PilotGaea 藏識科技 Technologies

# Ground Control Station (GCS)

## Integration of UAV and GIS


- **SUPPORT** for more layer formats and types
- **PLAN** better routes and waypoint tasks
- **ANALYZE** more detailed flight logs
- **MONITOR** real-time flight status

### Mission Planning

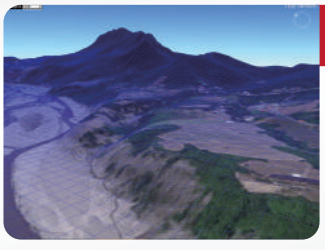
The GCS facilitates safe UAV flights in mountainous areas and high-density urban zones.

### Realistic Map Scene

Users can gain a more accurate understanding of the actual situation through the simulation screen.

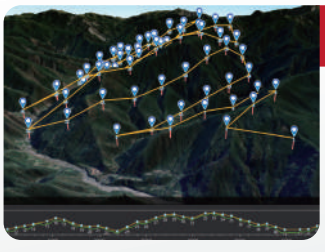
### Path Planning – Algorithms

Integrating the information of buildings and terrain, and UAV specifications, path planning is no longer the boring point-to-point, but the agilely flying through the urban jungle.



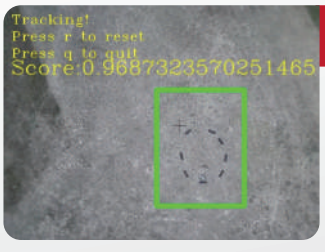
### Various Display Type

Users can choose between satellite photos, frames, frame lines, or slope coloring types of images as the background.



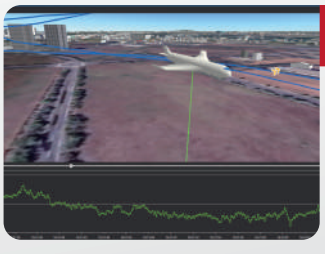
### Circuit Cruise Planning

By utilizing the terrain data from the 3D map platform, routes can be planned to reduce the climbing and then lower the energy consumption.



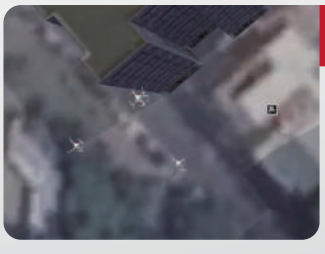

### Image-aid Navigation Landing

UAVs can navigate using image-based methods, which is particularly valuable in the logistics industry for object delivery. Advanced landing capabilities utilizing AI technology for precise and reliable landing operations.



### Flight Log Review

Through 3D image demonstrations, users can visually analyze the flight attitude of the drone and interpret the flight results effectively.



### Multi-UAVs Joint Operation

Back-end server integration and data sharing enable coordinated operations among multiple UAVs, incorporating radar or Internet of Things technologies.

### Realtime Image Overlay

Combine the real-time images and the flight data of the UAV, make flight much more vivid.

| System Requirements | |
|---|---|
| Operating System | Windows 10/11 (64 bit) |
| CPU | Intel Core i5-9500 or higher |
| Memory | 8 GB RAM |
| GPU | GeForce GTX 1060 or higher |
| Disk space | 15 GB |

Contact us tech.sales@pilotgaea.com.tw (07)554-8288 6F., No. 262, Wenxin Rd., Gushan Dist., Kaohsiung City 804615 , Taiwan (R.O.C.)