

# S1-4 空拍影像紀錄的作法與應用

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**ICEET** in Taichung  
Wednesday, 24th May 2017

International Conference on E-learning and Educational Technology 2017

數位教學設計  
與課程研發

E-Teaching Design &  
Curriculum Research-Development



教育  
Innov

# ▶▶▶ 無人機的應用



玩具型



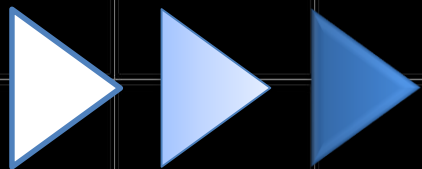
空拍用 dji p4p



商業運輸



軍事用途



要報告的不是空拍

而是空拍的故事



# ▶▶▶ 故事要從這裡說起





# ▶▶▶ 六年級孩子的一次感動行動

加昌國小三十周年校慶之"蛇"采飛"羊"表演 第二次預演空拍影片



結束全螢幕

▶ ▶ ▶ 7:49 / 9:16

HD

# ▶▶▶ 用一個響亮的名號





# ▶▶▶ 空拍高雄市濕地17處



# ▶▶▶ 莒光國小40周年校慶排字縮時攝影





# ▶▶▶ 南投中寮國小百年校慶





# 屏東霧台聯合動會





# ▶▶▶ 情定後勁溪千人健走





# ▶▶▶ 何爺爺跳跳屋





# ▶▶▶ 106年高雄市國小運動會開幕

《高雄空拍服務隊》106年高雄市國民小學運動會開幕活動



結束全螢幕

▶ 🔊 2:26 / 5:23



# ▶▶▶ 利用轉檔製作VR校園環境故事

實作



before vs after



水泥地 vs 綠地



製作虛擬實境介紹



學長姐 教導 學弟妹





▶▶▶ 製作空拍全景圖





# ▶▶▶ 製作空拍全景圖

The screenshot displays a drone flight planning application interface. At the top, a status bar shows 'WAYPOINT' with a satellite icon, 'N/A' with a camera icon, 'DISCONNECTED' in a red box, 'N/A' with a Wi-Fi icon, 'N/A' with a video icon, and 'N/A' with a battery icon. A gear icon for settings is on the far right. The main area is a satellite map of a baseball field with a yellow mission path connecting 10 numbered waypoints (1-10) marked with purple pins. Each waypoint is accompanied by a cloud icon containing a number (e.g., 35, 24, 25, 27). On the left side, there are four control buttons: a zoom up/down button, a settings button, and a play button. On the right side, there are several control icons: a location pin with a plus sign, an eraser, a delete 'X' button, a target icon, a brightness slider, a red stop button, and a settings icon. At the bottom, a black bar displays 'Distance 696m | Time 1min'. Below this, there are three status indicators: '0.0m' with an altitude icon, '0.0m' with a distance icon, and '0km/h' with a speed icon. The Google logo is visible in the bottom left corner.

WAYPOINT N/A DISCONNECTED N/A N/A

Distance 696m | Time 1min

0.0m 0.0m 0km/h



# ▶▶▶ 製作空拍全景圖

20160710頭前溪河濱公園生態池.jpg @ 12.5% (RGB/8) \* x



顏色 色票

調整 樣式

增加調整

圖層 色版 路徑

種類

正常 不透明度: 100%

鎖定: 填充: 100%

背景



# 上傳空拍全景圖

高雄空拍服務隊

高雄空拍服務隊



鷓蜚

街景服務 - 9月 2016



商家資訊提供者: Kingway

圖像拍攝日期: 9月 2016

圖片可能受版權保護



# ▶▶▶ 微電影空拍畫面應用說明

實作



# ▶▶▶ 微電影空拍畫面應用說明

擷取    **編輯**    輸出檔案    製作光碟    APP

媒體內容    搜尋媒體庫

1212.mp4    2121.mp4    ballon.jpg    extreme sports 01.jp...    extreme sports 02.jp...

extreme sports 03.jp...    extreme sports 04.jp...    Kite Surfing.wmv    messageImage\_148...    motorcycles.mpo

00:00:00:00    00:00:02:15    00:00:05:00    00:00:07:15    00:00:10:00    00:00:12:15    00:00:15:00    00:00:17:15    00:00:20:00    00:00:22:15    00:00:25:00    00:00:27:15    00:00:30:00

2121    messageImage\_1483951064564    messageImage\_1

The screenshot displays a video editing software interface. At the top, there are tabs for '擷取' (Capture), '編輯' (Edit), '輸出檔案' (Export), and '製作光碟' (Burn). The '編輯' tab is active. Below the tabs is a '媒體內容' (Media Content) section with a search bar and various media thumbnails. The thumbnails include a portrait, a classroom scene with a character, a person with balloons, extreme sports clips, a kite surfer, a logo for '戴爾的學習月學教室', and motorcycles. To the right is a 'Preview' window showing a classroom scene with a character overlaid. Below the preview is a control bar with playback buttons and a '3D' option. At the bottom is a 'Timeline' with a time scale from 00:00:00:00 to 00:00:30:00. The timeline shows a video track with a repeating classroom scene and an audio track with a waveform. Two message image assets are visible at the bottom of the timeline.



# ▶▶▶ 2D動畫製作介紹

高雄市那瑪夏區民權國小空拍介紹



最有特色的就是看起來像把大傘的圖書館



0:13 / 3:37



故事還沒有結束，待續...



# S1-4 The practice and application of Aerial photography

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# ▶▶▶ The application of Unmanned Aerial Vehicle



玩具型



空拍用 dji p4p

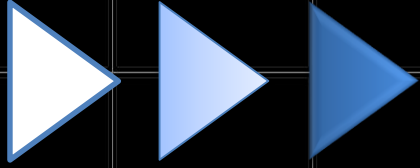


商業運輸



軍事用途





The key point is not  
about Aerial Photography  
But the stories behind it.

▶▶▶ Here it goes...





▶▶▶ A touching performance of the six graders.

加昌國小三十周年校慶之"蛇"采飛"羊"表演 第二次預演空拍影片



# ▶▶▶ A cool team name





# ▶▶▶ The Aerial Photography of 17 wetlands in Kaohsiung



▶▶▶ The Time-lapse photography on 40th Anniversary Sports Day of Juquang elementary school





# ▶▶▶ The Centennial Anniversary of Zhongliao Elementary School in Nantou





# ▶▶▶ Joint Sports Day in Wutai, Pingtung





# ▶▶▶ Hiking by the Houjin Creek





# ▶▶▶ Grandpa Ho' s jumping house





# ▶▶▶ The Opening Ceremony of Kaohsiung Elementary Sports meeting

《高雄空拍服務隊》106年高雄市國民小學運動會開幕活動



結束全螢幕

2:26 / 5:23



# ▶▶▶ Telling school stories with VR

實作



before vs after



水泥地 vs 綠地



製作虛擬實境介紹



學長姐 教導 學弟妹





# ▶▶▶ Making panorama with Aerial Photography





# ▶▶▶ Making Panorama of Aerial Photography

The screenshot displays a drone flight planning application interface. At the top, a status bar shows 'WAYPOINT' with a satellite icon, 'N/A' with a camera icon, 'DISCONNECTED' in a red box, 'N/A' with a Wi-Fi icon, 'N/A' with a video icon, and 'N/A' with a battery icon. The main area shows an aerial map with a yellow flight path connecting 10 numbered waypoints (1-10) marked with purple pins. Each waypoint has a cloud icon with a number (e.g., 35, 24, 25, 27) above it. The path starts at waypoint 1, goes to 2, 3, 4, 5, 6, 7, 8, 9, and ends at 10. On the left side, there are four vertical buttons: a zoom up/down button, a zoom in/out button, a settings gear button, and a play button. On the right side, there are several circular icons: a location pin with a plus sign, a pencil, a close button (X), a target icon, a moon icon, a red circle with a white center, and a settings icon. At the bottom left, a black box displays 'Distance 696m | Time 1min'. Below that, another black box shows '0.0m' with an altitude icon, '0.0m' with a distance icon, and '0km/h' with a speed icon. The Google logo is visible in the bottom left corner.

WAYPOINT N/A DISCONNECTED N/A N/A

Distance 696m | Time 1min

0.0m 0.0m 0km/h



# ▶▶▶ Making Panorama of Aerial Photography

20160710頭前溪河濱公園生態池.jpg @ 12.5% (RGB/8) \* x



Color and adjustment panels from a software interface.

顏色 色票

調整 樣式

增加調整

圖層 色版 路徑

種類

正常 不透明度: 100%

鎖定: 填充: 100%

背景

# ▶▶▶ uploading Panorama of Aerial Photography

高雄空拍服務隊

高雄空拍服務隊



鷓蜚

街景服務 - 9月 2016





# ▶▶▶ Mini Movie and Aerial Photography

實作



# ▶▶▶ Mini Movie and Aerial Photography

擷取 編輯 輸出檔案 製作光碟 APP

媒體內容 搜尋媒體庫

1212.mp4 2121.mp4 ballon.jpg extreme sports 01.jp... extreme sports 02.jp...  
extreme sports 03.jp... extreme sports 04.jp... Kite Surfing.wmv messageImage\_148... motorcycles.mpo

00:00:00:00 00:00:02:15 00:00:05:00 00:00:07:15 00:00:10:00 00:00:12:15 00:00:15:00 00:00:17:15 00:00:20:00 00:00:22:15 00:00:25:00 00:00:27:15 00:00:30:00

2121 messageImage\_1483951064564 messageImage\_1



# ▶▶▶ The Introduction of 2D Animation

高雄市那瑪夏區民權國小空拍介紹



最有特色的就是看起來像把大傘的圖書館



0:13 / 3:37

▶▶▶ To be continued...