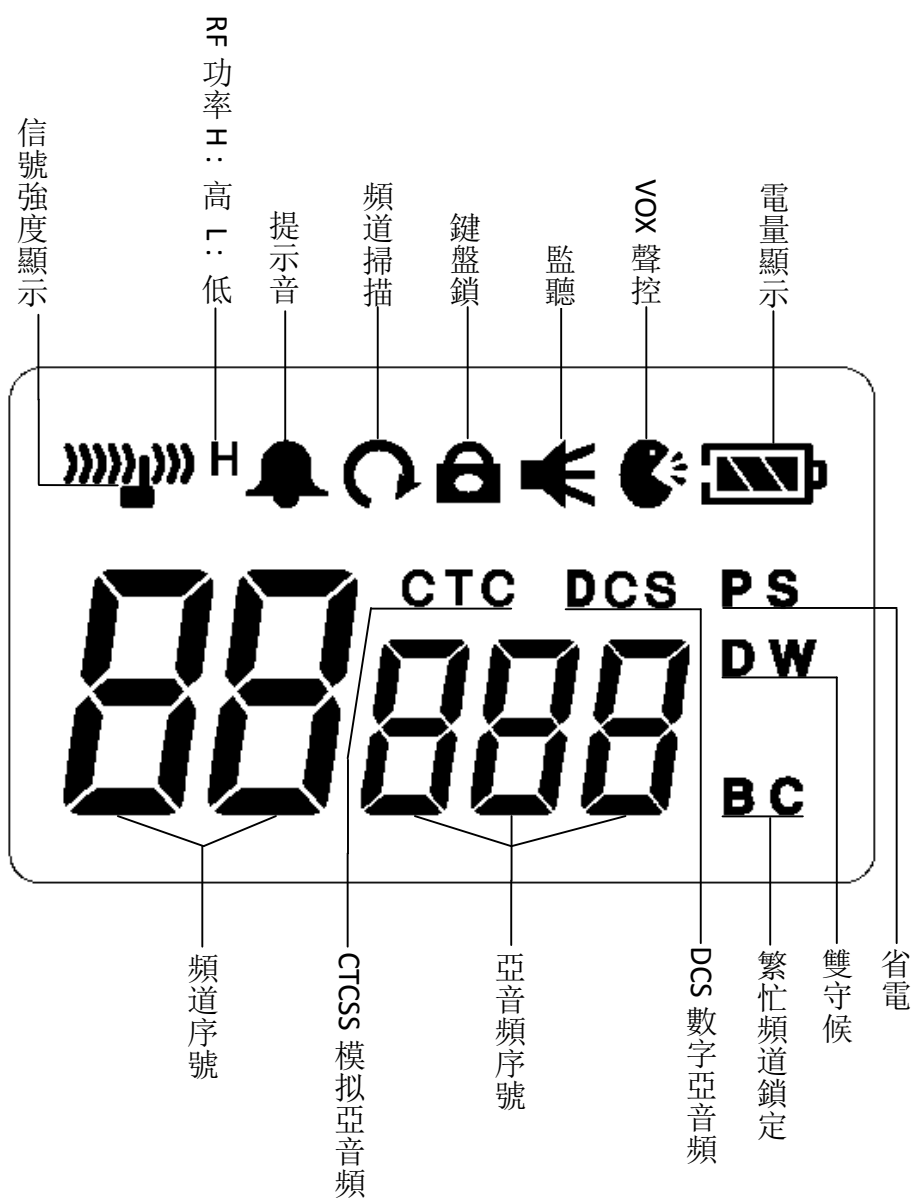
- ◆ 耳機麥克風
- ◆ CS20 快速充電座
- ◆ CS28 快速充電座（適用於四部對講機同時進行充電）
- ◆ MC18 USB 充電線
- ◆ CWC18 (S)電源適配器

2. 控制鍵及顯示說明



2. 控制鍵及顯示說明

CHINESE



3. 充電






3.1 【充電】

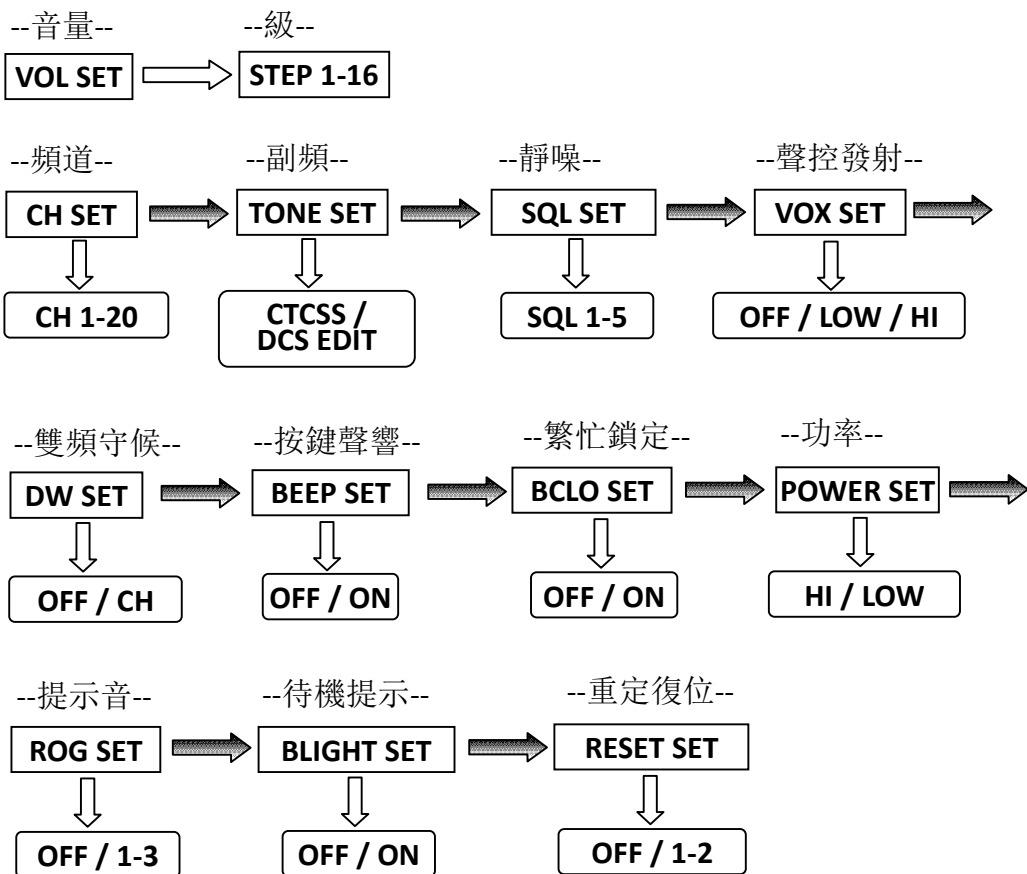
- 1) 將 DC 插頭插入充電座並將電源適配器接入 AC 電源
- 2) 對講機放入充電座進行充電，充電時間: 3-4 小時

















4. 功能選擇

4.1 【功能選擇】

持續按下〔〕鍵 2 秒可進入功能選擇，繼續按下〔〕鍵可進入所需功能選擇,然後按〔|〕鍵選擇所需功能，按下機側〔〕鍵確認。若無按鍵操作，10 秒後將自動退出選單畫面。



5. 簡易調頻方法



- 先在機頂長按（）鍵開機。
- 長按（）鍵,直至 LCD 屏幕數字閃動,再按（|）鍵揀選通話頻道。
- 再輕按（）鍵, LCD 屏幕會出現 CTC oFF, 再按（|）鍵揀選副頻道 (CTCSS 1-53,DCS 1-104) 。
- 此時可按下機側（）鍵完成調頻或可再按（）鍵跳至以下顯示並以（|）鍵揀選需要的設定,任何時候皆可按下機側（）鍵完成設定。
 SL001靜噪靈敏度
 Uo off聲控發射
 dc off雙守候掃描
 bP on提示音
 bc on繁忙頻道鎖
 Po Hi功率
 Rgoff提示鈴音
 bL on背光週期閃動
 rS off復位
- 將機側（）鍵與（）鍵同時按下,可以把該機上鎖或開鎖,當上鎖後,此機祇可以調較音量及對講。

6. 一般操作

6.1 【開機/關機】

持續按下電源（）鍵開機或關機。

6.2 【音量調較】

按（|）鍵調較音量(共有 16 級,出廠預設為 8 級)。



6.3 【發射】

持續按下機側（）鍵對距離麥克風 5cm 講話,鬆開機側（）鍵恢復接收狀態。


6.4 【接收】

對講機處於待機模式,以便接收訊號。

6.5 【監聽功能】

同時按下（）鍵及（）鍵可選擇開或關閉監聽功能。







6.6 【掃描】

同時按下（）鍵及（）鍵可選擇開或關掃描功能。





6.7 【鍵盤鎖】

同時按下（）鍵及（）鍵可選擇開或關鍵盤鎖。





6.8 【頻道選擇】

持續按下（）鍵進入“** CH”頻道選擇模式,頻道號碼將會閃動,按（|）鍵選擇所需頻道,再按（）鍵確認。當持續按（|）鍵時,頻道會不停地調上/調下。





6.9 【CTCSS / DCS 模擬亞音頻/數字亞音頻設置】

於調頻時，按下〔〕鍵進入“CTC/DCS***”模擬亞音頻/數字亞音頻設置模式，按〔|〕鍵選擇所需副頻，然後按下〔〕鍵確認 (如開啟此功能，收發雙方需選用相同的頻道、CTCSS / DCS 代碼才能互相通話)。





6.10 【靜噪水平】

於調頻時，按下〔〕鍵進入“SL***”靜噪水平模式，按〔|〕鍵選擇 1-5 級別靜噪功能，按下〔〕鍵確認(出廠預設為 1)。





6.11 【VOX 聲控發射】

於調頻時，按下〔〕鍵進入“Vo***”聲控發射模式，按〔|〕鍵選擇開/關聲控發射功能，然後按下〔〕鍵確認。





6.12 【DW 雙守候功能】

於調頻時，按下〔〕鍵進入“dc***”雙守候模式，“DW”將於 LCD 顯示閃動，按〔|〕鍵開/關雙守候功能，然後按下〔〕鍵確認。





6.13 【按鍵聲響】

於調頻時，按下〔〕鍵進入“bP***”聲響模式，按〔|〕鍵選擇開/關聲響功能，按下〔〕鍵確認，用於按鍵音設置(出廠預設為“開”)。





6.14 【BCLO 繁忙頻道鎖定】

於調頻時，按下〔〕鍵進入“bc***”繁忙頻道鎖定模式，按〔|〕鍵選擇開/關繁忙頻道鎖定功能，按〔〕鍵確認。





6.15 【高低功率選擇】

於調頻時，按下〔〕鍵進入“Po***”可選擇高低發射功率，按〔|〕鍵選擇高功率 H /低功率 L，按下〔〕鍵確認 (出廠預設為“低功率 L”)。





6.16 【發射結束提示音選擇】

於調頻時，按下〔〕鍵進入“RG***”可選擇發射結束時提示音，按〔|〕鍵選擇 1-3 提示音類別，按〔〕鍵確認。(出廠關閉發射提示音)。

6.17 【BLIGHT 待機閃燈提示選擇】

於調頻時，按下〔〕鍵進入“bL***”可選擇待機閃燈提示，按〔|〕鍵開/關待機閃燈提示功能，按下〔〕鍵確認。

6.18 【出廠復位與頻道&亞音頻復位功能】

於調頻時，按下〔〕鍵進入“rS***”可選擇系統復位方式，按〔|〕鍵選擇 1-2 復位類別，按下〔〕鍵確認。選擇 OFF 表示不做復位操作。

注： 1. 將恢復出廠設置

2. 將恢復最近一次有效接收的頻道和亞音頻設置值

復位操作是當用戶誤操作系統功能選單時，可進行

復位，非特殊情況不建議進行復位操作。

6.19 【智能耳機調較功能】

當插入耳機時，將自動調較之合適音量 (以出廠值或用戶自選之最低值為標準)

TECHNICAL SPECIFICATIONS

General			
Battery type			Li-Polymer
Battery capacity			1100mAh
Stand by time			15hours
Stand by time+back light			12hours
Temperature range			20°C-+55°C
Frequency stability			±2.5ppm
Size (HxWxD)			94x53x26mm
Weight Incl. battery			115g
Sub tones			CTCSS/DCS
CP229A	Ausralia	Frequency range	476.425 –477.4125 MHz
		Channels	80 CHs
CP229B	British Malaysia Singapore	Frequency range	446.00625– 446.09375MHz
		Channels	8 CHs
CP229C	China	Frequency range	409.7500 – 409.9875MHz
		Channels	20 CHs
CP229E	E U	Frequency range	446.00625–446.09375MHz 433.07500–434.77500MHz
		Channels	8 CHs
CP229H	Hong Kong, Macau	Frequency range	409.7500 – 409.9875MHz
		Channels	20 CHs
CP229J	Japan	Frequency range	422.05 – 422.30 MHz
		Channels	20 CHs
		Frequency range	Tx 440.025 – 440.3625 MHz Rx 421.575 – 421.9125 MHz
		Channels	27 CHs
CP229K	Korea	Frequency range	448.750 – 449.2625MHz
		Channels	25 CHs
CP229T	Taiwan	Frequency range	467.5125 – 467.6750MHz
		Channels	14 CHs
CP229R	Russia	Frequency range	433.07500–434.77500MHz
		Channels	69 CHs
		Frequency range	446.00625–446.09375MHz
		Channels	8 CHs
CP229U	USA	Frequency range	462.5500 – 467.7125MHz
		Channels	22 CHs

※※ Features & Specifications are subject to change without notice

CTCSS

CH	Frequency	CH	Frequency	CH	Frequency	CH	Frequency
1	67.0	14	107.2	27	167.9	40	159.8
2	71.9	15	110.9	28	173.8	41	183.5
3	74.4	16	114.8	29	179.9	42	189.9
4	77.0	17	118.8	30	186.2	43	196.6
5	79.7	18	123.0	31	192.8	44	199.5
6	82.5	19	127.3	32	203.5	45	206.5
7	85.4	20	131.8	33	210.7	46	229.1
8	88.5	21	136.5	34	218.1	47	254.1
9	91.5	22	141.3	35	225.7	48	165.5
10	94.8	23	146.2	36	233.6	49	171.3
11	97.4	24	151.4	37	241.8	50	177.3
12	100.0	25	156.7	38	250.3	51	60.7
13	103.5	26	162.2	39	69.3	52	62.5
						53	64.7

DCS

CH	DCS Code	CH	DCS Code	CH	DCS Code	CH	DCS Code
1	023	28	172	55	431	82	743
2	025	29	174	56	432	83	754
3	026	30	205	57	445	84	036
4	031	31	223	58	464	85	053
5	032	32	226	59	465	86	122
6	043	33	243	60	466	87	145
7	047	34	244	61	503	88	212
8	051	35	245	62	506	89	225
9	054	36	251	63	516	90	246
10	065	37	261	64	532	91	252
11	071	38	263	65	546	92	255
12	072	39	265	66	565	93	266
13	073	40	271	67	606	94	274
14	074	41	306	68	612	95	325
15	114	42	311	69	624	96	332
16	115	43	315	70	627	97	356
17	116	44	331	71	631	98	446
18	125	45	343	72	632	99	452
19	131	46	346	73	654	100	454
20	132	47	351	74	662	101	455
21	134	48	364	75	664	102	462
22	143	49	365	76	703	103	523
23	152	50	371	77	712	104	526
24	155	51	411	78	723		
25	156	52	412	79	731		
26	162	53	413	80	732		
27	165	54	423	81	734		

■ WARRANTY

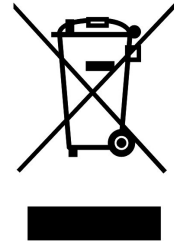
CPS Telecom will give 12 months warranty against failure made by the manufacturer from the date of purchase. The warranty will not cover damage made by the user, the user opening the equipment, moist, dirt, heat or cold. The warranty will not cover lightning/overvoltage.

Please contact your dealer if a problem with the equipment arises.

■ WASTE DISPOSAL

Electrical and electronic products can contain materials, parts and units that can be dangerous for the environment and human health. Products marked with the WEEE mark (shown below), shall not be disposed together with your normal household waste. Please inform yourself about the local rules and disposal collection system for electrical and electronic products. The correct disposal of your old product will help to prevent negative consequences for the environment and human health.

(WEEE = Waste of Electrical & Electronic Equipment).



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*processing

Federal Communications Commission (FCC) Interference 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 generate, 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 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The SAR limit adopted by USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The highest SAR value reported to the Federal Communications

Commission (FCC) and the Industry Canada (IC) for this device type when it is tested for use at the face is 0.182W/kg (75% Duty cycle), and that when it is properly worn on the body is 0.246 W/kg (75% Duty cycle).


The device complies with the RF specifications when the device is used near your body or at a distance of 2.5 cm from your face.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.



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