

牌照號碼:

Licence No.

電 訊 條 例 (第106章)
TELECOMMUNICATIONS ORDINANCE (Chapter 106)
香 港 HONG KONG
業 餘 電 台 牌 照
AMATEUR STATION LICENCE

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CALL SIGN:

(以下稱為“持牌人”), 地址為

of

現根據本牌照所載的條件獲得發給牌照以—

(hereinafter referred to as "the Licensee") is hereby licensed, subject to the conditions herein contained -

(甲) 管有、設置及維持一個用作無線電通訊的業餘發訊及收訊電台(以下稱為“該電台”);

(乙) 作為持牌人進行自我訓練的一部份, 透過發送及接收下列訊息及訊號, 使用該電台與其他業餘電台進行通訊—

(i) 與持牌人或其通訊人直接有關的私人訊息;

(ii) 構成發送上述訊息的一部份或與之有關的訊號(並非密碼或暗碼)。

(a) to possess, establish and maintain an amateur transmitting and receiving station for radiocommunications (hereinafter referred to as "the Station");

(b) to use the Station, as a part of the self-training of the Licensee, to communicate with other amateur stations by transmitting and receiving -

(i) messages about matters of a personal nature in which the Licensee, or the person with whom he is in communication, has been directly concerned;

(ii) signals (not being in secret code or cypher) which form part of, or relate to, the transmission of such messages.

一般條件**GENERAL CONDITIONS****使用的限制 Limitations of use**

1. 該電台只可使用通訊事務管理局(以下稱為“管理局”)在附表1所認許的發射類別、功率及頻帶。

The Licensee shall use only classes of emission, powers and frequency bands as authorized by the Communications Authority (hereinafter referred to as "the Authority") in Schedule 1.

2. (甲) 持牌人可根據管理局在附表2所指明, 將該電台—

(i) 長久或臨時設置於一個固定地點;

(ii) 設於香港境內的車輛上;

(iii) 設於在香港註冊或領牌的船隻或水上航行器上; 或

(iv) 以手提方式設於香港境內。

(乙) 持牌人不得將該電台設於飛機或其他航空器上。

(丙) 持牌人在未徵得管理局同意前, 不得更改附表2所指明的電台地點。

(丁) 附表1及附表1備註內所列的細節如有任何更改, 持牌人須在該細節更改後72小時內, 用管理局指定的表格, 以書面通知管理局。

(戊) 持牌人須在符合管理局在附表1及附表1備註內所訂的限制下, 設立該電台。

(a) The Licensee may establish the Station, as specified by the Authority in Schedule 2 -

(i) at a fixed location on a permanent or temporary basis;

(ii) on a vehicle within the territory of Hong Kong;

(iii) on a vessel or watercraft registered or licensed in Hong Kong; or

(iv) as a portable station within the territory of Hong Kong.

(b) The Licensee shall not establish the Station aboard an aircraft or other airborne vehicle.

(c) The Licensee shall not change the location of the Station as specified in Schedule 2 without the prior consent of the Authority.

(d) The Licensee shall notify the Authority in writing, in such form as the Authority may specify, of any change in the particulars set forth in Schedule 1 and Notes to the Schedule 1 within 72 hours of such change.

(e) The Licensee shall establish the Station subject to restrictions as stipulated by the Authority in Schedule 1 and Notes to the Schedule 1.

3. (甲) 在香港以外的國家或領域的管轄範圍內, 不得進行移動式的操作, 但如獲得該國家或領域的主管當局的許可, 則屬例外。

(乙) 當船隻或水上航行器在國際水域時, 持牌人只可使用根據“電信公約”(Telecommunication Convention) 經分配給該船隻或航行器所處區域內的業餘業務的頻帶。

(a) Mobile operation shall not be conducted within the jurisdiction of a state or territory outside Hong Kong except with the permission of the administration of such state or territory.

(b) When a vessel or watercraft is in international waters, the Licensee shall use only those frequency bands which, in accordance with the “Telecommunication Convention” (電信公約), have been allocated to the amateur service in the region being visited.

4. 持牌人須確保只有經他認許的人, 才可操作該電台。持牌人須確保在任何時間內, 操作該電台的人員均遵守本牌照的條款、規定及限制。

The Licensee shall ensure that only persons authorized by him operate the Station. The Licensee shall ensure that persons operating the Station shall observe the terms, provisions and limitations of this licence at all times.

核數編號

Audit No.

5. 本牌照並不授權任何人使用該電台－
(甲) 作商業、廣告或宣傳用途；或
(乙) 發送（持牌人或與持牌人通訊的人以外的）其他任何人或組織的消息或訊息，或代表這些人或組織發送消息或訊息、或為了這些人或組織的利益或資訊而發送消息或訊息，但如事前取得管理局書面同意者，則屬例外。
This licence does not authorize the use of the Station -
(a) for business, advertisement or propaganda purposes; or
(b) for the transmission of news or messages of, or on behalf of, or for the benefit or information of, any organization or any person other than the Licensee and the person with whom he is in communication unless the prior consent of the Authority in writing has been obtained.
6. 雖有一般條件第5（乙）條的規定，持牌人可在緊急事故或救災的情況下代表第三者，使用該電台傳送通訊。
Notwithstanding General Condition 5(b), the Licensee may use the Station for transmitting communications on behalf of third parties in case of emergencies or disaster relief.
7. (甲) 除非事先獲得管理局書面同意，持牌人不得傳送（除最初呼叫外）其他持牌業餘無線電操作者可以普遍接收的訊息，訊息只可傳送給－
(i) 個別持牌業餘無線電操作者；或
(ii) 持牌業餘無線電操作者的團體，但必須與任何其中一個團體內最少一名持牌業餘無線電操作者先行建立通訊。
(乙) 與香港以外的電台通訊時，持牌人須將訊息用明語電文傳送，並限於有關測試的技術性訊息及個人情況的述說。
(丙) 持牌人不得發送音樂、公共廣播或演辭。
(a) Except with the prior consent in writing of the Authority, the Licensee shall not send messages (other than initial calls) for general reception by licensed amateurs, but shall send messages to -
(i) individual licensed amateurs; or
(ii) groups of licensed amateurs as long as communication is first established separately with at least one licensed amateur in any such group.
(b) In the case of communication with stations outside Hong Kong, the Licensee shall send the messages in plain language and shall be limited to messages of a technical nature relating to tests, and to remarks of a personal character.
(c) The Licensee shall not transmit such material as music, public broadcasts or speeches.
8. 該電台不得發送令人厭惡的、淫褻的或不雅的訊息。
No message which is offensive, obscene or indecent shall be transmitted from the Station.
9. 如果接收到未經本牌照授權接收的訊息，持牌人或任何使用該電台的人除對管理局所正式授權的人員或具有適當管轄權的法律審裁處所正式授權的人員外，一概不得透露該訊息的內容、來源或目標、該訊息的存在及曾接收到該訊息；亦不得保留該訊息的副本或加以利用，或容許其他人抄錄、複製或利用該訊息。
If any message, the receipt of which is not authorized by this licence is received, neither the Licensee nor any person using the Station shall make known the contents of any such message, its origin or destination, its existence or the fact of its receipt to any person except a duly authorized officer of the Authority or a competent legal tribunal, and shall not retain any copy or make any use of any such message, or allow it to be reproduced in writing, copied or made use of.

儀器 Apparatus

10. (甲) 發訊儀器須採用令人滿意的頻率穩定法。
(乙) 必須裝有量度頻率及功率的設備，而這些設備必須能夠核證發訊儀器所作的發射是在認許的頻帶及功率限制範圍內。
(a) A satisfactory method of frequency stabilization shall be employed in the transmitting apparatus.
(b) Equipment for frequency and power measurement shall be provided capable of verifying that the transmitting apparatus is operating with emissions within the authorized frequency bands and power limits.
11. (甲) 組成該電台的儀器，在設計、構造、維修及使用上，須使該電台的使用不會導致對其他業餘電台、或任何其他獲正式發牌或認許的無線電通訊造成不必要的干擾。
(乙) 在任何時間，必須採取一切預防措施，以避免過度的調制，而對所使用的發射類別，亦須盡可能將輻射能量局限在最窄的頻帶內。諧波輻射及其他雜散發射尤須壓制至不會干擾任何無線電通訊的水平。此外，須不時進行測試，以確保符合本段的要求。
(a) The apparatus comprised in the Station shall be so designed, constructed, maintained and used that the use of the Station does not cause any undue interference to other amateur stations, or any other duly licensed or authorized radiocommunications.
(b) At all times, every precaution shall be taken to avoid over-modulation, and to keep the radiated energy within the narrowest possible frequency bands having regard to the class of emission in use. In particular, the radiation of harmonics and other spurious emissions shall be suppressed to such a level that they cause no interference to any radiocommunications. Tests shall be carried out from time to time to ensure that the requirements of this paragraph are met.
12. 天線的裝設及維修須符合良好的工程標準，以免對附近的人或財物造成不能接受的危險。
An aerial shall be installed and maintained to good engineering standard so as not to pose unacceptable risks to persons or property in the vicinity.

操作紀錄 Record of Operation

13. 該電台的操作紀錄須以管理局在附表1備註所訂明的格式及方式備存。
A record of operation of the Station shall be kept in the format and manner stipulated by the Authority in Notes to the Schedule 1.

電台呼號 Call sign

14. 操作該電台時，本牌照所授予的電台呼號須依照管理局在附表1備註所訂明的程序使用。
When the Station is operated, the call sign assigned under this licence shall be used in accordance with the procedure stipulated by the Authority in Notes to the Schedule 1.

檢查及關閉 Inspection and close-down

15. 在任何合理時間，該電台、本牌照及操作紀錄均須讓管理局所正式授權的人員檢查。
The Station, this licence and the record of operation shall be available for inspection at all reasonable times by duly authorized officers of the Authority.
16. (甲) 本牌照或管理局所發給的本牌照複本，須備存於裝設該電台的每一個固定地點、船隻、或水上航行器，以便管理局所正式授權的人員作出要求時，可提供查閱。
(乙) 持牌人須將由管理局發出的顯示該電台已領牌的標紙或文件－
(i) 展示在裝設該電台的車輛的擋風玻璃上；或
(ii) 張貼在手提儀器上。
(a) This licence, or its duplicate issued by the Authority, shall be available for inspection upon request by duly authorized officers of the Authority at each fixed location, vessel, or watercraft where the Station is installed.
(b) The Licensee shall -
(i) display on the windscreen of a vehicle in which the Station is installed; or
(ii) affix on a portable apparatus, such disc or document issued by the Authority showing the fact that the Station is licensed.
17. 該電台如對其他正式獲發給牌照或獲認許的無線電通訊造成不必要的干擾，在獲管理局授權的人作出要求時，該電台必須關閉。
The Station shall be closed down on the demand of a person acting under the authority of the Authority when undue interference is being caused to other duly licensed or authorized radiocommunications.

釋義 Interpretation

18. 在本牌照內－
“私人訊息”並不包括商業事務的訊息；
“訊息”及“訊號”包括電話、視覺通訊、數碼通訊及電報；
“電信公約 (Telecommunication Convention)”指當時適用於香港的任何《國際電信公約》及增補於該公約的《無線電規則》。

In this licence -

"messages about matters of a personal nature" does not include messages about business affairs;
"messages" and "signals" include telephony, visual communication, digital communication and telegraphy;
"the "Telecommunication Convention" (電信公約)" means any Constitution and Convention of the International Telecommunication Union, and the Radio Regulations which complement thereto, which for the time being applies to Hong Kong.

其他 Others

19. 持牌人以及持牌人憑本牌照而獲授權設置及使用的電台的所有操作人員，均須遵守及符合“電信公約”(Telecommunication Convention)的有關條文。
The Licensee and all persons operating any stations which the Licensee is authorized by this licence to establish and use shall observe and comply with the relevant provisions of the “Telecommunication Convention” (電信公約).
20. (甲) 本牌照的有效期為管理局在發出本牌照時決定和公布適用於業餘電台牌照的期間。
(乙) 持牌人須繳付當其時由管理局不時決定和公布適用於業餘電台牌照的費用。
(丙) 管理局可在發出日期後，藉向持牌人送達書面通知，在任何時間撤銷本牌照或更改本牌照的條款、條文或限制。根據本條作出的通知可即時生效或於該通知所指定的較後日期生效。
(a) This Licence shall be valid for such period as determined and published by the Authority to be applicable to Amateur Station Licence at the time of the issue of this licence.
(b) The licensee shall pay the fees applicable to Amateur Station Licence as may from time to time be determined and published by the Authority.
(c) The Authority may at any time after the date of issue revoke this Licence or vary the terms, provisions or limitations thereof by a notice in writing served on the Licensee. Any notice given under this clause may take effect forthwith or on such subsequent date as may be specified in the notice.
21. 本牌照不得轉讓。
This licence is not transferable.
22. 本牌照、管理局所發給的本牌照複本或顯示該電台已獲發給牌照的任何標紙或文件，須在本牌照期滿或撤銷後交回管理局。
This licence or its duplicate issued by the Authority or any disc or document issued by the Authority showing the fact that the Station is licensed shall be returned to the Authority when this licence has expired or been revoked.
23. 持牌人曾獲發給的有關該電台的牌照，不論牌照的名稱，現均予以撤銷。
Any licence, however described, which has previously been granted to the Licensee in respect of the Station is hereby revoked.
24. 管理局可酌情發表持牌人的姓名及地址，除非持牌人明確要求不要發表。
The Authority may publish the Licensee's name and address at its discretion unless the Licensee specifically asks that this should not be done.
25. 所傳送或接收的內容如享有版權，本牌照並不授權持牌人作出任何侵犯版權的行為。
This licence does not authorize the Licensee to do any act which is an infringement of any copyright which may exist in the matter sent or received.
26. 持牌人－
(甲) 須在切實可行範圍內盡快將其通訊地址的更改以書面通知管理局；及
(乙) 須在(甲)段及一般條件第2(丙)條所提及的任何更改生效時，將本牌照及附表交回管理局修改。
The Licensee -
(a) shall give notice, as soon as practicable, in writing to the Authority of any change of his address for correspondence; and
(b) shall return this licence and the Schedules to the Authority for amendment when any of the changes mentioned in paragraph (a) or General Condition 2(c) have been effected.

特別條件

SPECIAL CONDITIONS

1. (甲) 除(乙)段所指者外，電台必須祇可由持牌人操作，或在持牌人在場及直接監督的情況下由他人操作。
(乙) 電台亦可由一名獲持牌人認許的人操作，而該人必須持有管理局所發出的批准文件，准許其擔任業餘電台的操作員。
1. (a) Save as otherwise provided in paragraph (b), the Station shall be operated only by the Licensee, or in the presence of and under the direct supervision of the Licensee.
(b) The Station may also be operated by a person authorized by the Licensee in that behalf and possessing the written permission of the Authority to fill the position of operator of an amateur station for radiocommunications.
1. 除中繼站不需人手操作外，電台必須由一名獲持牌人授權的人操作，或在該名獲持牌人授權的人在場及監督的情況下由他人操作；而該名獲授權人必須持有管理局所發出的批准文件，准許其擔任為業餘電台操作員。
1. Except for repeater station which may be unmanned, the Station shall be operated by, or in the presence of and under the supervision of, a person who has been authorized by the Licensee in that behalf and who possesses the written permission of the Authority to fill the position of operator of an amateur station for radiocommunications.

通訊事務管理局
() 代行
**For and on behalf of the
Communications Authority**

附表 1 SCHEDULE 1
業餘電台牌照 Amateur Station Licence

頻帶 (兆赫) Frequency Bands in MHz	頻率劃分 Frequency Allocation (見備註 1) (See Note 1)	許可發射類別 Class of Emission Permitted (見備註 2) (See Note 2)	最大功率 (dBW) Maximum Power in dBW (見備註 3) (see Note 3)	
			載波 carrier	峰包功率 PEP
1.8 - 2.0 ; 3.5 - 3.9	主要，業餘業務 primary, amateur service	莫爾斯電報 Morse 話音通訊 Telephony 無線電傳印字機 RTTY 數據 Data 圖文傳真 Facsimile 慢掃描電視 SSTV 電視及脈衝 — 只限於頻率在5,725兆赫以上 Television & Pulse —only for frequency above 5,725MHz	20	26
5.3515 - 5.3665	次要，業餘業務 secondary, amateur service		11.76^	---
7.0 - 7.1	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service		20	26
7.1 - 7.2	主要，業餘業務 primary, amateur service			
10.1 - 10.15	次要，業餘業務 secondary, amateur service			
14.0 - 14.25	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
14.25 - 14.35	主要，業餘業務 primary, amateur service			
18.068 - 18.168	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
21.0 - 21.45	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
24.89 - 24.99	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
28.0 - 29.7	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
50.00 - 51.50 52.025 - 52.11	主要，業餘業務 primary, amateur service			
144.0 - 146.0	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service		14 (14 / 7 *)	20
430.0 - 431.0 435.0 - 438.0 435.0 - 439.8	次要，業餘業務 secondary, amateur service 次要，衛星業餘業務 secondary, amateur satellite service 次要，業餘業務 secondary, amateur service		20 (14 / 7 *)	26
2,400 - 2,450	次要，衛星業餘業務 secondary, amateur satellite service		20	26
5,650 - 5,670	次要，衛星業餘業務，只限地面至太空方向 secondary, amateur satellite service, limited to earth-to-space direction		20	26
5,725 - 5,850	次要，業餘業務，使用者須接受工業，科學 及醫療（工科醫）使用者所產生的干擾 secondary, amateur service, users must accept interference from ISM users		6 #	---
10,450 - 10,500	次要，業餘和衛星業餘業務 secondary, amateur and amateur satellite service		7	13
24,000 - 24,250	次要，業餘業務，使用者須接受工業，科學 及醫療（工科醫）使用者所產生的干擾 secondary, amateur service, users must accept interference from ISM users		20	26
47,000 - 47,200	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
76,000 - 77,500	次要，業餘和衛星業餘業務 secondary, amateur and amateur satellite service			
77,500 - 78,000	主要，業餘和衛星業餘業務 primary, amateur and amateur satellite service			
78,000 - 81,000	次要，業餘和衛星業餘業務 secondary, amateur and amateur satellite service			

* 見備註 3 (乙) see Note 3 (b)

見備註 3 (丙) see Note 3 (c)

^ 見備註 3 (戊) see Note 3 (e)

附表 1 備註
NOTES TO THE SCHEDULE 1

(1) 頻率劃分

- (甲) 主要業務：— 在對任何其他認可的主要業務不構成干擾的條件下，一個頻帶可以劃分給業餘業務和／或衛星業餘業務作主要業務之用。
- (乙) 次要業務：— 在下列條件下，一個頻帶可以劃分給業餘業務和／或衛星業餘業務作次要業務之用：—
- (i) 不得對已經指配或將來可能指配頻率的主要業務或許可業務電台產生干擾；和
 - (ii) 不得要求保護不受來自已經指配或將來可能指配頻率的主要業務或許可業務電台的干擾。

(1) Frequency Allocation

- (a) Primary:- A frequency band is allocated to the amateur and/or amateur satellite service on a primary basis on condition that no interference is caused to any other authorized service on a primary basis.
- (b) Secondary:- A frequency band is allocated to the amateur and/or amateur satellite service on secondary basis on condition that :-
- (i) no interference is caused to stations of primary or permitted services to which frequencies are already assigned or to which frequencies may be assigned at a later day; and
 - (ii) no protection can be claimed from interference from stations of primary or permitted services to which frequencies are already assigned or to which frequencies may be assigned at a later day.

(2) 發射類別

根據國際電信聯盟（國際電聯）所出版的無線電規則，發射類別是以每組三個的字符加以標識。此處所界定的發射類型是根據第三個字符劃分的。

- (甲) 連續載波 (CW)：於主載波上以開／合鍵調幅方式並供人工收聽接收的發射類別。
莫爾斯電報：採用任何以「A」作結的發射類別並供人工收聽接收的莫爾斯電報技術。
話音通訊：採用任何以「E」作結的發射類別的話音通訊。
電視：採用任何以「F」作結的發射類別的電視。此類型只可在 1 GHz 以上的頻段中使用。
無線電傳印字機 (RTTY)：採用任何以「B」作結的發射類別的自動接收的電報技術，包括使用國際電報電話諮詢委員會的任何認可密碼的傳印字機，以及供自動接收的莫爾斯報。
數據：採用任何以「D」作結的發射類別的數據。無線電規則規定不同國家的業餘電台互發訊息時，須使用明語。因此所有發射均只可使用國際電報電話諮詢委員會的認可密碼（使用明語）。
圖文傳真：採用任何以「C」作結的發射類別圖文傳真。
慢掃描電視：在窄帶寬中採用任何以「F」作結的發射類別的電視。
- (乙) 同時採用以上任何發射類型的組合，例如電話技術和數據，以「W」作結的發射類別。
- (丙) 脈衝：採用任何以「P」作結的發射類別的脈衝。此類型只可在 1GHz 以上的頻帶中使用。

(2) Class of Emission

Under the Radio Regulations published by the International Telecommunication Union (ITU) classification of emissions are designated by groups of three characters. The types of emissions defined here are grouped according to the third character.

- (a) Continuous Wave (CW) : Amplitude-modulated transmission by on/off keying the main carrier intended for aural reception.
Morse : Morse telegraphy intended for aural reception using any classes of emission ending in E.
Telephony : Telephony using any classes of emission ending in E.
Television : Television using any classes of emission ending in F. This may only be used in frequency bands above 1 GHz.
Radio Teleprinter (RTTY) : Automatic telegraphy using any classes of emission ending in B. This includes teleprinters using any CCITT recognized codes, and morse telegraphy intended for automatic reception.
Data : Data using any classes of emission ending in D. The Radio Regulations require that transmissions between amateur stations in different countries shall be in plain language. All transmissions shall therefore be restricted to using CCITT recognized codes (in plain language).
Facsimile : Facsimile using any classes of emission ending in C.
Slow Scan Television (SSTV) : Television operating in a narrow bandwidth using any classes of emission ending in F.
- (b) Simultaneous use of combinations of any of the preceding types of transmission, e.g. Telephony and Data, are described as classes of emission ending in W.
- (c) Pulse: Pulse using any classes of emission ending in P. This may only be used in frequency bands above 1 GHz.

(3) 功率

- (甲) 最大功率是指供應給天線的無線電射頻功率。最大功率會以載波功率規定。對具有抑制、可變或減幅載波的發射，有關功率會在線性的情況下由峰包功率(p.e.p.)決定。至於脈衝發射，平均功率不得超過載波功率，而峰值功率則不得超過為該頻帶所訂定的 p.e.p。
- (乙) 144至146 MHz 頻帶和430至440 MHz 的劃分頻帶的移動操作，最大有效輻射功率限制為14 dBW。而手提式操作，限制為7 dBW。
- (丙) 5.725 - 5.850 GHz 頻帶的操作，最大等效全向輻射功率限制為6 dBW。
- (丁) 發射帶寬必須可確保能最有效率地使用有關頻譜：一般來說，帶寬必須保持在科技及有關業務許可可容許的最低值。若使用帶寬擴展技術，則必須採用符合有效率地使用頻譜的最低頻譜功率密度。不過，無論使用何種發射類別，所擬發射佔用的帶寬，須符合在認可頻帶以外不可超過其平均發射功率 1% 的規定。這 1% 不包括譜波和寄生發射所包含的功率。
- (戊) 5.3515 - 5.3665 MHz 頻帶的操作，最大等效全向輻射功率限制為11.76 dBW。

(3) Power

- (a) Maximum power levels refer to the radio-frequency power supplied to the antenna. These levels will be specified by carrier power. For emissions having a suppressed, variable or reduced carrier the power shall be determined by the peak envelope power (p.e.p.) under linear conditions. For pulse emissions the mean power shall not exceed the carrier power and the peak power shall not exceed the p.e.p. stipulated for that frequency band.
- (b) For mobile operation in the frequency band of 144 - 146 MHz and allocated bands in the 430 - 440 MHz a maximum of 14 dBW erp is permitted. For portable operation the corresponding limit is 7 dBW erp.
- (c) For operation in the frequency band 5.725 - 5.850 GHz, a maximum of 6 dBW equivalent isotropically radiated power (e.i.r.p.) is permitted.
- (d) The bandwidths of emissions shall be such as to ensure the most efficient utilisation of the spectrum : in general this requires that bandwidths be kept at the lowest values which technology and the nature of the service permit. Where bandwidth-expansion techniques are used the minimum spectral power density consistent with efficient spectrum utilisation shall be employed. However whatever class of emission is in use the bandwidth occupied by the intended emission shall be such that not more than 1% of the mean power of the transmission shall fall outside of the authorized bands. This 1% does not include the power contained in harmonic and spurious emissions.
- (e) For operation in the frequency band 5.3515 - 5.3665 MHz, a maximum of 11.76 dBW e.i.r.p. is permitted.

(4) 無線電引致的意外

- (甲) 由於強烈的射頻輻射可能會有危害，所以下列安全限制適用於人們暴露於該種輻射中的地點：—

頻率 f(以MHz計)	電場強 (V/m)	等效平面波功率密度 Seq(W/m ²)
1-10	87/√f	-
10-400	28	2

400-2,000	$1.375\sqrt{f}$	$f/200$
2,000-300,000	61	10

至於脈衝發射，以脈衝寬度平均計算的等效平面波功率密度不得超過一千乘以上述為有關頻率所訂定的限制，條件是以為時六分鐘平均計算時，所規定的限制本身不會被超過而又可免除被射頻灼傷的危險。

(乙) 為避免射頻意外地燃著易燃的空氣，任何油站前的空地範圍內均不得使用三十兆赫以下的流動無線電台。

(4) **Radio Hazard**

(a) Since high intensities of radio-frequency radiation may be harmful, the following safety limits will apply in locations to which people will be exposed :-

Frequency range	E-field strength	Equivalent plane wave power density
f (in MHz)	(V/m)	$\text{Seq}(\text{W/m}^2)$
1-10	$87/\sqrt{f}$	-
10-400	28	2
400-2,000	$1.375\sqrt{f}$	$f/200$
2,000-300,000	61	10

For pulse emissions, the equivalent plane wave power density as averaged over the pulse width shall not exceed 1,000 times the specified limit given above for the frequency concerned, provided that the specified limit itself is not exceeded when averaged over a period of 6 minutes, and hazards of radio-frequency burns are eliminated.

(b) To avoid inadvertent ignition of inflammable atmospheres by radio-frequency, mobile radio stations below 30 MHz should not be used in the forecourts of any petroleum fuelling stations.

(5) **電台呼號**

(甲) 每次使用電台時，必須發送牌照第一頁所述的電台呼號。手提式操作須在電台呼號後面加上“/P”；移動操作須在電台呼號後面加上“/M”；水上移動操作須在電台呼號後面加上“/MM”。

(乙) 在每段發送的開始及結束時必須發出電台呼號以作識別，而每當射頻或發射類別有所改變時，亦須發出電台呼號。若使用電台的時間超過十五分鐘，必須在接著的每十五分鐘開始之時重覆(以同一方式)電台呼號。

(丙) 若使用電話技術發送電台呼號，可讀出詞首字母與電台呼號的詞首字母一樣的熟悉單字，以確定電台呼號的字母。不過，該等單字不得含有滑稽或不良的意識。

(丁) 若非利用電話技術或莫爾斯電報的方式發送訊號，電台呼號必須清晰可辨。

(5) **Call Sign**

(a) Whenever the Station is used the call sign mentioned on the first page of the Licence shall be transmitted, provided that the suffix "/P" shall be added to the call sign for portable operation, the suffix "/M" added to the call sign for mobile operation and the suffix "/MM" added to the call sign for maritime mobile operation.

(b) The call sign shall be sent for identification purposes at the beginning and at the end of each period of sending and whenever the frequency or the class of emission is changed. When the period of use exceeds 15 minutes the call sign shall be repeated (in the same manner) at the commencement of each succeeding period of 15 minutes.

(c) When telephony is used for sending the call sign the letters of the call sign may be confirmed by the pronouncement of well-known words of which the initial letters are the same as those in the call sign: but words used in this manner shall not be of a facetious or objectionable character.

(d) When sending signals in modes other than telephony or Morse telegraphy, the call sign shall be clearly identifiable.

(6) **紀錄**

(甲) 持牌人必須保存列明以下資料的永久紀錄：—

- (i) 發訊日期；
- (ii) 電台每日首次及最後一次發訊的時間（協調世界時）；
- (iii) 頻帶；
- (iv) 發射類別；
- (v) 功率；
- (vi) 彼此已建立通訊的業餘電台牌照的呼號；
- (vii) 按照牌照條件第11(乙)條的規定進行測試的詳情。

(乙) 移動和手提式操作無須留存紀錄，但使用低於30兆赫頻帶操作則除外。

(丙) 不論以何種方式留存紀錄，紀錄所載條目須能予以檢索及製成複製件，以便日後審核。

(丁) 根據牌照條件第15條的規定，持牌人必須由最後載入起計留存有關紀錄至少六個月。

(6) **Record**

(a) A permanent record shall be kept by the Licensee showing:-

- (i) Date of transmission;
- (ii) The times (in Co-ordinated Universal Time) during each day of the first and last transmissions from the Station;
- (iii) Frequency band;
- (iv) Class of emission;
- (v) Power;
- (vi) Call signs of licensed amateur stations with which communications have been established;
- (vii) Details of the tests carried out in accordance with General Condition No. 11(b).

(b) Except for operation in frequency bands below 30 MHz, there is no need to keep record for mobile and portable operation.

(c) Regardless of how the record is kept, entries in the record should be retrievable and available in hard copies for later inspection.

(d) Pursuant to General Condition No. 15, the Licensee shall keep the record for at least 6 months from the date of the last entry.

(7) **須予通知的資料**

(甲) 根據牌照條件第2(丁)條的規定，若電台資料有任何轉變，持牌人須在該轉變作出後72小時內通知通訊事務管理局。

(乙) 該些資料包括：

- (i) 所藏有的發送器材的數量，包括所擁有的手提器材（如有）的數量；及
- (ii) 每件器材的廠名、型號及機身編號。若持牌人自行製造器材，則須予通知的資料為有關器材可使用的發射類別、頻帶及最大功率。

(7) **Particulars to be Notified**

(a) Pursuant to General Condition No.2(d), the Licensee shall notify the Communications Authority of any change in his station particulars within 72 hours of such change.

(b) These particulars are:-

- (i) the quantity of the transmitting apparatus that he has in his possession, including the number of portable apparatus (if any); and
- (ii) the make, model and serial number of each of these apparatus. In case the Licensee has constructed his own apparatus, he should notify the classes of emission, frequency bands and maximum power with which the apparatus is capable of working.

牌照號碼:
Licence No.:

附表 2 SCHEDULE 2
業餘電台牌照 Amateur Station Licence

電台地點 Location of Station	備註 Remarks

香港特別行政區通訊事務管理局辦公室 No.
OFFICE OF THE COMMUNICATIONS AUTHORITY
HONG KONG SPECIAL ADMINISTRATIVE REGION
業餘無線電台操作授權證明
AUTHORITY TO OPERATE - AMATEUR STATION

姓名 :

Name :

呼號 Call Sign :

牌照類別 :

Licence Category :

有效期至 Valid Until :

1. 本操作授權證明持有人被批准操作已領有通訊事務管理局發給牌照的業餘無線電設備。

The holder of this Authority To Operate is authorized to operate amateur radio equipment licensed by the Communications Authority.

2. 本操作授權證明屬於香港通訊事務管理局所擁有。在本局要求下，本證須退還本局。

This Authority To Operate belongs to Hong Kong Communications Authority and should be returned to Hong Kong Communications Authority on demand.

如有查詢，請致電：

辦公時間

電話：2961 6278

傳真：3155 0932

非辦公時間

電話：2389 8131

傳真：2357 9763

Any queries please call:

Office Hours

Tel.No.: 2961 6278

Fax No.: 3155 0932

Outside Office Hours

Tel. No.: 2389 8131

Fax No.: 2357 9763

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通訊事務管理局(代行)
for the Communications Authority

OFCA D281 (12)