THE CHINESE UNIVERSITY OF HONG KONG

Guidelines on Operation of Unmanned Aerial Systems at CUHK

1. <u>Introduction</u>

Unmanned Aerial Systems (UASs), commonly known as drones, have been growing by leaps and bounds in recent years in Hong Kong, due to fast-developing technology and declining costs. There is currently no legislation in Hong Kong regulating specifically the operations of UASs. However, a number of issues including safety concerns and privacy issues need to be addressed. In order to maintain UAS operations safe and orderly on campus, this set of guidelines has been drawn up for those who intend to operate UASs for teaching and research purposes as well as for other non-commercial (but not recreational) activities within the campus. The guidelines apply to all operations of UASs on campus, regardless whether the operator concerned is from the University community or an external party.

2. <u>Major principles</u>

- The flying of UASs within the airspace of the University campus must be operated by competent operators who have obtained prior approval from the University and if required, valid permits issued by the Civil Aviation Department (CAD), HKSARG.
- Only operations for legitimate purposes related to University activities, viz. research, teaching, operational or promotional activities of the University will be allowed. Operation of UASs for recreational purpose is not allowed on campus. Applicants should be members of staff or students and applications should be made on a Department/Unit basis. Applications from external parties should be submitted through the University Department/Unit hosting/co-sponsoring the proposed activities on campus.
- The UAS must not fly over the No Flying Zones (<u>Appendix 1</u>) and staff/student quarters at CUHK, as well as inside buildings or premises.
- The application for flying UAS within the airspace of the University shall be approved only if:
 - \checkmark The procedure set out in the following section has been complied with properly;
 - \checkmark Adequate insurance coverage of the operation has been procured; and
 - ✓ The associated risks and privacy issues from the use of the UAS have been properly addressed.

3. <u>Application procedures</u>

Apart from the internal requirement, applicants should take note of the following requirements under the prevailing laws: The user of the UAS must possess a valid permit issued by the CAD if an aircraft (without fuel) is above a designated weight (currently 7 kg) OR an aircraft of any weight using for hire or reward. All such flight proposals submitted to the University should therefore require valid permits issued by CAD. Authorization/permission from the University, as the land owner, forms part of the required documents for UAS applications to CAD. In this connection, an approval-in-principle from the University will be granted upon clearance from the internal procedure as set out below.

- (a) All applications, with the purpose of flight(s), the proposed schedule and area(s) of operation clearly stated, should be made on the designated proforma.
- (b) First-tier endorsement by the Chairman/Head of the hosting Department/Unit should be granted upon affirming the legitimate purpose of operating UASs on campus, as well as the

assurance that competent operators will be engaged for the flights and there be an undertaking for full compliance with these guidelines.

- (c) An application endorsed by the Chairman/Head of the hosting Department/Unit should be submitted to the Estates Management Office (EMO to coordinate the vetting process by the following Professional and Administrative Service (PAS) Units for advice to the approval authority:
 - (i) Estates Management Office (EMO) to assess/advise on the availability of the proposed operation areas;
 - (ii) University Safety Office (USEO) to assess/advise on the proposed operation areas and safety concerns, if any;
 - (iii) Security Office (SCU) to assess/advise on the proposed schedule and orderly operation of UASs; and
 - (iv) Audio-Visual Division (CUAV) to arrange site test(s) for the operator(s) to ascertain the safe operation of the UAS on campus, particularly in respect of those applications where CAD's permit is not required.
- (d) Upon clearance from the PAS units (viz., EMO, USEO, SCU and CUAV), the applicant may submit the application for consideration/approval by the respective University authority, i.e. Faculty Dean in the case of faculty-based units and Supervising Officers in the case of non-faculty-based units.
- (e) Upon approval by the relevant authority:
 - (i) For UAS (without fuel) weighing not more than the designated statutory limit (currently 7 kg or less) AND the operation is not for hire or reward, the applicant should inform SCU for issuance of internal permit to enable the flying operation.
 - (ii) For UAS (without fuel) weighing more than the designated statutory limit (currently 7 kg) OR UAS of any weight for hire or reward, EMO will issue written approval-in-principle to facilitate the CAD application. The applicant should arrange for an appropriate insurance to be taken out in the joint name with the University or liaise with the service provider of the flying operation to arrange for such insurance coverage to be payable by the service provider. Departments/Units could contact Business Office for the insurance requirements of the University. Applicant should then start the CAD application. Please refer to the following link for information: https://e-submission.cad.gov.hk/&common/cad/fcballon.nsf/uas?openform. Upon obtaining the CAD's approval, the applicant should file a copy to SCU for issuance of internal permit to enable the flying operation.

4. <u>UAS to be Operated by Students of CUHK</u>

Students who wish to operate a UAS for non-recreational purpose should submit the application (a) through their affiliating Departments/Units OR (b) in the name of a student body through the Office of Student Affairs (OSA), which must have been registered under the Student Union or the OSA. It shall be the responsibility of the student applicant or the concerned student body to submit and follow through the application to CAD and EMO set out in paragraph 3 above. OSA only assumes the role of coordination for the application from the student body.

5. <u>Privacy Concerns</u>

Users of the UAS should be particularly mindful of the need to respect personal data privacy to eliminate or reduce the harmful effects of these highly privacy-intrusive features. The UAS must not fly over the *No Flying Zones* (Appendix 1) and staff quarters/student hostels at CUHK.

The use of a UAS with camera is regulated by the Personal Data (Privacy) Ordinance [Cap. 482] as it may involve the collection of personal data. In March 2015, the Office of the Privacy Commissioner for Personal Data issued the Guidance on CCTV Surveillance and Use of Drones: (https://www.pcpd.org.hk/english/resources_centre/publications/files/GN_CCTV_Drones_e.pdf) This guide contains reminders that drone operators (i.e. those who operate camera equipped drones) are regulated by the Personal Data (Privacy) Ordinance (including the Data Protection Principles therein) and have a duty to respect personal privacy. The guide also offers guidelines on recording, handling recorded images, retention and encryption of image transmission. However, the guide does not have the force of law, so the Government must necessarily rely on the Personal Data (Privacy) Ordinance or other existing laws when evaluating any public offenses involving drones (and UASs).

6. <u>Operation of UASs</u>

Before the operation of the UAS, the applicant via the hosting Department/Unit concerned should issue notice to all relevant parties who may be involved or affected. During the operation, the hosting Department/Unit (or the service provider) must ensure their risk control measures have been properly implemented, and they are well prepared for any emergencies. One staff member (or a student representative in the case of a student body) should be assigned by the hosting Department/Unit concerned as the officer-in-charge on the spot, who should carry the internal permit issued by SCU throughout the operation.

All operations of UASs on campus should follow the safety guideline for the operation of UASs established by CAD. Users of UASs must comply with all applicable requirements: <<u>https://www.cad.gov.hk/english/Unmanned_Aircraft_Systems.html</u>>

7. <u>Suspension of UASs</u>

Operation of the UAS may be suspended if:

- there is any unsafe act;
- deviation from the approved flight plan and/or risk control measures is observed;
- the emergency plan/procedure is not ready; or
- any legitimate concern or valid complaint from the public or occupant of the University is received.

8. <u>Violations of the University's policies and guidelines</u>

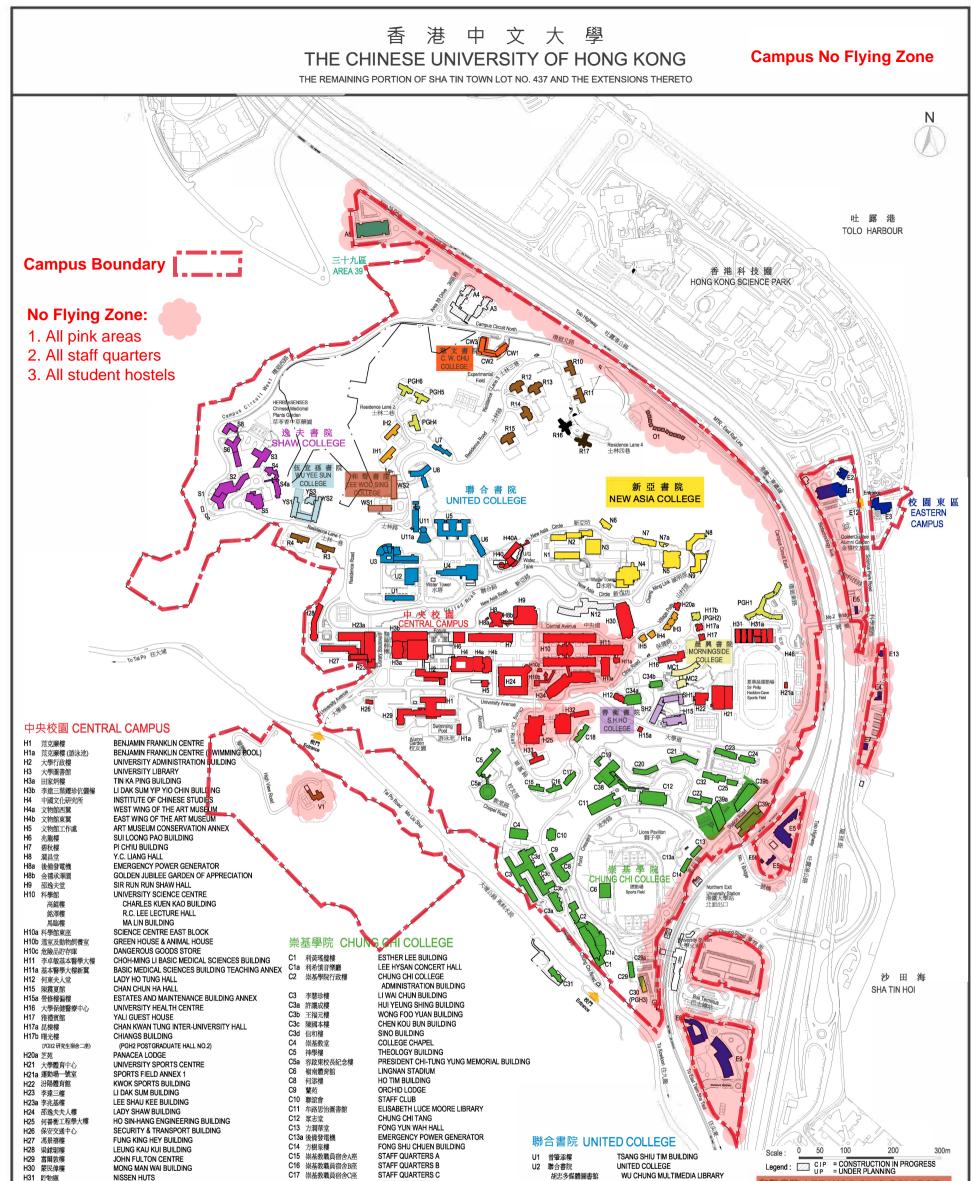
Any violations of the University's policies and guidelines will be handled in accordance with applicable disciplinary procedures and depending on the gravity of the case, can be a subject of civil proceedings in court.

Useful references:

- CAD UAS on-line application form: https://e-submission.cad.gov.hk/&common/cad/fcballon.nsf/uas?openform
- CAD Operations of UAS: <u>https://www.cad.gov.hk/english/Unmanned_Aircraft_Systems.html</u>
- Guidance Note on CCTV Surveillance and Use of Drones by the Office of the Privacy Commissioner for Personal Data in March 2015: https://www.pcpd.org.hk/english/resources_centre/publications/files/GN_CCTV_Drones_e.pdf

(October 2018)

Appendix 1



	H31 貯物庫 H31a	NISSEN HUTS NEW OFFICE BUILDING	C18 崇基教職員宿舍D座 C19 崇基教職員宿舍G座	STAFF QUARTERS D STAFF QUARTERS G	 	T.C. CHENG BUILDING CHEUNG CHUK SHAN AMENITIES BUILDING	和雪
	H32 蒙民偉工程學大樓 H33 教研樓一座 H34 逸夫科學大樓	WILLIAM M.W. MONG ENGINEERING BUILDING ACADEMIC BUILDING NO.1 RUN RUN SHAW SCIENCE BUILDING	C20 華連堂 C21 明華堂	HUA LIEN TANG MING HUA TANG	U5 湯若望宿舍 U6 伯利衡宿舍	ADAM SCHALL RESIDENCE BETHLEHEM HALL	WS1 WS2
	H40 衛星遙感地面接收站 H40a 霍英東遙感科學館	SATELLITE REMOTE SENSING RECEIVING STATION FOK YING TUNG REMOTE SENSING SCIENCE BUILDING	C22 應林堂 C23 何善衡夫人宿舍	YING LIN TANG MADAM S.H. HO HALL WEN CHIH TANG	U7 聯合苑 U8 恆生樓	U.C. STAFF RESIDENCE HANG SENG HALL	研究
	H46 物業管理處 校園東區 EASTE	EMO BUILDING	C24 文質堂 C25 崇基教職員宿舍S座 C29 崇基教職員宿舍E座	STAFF QUARTERS S STAFF QUARTERS E	U11 陳震夏宿舍 U11a 思源廣場	CHAN CHUN HA HOSTEL SI YUAN AMPHITHEATRE	PGH PGH
	E1 香港生物科技研究院 E2 教研樓二座	HONG KONG INSTITUTE OF BIOTECHNOLOGY ACADEMIC BUILDING NO.2	C29a	ENTRANCE PIAZZA OUTSIDE MTR UNIVERSITY STATION	逸夫書院 SHAW S1 國爆樓 (高座)	KUO MOU HALL (HIGH BLOCK)	PGH
	E3 李福善海洋科學研究中心 李福善樓	SIMON F.S. LI MARINE SCIENCE LABORATORY SIMON F.S. LI BUILDING	C30 博文苑 (PCH3 研究生宿舍三座) C31 文林堂	INTER-UNIVERSITY HALL (PGH3 POSTGRADUATE HALL NO.3) WEN LIN TANG	S2 國楙樓(低座) S3 文瀾堂 S4 雅群樓	KUO MOU HALL (LOW BLOCK) WEN LAN TANG YA QUN LODGE	PGH PGH PGH
	E4 水上活動中心 E5 上海總會科研技術中心	WATER SPORTS CENTRE SHANGHAI FRATERNITY ASSOCIATION RESEARCH SERVICES CENTRE	C32 利樹培堂 C34a 五旬節會樓 (高座)(祖泰堂)	LEE SHU PUI HALL PENTECOSTAL MISSION HALL COMPLEX (HIGH BLOCK) (SIR CHO YIU HALL)	S4a 褟永明樓 S5 大講堂 S6 逸仙樓	HUEN WING MING BUILDING SHAW COLLEGE LECTURE THEATRE YAT SEN HALL	國
	E5a 自然地理實驗站 E5b 廢物處理處	PHYSICAL GEOGRAPHY EXPERIMENTAL STATION WASTE DISPOSAL FACILITIES	(高盛)(風発室) C34b 五旬節會樓 (低座)	(HIGH BLOCK) (SIR CHO YID HALL) PENTECOSTAL MISSION HALL COMPLEX (LOW BLOCK)	S8 第二學生宿舍(低座)	STUDENT HOSTEL 2 (LOW BLOCK)	IH1 IH2 IH3
	E6 車輛維修站 E7 垃圾收集站 E8 鄭裕彤樓	VEHICLE MAINTENANCE WORKSHOP REFUSE COLLECTION DEPOT CHENG YU TUNG BUILDING	C38 龐萬倫學生中心 C39a 康本國際學術園	POMMERENKE STUDENT CENTRE YASUMOTO INTERNATIONAL ACADEMIC PARK	長興書院 MORN MC1 格林伯格樓	VINGSIDE COLLEGE	IH3
	E9 香港凱悅酒店-沙田 (香港中文大學教學酒店	HYATT REGENCY HONG KONG, SHA TIN (Hotel Facilities of the Teaching Hotel	C39b 伍何曼原樓 C39c 綜合教學樓	WU HO MAN YUEN BUILDING AN INTEGRATED TEACHING BUILDING	MC2 高座	HIGH BLOCK	IH5
	的酒店設施) E12 金禧校友園	of The Chinese University of Hong Kong) GOLDEN JUBILEE ALUMNI GARDEN			善衡書院 S.H. H		教
	E13 衛星遙感地面接收站	SATELLITE REMOTE SENSING RECEIVING STATION	N1	CHENG MING BUILDING HUMANITIES BUILDING	SH1 何添堂 SH2 利國偉堂	LEE QUO WEI HALL	V1
	三十九區 AREA	39 DOCKEY CLUB POSTGRADUATE HALL 2 (C(P)	N3 錢穆圖書館 N4 樂群館 - 梁雄姫樓	CH'IEN MU LIBRARY STAFF STUDENT CENTRE - LEUNG HUNG KEE BUILDING	敬文書院 C.W. (CW1 何陳婉珍樓	INA HO CHAN UN CHAN BUILDING	R3 R4 R10
	(興建中 A4 賽馬會研究生宿舍(三座 (麗雄中) JOCKEY CLUB POSTGRADUATE HALL 3 (C.I.P.)	N5 知行樓 N6 會友樓	CHIH HSING HALL FRIENDSHIP LODGE	CW2學生宿舍 CW3朱謝玲玲樓	STUDENT HOSTEL MARINA TSE CHU BUILDING	R11 R12
	A8 羅桂祥綜合 生物醫學大樓	⁷ LO KWEE-SEONG INTEGRATED BIOMEDICAL SCIENCES BUILDING	N7 學思樓 N7a 合 一 亭	XUESI HALL PAVILION OF HARMONY		YEE SUN COLLEGE	R13 R14
	其他區域 OTHER 01 危險品貯存庫	S/OUTLYING AREA DANGEROUS GOODS STORES	N8 志文樓 N9 紫霞樓 N12 學生宿舍 <i>(興建中</i>)	GRACE TIEN HALL DAISY LI HALL STUDENT HOSTEL (CIP)	YS1 伍宜孫書院西座 YS2 伍宜孫書院東座 YS3 伍宜孫書院康體中心	WU YEE SUN COLLEGE WEST BLOCK WU YEE SUN COLLEGE EAST BLOCK WU YEE SUN COLLEGE ACTIVITY CENTRE	R15 R16 R17
- 1	○ 尼欧印刷 计理		114 学工1日占 (典理中)	OTODERTHOUTER (B.C.)	100 血且冰音阮尿胞中心	THE SOLL OF COLLEGE ACTIVITY CENTRE	111/

WS1 顧識華費肇芬伉儷樓 DOROTHY AND TI-HUA KOO BUILDING WS2 北座 NORTH BLOCK 研究生宿舍 POSTGRADUATE HALL PGH1 賽馬會研究生宿舍(一座)JOCKEY CLUB POSTGRADUATE HALL PGH2 研究生宿舍二座 POSTGRADUATE HALL NO.2 (H17b 曙光樓) (H17b CHIANGS BUILDING) PGH3 研究生宿舍三座 POSTGRADUATE HALL NO.3 ശ (C30 博文苑) (C30 INTER-UNIVERSITY HALL) PGH4 研究生宿舍四座 PGH5 研究生宿舍五座 POSTGRADUATE HALL NO.4 POSTGRADUATE HALL NO.5 POSTGRADUATE HALL NO.6 ision Rey PGH6 研究生宿舍六座 Date: 30 - 6 - 2016 國際生舍堂 INTERNATIONAL HOUSE 國際牛全堂一座 INTERNATIONAL HOUSE 1 INTERNATIONAL HOUSE 2 INTERNATIONAL HOUSE 3 國際生舍堂二座 國際生舍堂三座 図株工習業工程 (H20 職工宿舍第一座) (H20 MINOR STAFF QUARTERS 1) 國際生舍堂四座 INTERNATIONAL HOUSE 4 (出9 職工宿舍第二座) (H19 MINOR STAFF QUARTERS 2) 國際生舍堂五座 INTERNATIONAL HOUSE 5 Drawing No.: A3-MAP-LAYOUT-COLOUR.DWG (H18 職工宿舍第三座) (H18 MINOR STAFF QUARTERS 3) 教職員宿舍 RESIDENTIAL AREA VICE-CHANCELLOR'S RESIDENCE 漢園 第三苑 UNIVERSITY RESIDENCE NO.3 UNIVERSITY RESIDENCE NO.4 第四苑 UNIVERSITY RESIDENCE NO.10 UNIVERSITY RESIDENCE NO.11 UNIVERSITY RESIDENCE NO.12 第十苑 第十一苑 第十二苑 第十三苑 UNIVERSITY RESIDENCE NO.13 UNIVERSITY RESIDENCE NO.14 第十四苑 第十五苑 UNIVERSITY RESIDENCE NO.15 UNIVERSITY RESIDENCE NO.15 UNIVERSITY RESIDENCE NO.16 UNIVERSITY RESIDENCE NO.17 第十六苑 第十七苑