

2018年03月20日 (二)

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作者：Lock Sir



(https://www.dronesplayer.com/author/lock/)

人稱 Lock Sir 的周亦樂是香港航拍製作公司掌舵人兼

航拍課程講師，迷上航拍後，愛用全新的高空視野來看世界，亦喜歡跟其他人分享航拍視野帶來的新觀感。



本周熱門頭條新聞

(https://www.dronesplayer.com/? 新聞 (https://www.dronesplayer.com/uav-news/?

產品 (https://www.dronesplayer.com/uav-

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價格 (https://www.dronesplayer.com/drone-

https://www.dronesplayer.com/3881/%E4%B8%80%E5%AE%9A%E8%A6%81%E7%9F%A5%E7%9A%84%E7%84%A1%E4%BA%BA%E6%A9%9F%E7%B5%90%E6%A7%8B%E8%88%87%E9%A3%9B%E8%A1%8C%E5%8E

一定要知的無人機結構與飛行原理 航拍機新手必讀！

2016年05月1日

(https://www.dronesplayer.com/3881/%E4%B8%80%E5%AE%9A%E8%A6%81%E7%9F%A5%E7%9A%84%E7%84%A1%E4%BA%BA%E6%A9%9F%E7%B5%90%E6%A7%8B%E8%88%87%E9%A3%9B%E8%A1%8C%E5%8E%9F%E7%90%86/) Lock Sir (https://www.dronesplayer.com/author/lock-sir/) Lock Sir 航拍 (https://www.dronesplayer.com/tag/lock-sir-%E8%88%AA%E6%8B%8D/) 空拍機教學 (https://www.dronesplayer.com/tag/%E7%A9%BA%E6%8B%8D%E6%A9%9F%E6%95%99%E5%AD%B8/)

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無人機最早出現於第二次世界大戰時，直至近幾年有廠商逐步把軍用無人機技術轉移至電子消費品的生產之上，製成定價較平、操作較易的無人機，始令無人機在消費者市場大熱起來。今次 Lock Sir 便為大家講解無人機的運作結構及飛行原理。

無人機 6 大構成部分



(https://www.dronesplayer.com/wp-content/uploads/2016/06/drone-system-structure-revised.jpg)

DronesPlayer 獲網友指正，對以上的無人機結構圖作出修訂。

1. 飛行器機架



/phantom-4-pro-v2-0-%E4%B8%8A%E5%B8%82%E5%9C%A8%E5%8D%B3%EF%BC%9F%E3%80%80%E5%A6%82-mavic-pro-%E9%89%91%E9%87%91%E7%89%88%E7%9A%84%E5%8D%87%E7%B4%9A%E7%BF%BB%E7%89%88/) Phantom 4 Pro V2.0 上市在即？如 Mavic Pro 鉅金版的升級翻版 (https://www.dronesplayer.com/75566/phantom-4-pro-v2-0-%E4%B8%8A%E5%B8%82%E5%9C%A8%E5%8D%B3%EF%BC%9F%E3%80%80%E5%A6%82-mavic-pro-%E9%89%91%E9%87%91%E7%89%88%E7%9A%84%E5%8D%87%E7%B4%9A%E7%BF%BB%E7%89%88/) 登入 (https://www.dronesplayer.com/drones-login)



(https://www.dronesplayer.com/75635/%E7%84%A1%E4%BA%BA%E6%A9%9F%E5%A2%AE%E5%9C%B0%E9%90%B5%E8%A1%8C%E9%A7%9B%E5%8D%80%E3%80%80%E4%B8%AD%E5%9C%8B%E9%9D%92%E5%B9%B4%E8%A2%AB%E5%9A%B4%E5%8E%B2%E8%A8%93%E7%A4%BA%E3%80%80/) 無人機墮地鐵行駛區 中國青年被嚴厲訓示 (https://www.dronesplayer.com/75635/%E7%84%A1%E4%BA%BA%E6%A9%9F%E5%A2%AE%E5%9C%B0%E9%90%B5%E8%A1%8C%E9%A7%9B%E5%8D%80%E3%80%80%E4

飛行器機架 (Flying Platform) 的大小，取決於槳翼的尺寸及電機 (摩打 / 馬達) 的體積：槳翼愈長，摩打愈大，機架大小便會隨之而增加。機架一般採用輕物料製造為主，以減輕無人機的負載量 (Payload)。

2. 飛行控制系統

飛行控制系統 (Flight Control System) 簡稱「飛控」，一般會內置控制器、陀螺儀、加速度計和氣壓計等傳感器。無人機便是依靠這些傳感器來穩定機體，再配合GPS及氣壓計數據，便可把無人機鎖定在指定的位置及高度。

3. 推進系統

無人機的推動系統 (Propulsion System) 主要由槳翼和摩打所組成。當槳翼旋轉時，便可以產生反作用力來帶動機體飛行。系統內設有電調控制器 (Electronic Speed Control)，用於調節摩打的轉速。

4. 遙控器

這是指「Remote Controller」或「Ground Station」，讓航拍玩家透過遠程控制技術來操控無人機的飛行動作。

5. 遙控接收器

主要作用是讓飛行器接收由遙控器發出的遙控指令訊號。4 軸無人機起碼要有 4 條頻道來傳送訊號，以便分別控制前後左右 4 組旋軸和摩打。

6. 雲台相機

目前無人機所用的航拍相機，除無人機廠商預設於飛行器上的相機外，有部分機型容許用戶自行裝配第三方相機 (/?p=6304)，例如 GoPro Hero 4運動相機 (/tag/gopro-hero4/)或 Canon EOS 5D 系列單眼相機 (/tag/canon-eos-5d-mark-iv/)，惟近年亦有廠商提倡採用 M4/3 無反單眼 (/tag/無反相機/) (如：Panasonic LUMIX GH4) 作航拍用途。

航拍相機主要透過雲台 (Gimbal) 裝設於飛行器之上。雲台可說是整個航拍系統中最重要部件，航拍影片的畫面是否穩定，便全要看雲台的表現如何。雲台一般會內置有兩組電機，分別負責雲台的上下擺動和左右搖動，讓架設在雲台上的攝影機可維持旋轉軸不變，令航拍畫面不會因飛行器震動而晃動起來。

【延伸閱讀：穩定航拍影像關鍵：雲台大解構 (/?p=4362)】

無人機飛行原理

%b8%ad%e5%9c%8b%e9%9d%92%e5%b9%84%e8%a2%ab%e5%9a%b4%e5%8e%b2%e8%a8%93%e7%a4%ba%e3%80%80/) spec/?utm_source=mobile&utm_medium=insite&utm_campaign=navbar)



/%e4%b8%80%e7%ae%ad%e9%9b%99%e9%9b%95%ef%bc%81%e3%80%80%e7%be%8e%e5%81%b5%e6%b8%ac%e5%99%a8%e5%90%8c%e6%ad%a5%e5%ae%9a%e4%bd%8d%e7%84%a1%e4%ba%ba%e6%a9%9f%e7%8a%e6%8e%a7%e5%88%b6%e5%93%a1%e3%80%80/) 一箭雙雕！ 美偵測器同步定位無人機及控制員 成執法救星 (https://www.dronesplayer.com/75619/%e4%b8%80%e7%ae%ad%e9%9b%99%e9%9b%95%ef%bc%81%e3%80%80%e7%be%8e%e5%81%b5%e6%b8%ac%e5%99%a8%e5%90%8c%e6%ad%a5%e5%ae%9a%e4%bd%8d%e7%84%a1%e4%ba%ba%e6%a9%9f%e7%8a%e6%8e%a7%e5%88%b6%e5%93%a1%e3%80%80/)



(https://www.dronesplayer.com/75726/%e7%84%a1%e4%ba%ba%e6%a9%9f%e9%95%b7%e5%87%ba%e6%89%8b%e4%be%86%e3%80%80%e4%bc%b8%e7%b8%ae%e6%a9%9f%e6%a2%b0%e8%87%82%e5%8f%af%e8%83%bd%e5%af%a6%e7%94%a8%e4%bd%86%e5%a4%96%e8%a7%80%e9%95%b7%e9%80%99/)

Figure 1 illustrates four network topologies (A, B, C, D) showing different drone movement strategies. Each topology consists of a central node connected to four peripheral nodes. Arrows indicate movement directions.

- Topology A:** Mobile source, campaign=navbar. The central node is connected to four peripheral nodes. Arrows indicate movement directions: a green arrow from the top-left peripheral node to the central node, a blue arrow from the central node to the top-right peripheral node, a green arrow from the bottom-right peripheral node to the central node, and a red arrow from the central node to the bottom-left peripheral node.
- Topology B:** Mobile source, campaign=navbar. The central node is connected to four peripheral nodes. Arrows indicate movement directions: a green arrow from the top-left peripheral node to the central node, a blue arrow from the central node to the top-right peripheral node, a green arrow from the bottom-right peripheral node to the central node, and a red arrow from the central node to the bottom-left peripheral node.
- Topology C:** Mobile source, campaign=navbar. The central node is connected to four peripheral nodes. Arrows indicate movement directions: a green arrow from the top-left peripheral node to the central node, a blue arrow from the central node to the top-right peripheral node, a green arrow from the bottom-right peripheral node to the central node, and a red arrow from the central node to the bottom-left peripheral node.
- Topology D:** Mobile source, campaign=navbar. The central node is connected to four peripheral nodes. Arrows indicate movement directions: a green arrow from the top-left peripheral node to the central node, a blue arrow from the central node to the top-right peripheral node, a green arrow from the bottom-right peripheral node to the central node, and a red arrow from the central node to the bottom-left peripheral node.

【延伸閱讀：9大無人機基礎飛行動作傳授 (/?p=8100)】

1. DJI

(https://www.dronesplayer.com/75726/%e7884f%a1%e84ba%ba%ce%99%93%e9%95%b7%e5%87%ba%e6%89%8b%e4%be%86%e3%80%80%e4%bc%b8%e7%b8%ae%e6%a9%9f%e6%a2%b0%e8%87%82%e5%8f%af%e8%83%bd%e5%af%a6%e7%94%a8%e4%bd%86%e5%a4%96%e8%a7%80%e9%95%b7%e9%80%99/)



(https://www.dronesplayer.com/75526/%e8%88%aa%e6%8b%8d%e7%81%b0%e9%af%a8%e7%be%a4%e5%8c%97%e9%81%b3%e3%80%80%e6%b5%b7%e8%b1%9a%e3%80%8c%e5%85%ab%e5%8d%a6%e3%80%8d%e5%9c%8d%e8%a7%80%e3%80%80%e5%ba%a7%e9%a0%ad%e9%af%a8%e5%bc%b5%e5%b7%a8/)



(<https://www.dronesplayer.com/75541/%e8%8b%b1%e5%9c%8b%e8%84%a4%e6%ad%90%e6%88%96%e4%bb%a4%e8%8b%b1%e6%b3%95%e7%84>

大疆創新 (DJI) (/tag/dji/) 創辦人汪滔 (/tag/汪滔/) 雖是中國大陸人，但他原來曾於香港科技大學攻讀碩士課程，航拍無人機正是其研究項目。由於 DJI 產品較早推出市場的關係，所以其市場占有率亦最高，目前佔有約 70% 的市場份額。

其主打產品 Phantom 系列迄今已推出第 4 代機型 (DJI Phantom 4 (/drones/dji-phantom-4/))，但第 3 代機型仍有在市場發售，共分為 Standard (/drones/dji-phantom-3-standard/)、Advanced (/drones/dji-phantom-3-advanced/)、Professional (/drones/dji-phantom-3-professional/)、4K (/drones/dji-phantom-3-4k/) 四款型號。

【延伸閱讀：DJI Phantom 4 深度評測 (/p=17003)】



DJI Phantom 4 及原裝手提箱

2. Parrot

來自法國的 Parrot 派諾特 (/brand/parrot/)，以入門級無人機作主打，產品外形趣緻，功能設計亦多樣化，既有水空兩用機，又有陸空無人機。Parrot 無人機比較適合於室內或風力不大的環境飛行。其主打產品為 Bebop Drone 系列，目前已推出第 2 次機型 Bebop 2。

【延伸閱讀：Parrot Bebop 2 航拍機評測 (/p=11525)】

spec/?

campaign=navbar)

英國脫歐或令英法無人戰機難產 英方表明繼續合作

(https://www.dronesplayer.com/75541/%e8%b1%e5%9c%8b%e8%84%ab%e6%ad%90%e6%88%96%e4%bb%a4%e8%8b%b1%e6%b3%95%e7%84%a1%e4%ba%ba%e6%88%b0%e6%a9%9f%e9%9b%a3%e7%94%a2%e3%80%80%e8%8b%b1%e6%96%b9%e8%a1%a8%e6%98%8e%e7%b9%bc%e7%ba%8c%e5%90%88/)

無人機熱門新品









Parrot Bebop 2 雖則外表圓潤，但飛起來卻相當靈活。

3. XIRO

XIRO 零度 (/brand/xiro/)乃中國商用無人機廠商零度智控 (ZEROTECH) (/tag/零度智控/)和電腦配件廠商雷柏 (Rapoo) 合資創立的新品牌 (/pc-業務萎縮-雷柏想靠-xiro-無人機反彈食糊/)。其 Xplorer 系列的產品定位接近 DJI Phantom 3 系列。廠方在 CES 2016 (/tag/ces-2016/) 上宣布，會推出後繼機型 Xplorer 2 (/p=11384)。

【延伸閱讀：XIRO Xplorer V 航拍實測 (/p=2281)】

 <p>review/?utm_source=mobile&utm_medium=insite&utm_campaign=navbar)</p> <p>DJI Mavic Air</p> <p>(https://www.dronesplayer.com/drone/s/dji-mavic-air/)</p>	 <p>spec/?utm_source=mobile&utm_medium=insite&utm_campaign=navbar)</p> <p>DJI Phantom 4 Pro Obsidian 暗夜版</p> <p>(https://www.dronesplayer.com/drone/s/dji-phantom-4-pro-obsidian-%e6%9b%9c%e7%9f%b3%e9%bb%91/)</p>
 <p>DJI Mavic Pro Platinum 鉑金版</p> <p>(https://www.dronesplayer.com/drone/s/dji-mavic-pro-platinum-%e9%89%91%e9%87%91%e7%89%88/)</p>	 <p>Zerotech Dobby</p> <p>(https://www.dronesplayer.com/drone/s/zerotech-dobby/)</p>
 <p>DJI Phantom 4 Advanced</p> <p>(https://www.dronesplayer.com/drone/s/dji-phantom-4-advanced/)</p>	 <p>JXD 515W</p> <p>(https://www.dronesplayer.com/drone/s/jxd-515w/)</p>

Drone 熱門問答

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drone/?



XIRO Explorer V 機身外形頗具科幻感，跟 Rapoo 主導產品設計不無關係。

剛剛跟 Intel 結盟的 Yuneec 昊翔 (/intel-夥-yuneec-組航拍者聯盟-攜手研發無人機/)，其主打產品 Typhoon Q500 (/drone/yuneec-typhoon-q500-2/) 定位跟 DJI Phantom 3 接近，惟因較遲推出市場，所以功能賣點雖多，但品牌認知度卻比 DJI 為低。目前最新型號為 6 軸結構的 Typhoon H，產品定位跟 DJI Phantom 4 接近。

【延伸閱讀：Yuneec Typhoon H vs DJI Phantom 4 規格評比 (/p=21715)】

spec/?

DJI 下一次的產品發佈大約在幾月份
(<https://www.dronesplayer.com/question/dji->
[%e4%b8%8b%e4%b8%80%e6%ac%a1%e7%9a%84%e7%94%a2%e5%93%81%e7%99%bc%e4%bd%88%e5%a4%a7%e7%b4%84%e5%9c%a8%e5%b9%be%e6%9c%88%e4%bb%bd/](https://www.dronesplayer.com/question/dji-%e4%b8%8b%e4%b8%80%e6%ac%a1%e7%9a%84%e7%94%a2%e5%93%81%e7%99%bc%e4%bd%88%e5%a4%a7%e7%b4%84%e5%9c%a8%e5%b9%be%e6%9c%88%e4%bb%bd/))

App註冊問題及電池充電
(<https://www.dronesplayer.com/question/app%E8%A8%BB%E5%86%8A%E5%95%8F%E9%A1%8C%E5%8F%8A%E9%9B%BB%E6%B1%A0%E5%85%85%E9%9B%BB>) 價格 (<https://www.dronesplayer.com/question/app%E8%A8%BB%E5%86%8A%E5%95%8F%E9%A1%8C%E5%8F%8A%E9%9B%BB%E6%B1%A0%E5%85%85%E9%9B%BB>)



spec/?

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insite&utm_campaign=navbar)
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DronesPlayer 電子報訂閱

我們只會發最精心挑選的無人機資訊給您！



請在此輸入電郵地址

訂閱！

Typhoon H 乃 Yuneec 旗下最新型號的無人機。

(/facebook) (/twitter) (/google_plus) (/wechat) (/line)

(/ #whatsapp) 讚好 230

標籤:  Lock Sir 航拍 (<https://www.dronesplayer.com/tag/lock-sir-%e8%88%aa%e6%8b%8d/>)  空拍機教學 (<https://www.dronesplayer.com/tag/%e7%a9%ba%e6%8b%8d%e6%a9%9f%e6%95%99%e5%ad%b8/>)

想第一時間收到無人機的最新情報？立即加入我們的Facebook粉絲團 (<https://www.facebook.com/DronesPlayer>)吧！

 讚好 1.2 萬人對此讚好。趕快[註冊](#)來看看朋友對哪些內容讚好。

想要看更多像這樣的無人機新聞？訂閱我們的電子報！

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訂閱！

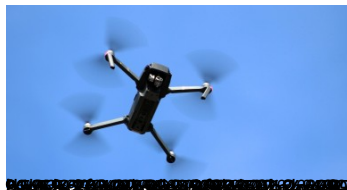
作者：Lock Sir

(<https://www.dronesplayer.com/author/lock/>)

人稱 Lock Sir 的周亦樂是香港航拍製作公司掌舵人兼航拍課程講師，迷上航拍後，愛用全新的高空視野來看世界，亦喜歡跟其他人分享航拍視野帶來的新觀感。

不要錯過這些相關新聞！

utm_source=mobile&utm_medium=insite&utm_campaign=navbar)	utm_source=mobile&utm_medium=insite&utm_campaign=navbar)	drone/?	review/?	spec/?
utm_source=mobile&utm_medium=insite&utm_campaign=navbar)	utm_source=mobile&utm_medium=insite&utm_campaign=navbar)	utm_source=mobile&utm_medium=insite&utm_campaign=navbar)	utm_source=mobile&utm_medium=insite&utm_campaign=navbar)	utm_source=mobile&utm_medium=insite&utm_campaign=navbar)
3 個不講不知的無人機技術瓶頸 續航時間是最難以攻克的關卡	7 台 GoPro 相機 + 3 軸增穩雲台 實現 360 度 4K VR 航拍方案	搶救航拍影像細節！HDR 高動態範圍編修小秘技 (https://www.dronesplayer.com/)		



10個不會讓無人機墜毀的安全飛行訣竅 #9提醒你需看天色行事



5 個空拍玩家不可忽略的「圖傳系統小知識」 #5 是引致炸機的關鍵



DJI Mavic Pro 全自動飛行實現！Litchi APP 航道規劃 5 大攻略心得

2則回應

排序方式：熱門



新增回應……



Billy Yuen · 香港

看圖 A 所示，前後兩組轉左摩打的轉力 (綠色箭號) 大於轉右摩打的轉力 (啡色箭號)，無人機機體便會右轉 (啡色箭號)。
但看文字，"右轉飛行：前後兩組轉右摩打的轉力大於轉左摩打轉力，即可令無人機機體便會右轉"，文字解釋和圖 A 所示不符。

讚好 · 回覆 · 1年



DronesPlayer

多謝閣下的指正。

DronesPlayer 編輯部跟 Lock Sir 商議後，已對「右轉飛行」部分加入更詳盡的解說，望可解閣下疑竇。

讚好 · 回覆 · 1年



蘇家德 · Creation Forces員工
Freefly Systems呢~~~


讚好 · 回覆 · 1年


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