

# DJI Matrice 100

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kits Available: 4 sets

Fully customisable and programmable, the Matrice 100 is a solid choice for drone technology developers. It features dual parallel CAN ports and UART ports for additional components and the Zenmuse X3 camera and gimbal able to shoot 4K and HD videos and 12MP stills. Customised programmes and functionality can be added using the DJI SDKs, opening up a world of possibilities.



## Factsheet

### **Purpose:**

Up to 1 kilo payload carrying multirotor

### **Kit contents**

- **Matrice 100**
  - Up to 35 mins flight time
  - Max payload 1.2kg
- **Zenmuse X3 camera and gimbal**
  - 12.4MP camera, up to 4K and HD videos
- **Remote Controller**
- **2 batteries**
- **Charger**
- **Transport case**



### **Required Skills and Qualifications**

- Permission for commercial operations (PFCO) for multirotor wing UAV
- Full Liability Insurance & aviation liability cover.

### **Additional considerations**

- The user will require an iPad, iPhone or Android device with a USB cable to connect to the remote controller.
- DJI Go will need to be installed on the device, available on the app store.

### **Cost**

Dependant on duration of hire, support required & options selected.

# DJI Mavic 2 Pro

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kits Available: 2 sets

The Mavic 2 Pro was built for ease-of-use and fantastic image capture, with a 20MP Hasselblad L1D-20c camera with 4K 10-bit HDR support. In-built capabilities include ActiveTrack 2.0 object tracking with automatic obstacle avoidance and 1080p videos can be transmitted from up to 10km away and saved to your device.



## Factsheet

### **Purpose:**

Photogrammetry for 3D and ortho-mosaic and detailed visual inspection

### **Kit contents**

- **A Mavic 2 Pro drone**
  - 20MP/4K Hasselblad camera
  - 31 mins flight time
  - Range: 18km
- **A Mavic 2 Pro remote controller**
- **3 batteries**
- **Charging Hub**
- **Charger**
- **Car charger**
- **Transport case**



### **Required Skills and Qualifications**

- Permission for commercial operations (PFCO) for multirotor wing UAV
- Full Liability Insurance & aviation liability cover.

### **Additional considerations**

- The user will require an iPad, iPhone or Android device for the remote controller.
- DJI Go4 will need to be installed on the device, available on the app store.
- The user will require an SD card Class U3 or above

### **Cost**

Dependant on duration of hire, support required & options selected.

# DJI Goggles Racing Edition

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kits Available: 1 set

For use with the DJI Mavic 2 Pro. With the DJI FPV goggles, you can get a bird's eye view of the world from the drone while staying perfectly safe on ground.



## Factsheet

### **Purpose:**

HD video goggles for First Person View on the Mavic 2 Pro

### **Kit contents**

- DJI Goggles
- Charger
- Charging Cable



### **Required Skills and Qualifications**

- N/A

### **Additional considerations**

- The user will require an iPad, iPhone or Android device for the remote controller.
- DJI Go4 will need to be installed on the device, available on the app store.
- The user will require an SD card Class U3 or above

### **Cost**

Dependant on duration of hire, support required & options selected.

# DJI Mavic Mini

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kits Available: 1 set

Weighing just 249g, this drone is lightweight, extremely compact and easy to use. With a 12MP camera able to take 2.7K video, HD transmission up to 4km, and up to 30 minutes flight time, the Mavic Mini is perfect for visual inspection and recording on the go.



## Factsheet

### **Purpose:**

Visual Inspection, photos/videos

### **Kit contents**

- **A Mavic mini drone**
  - 12MP camera up to 2.7K video
- **Remote Control**
- **3 batteries**
- **Charging hub**
- **Connectors and spares**
- **Soft carry case**



### **Required Skills and Qualifications**

- Permission for commercial operations (PFCO) for multirotor wing UAV
- Full Liability Insurance & aviation liability cover.

### **Additional considerations**

- The user will require an iPad, iPhone or Android device for the remote controller.
- DJI Fly will need to be installed on the device, available on the app store.
- The user will require an SD card Class U3 or above

### **Cost**

Dependant on duration of hire, support required & options selected.

# DJI Matrice 600 Pro

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kit Available: 1 set

The Matrice 600 Pro is perfect for industrial applications. Its modular design allows easy customisation and mounting of additional modules. Customised programmes and functionality can be added using the DJI SDKs, opening up a world of possibilities.



## Factsheet

### **Purpose:**

Up to 6 kilo payload carrying multirotor

### **Kit contents**

- **Matrice 600 Pro**
  - Up to 32 mins depending on payload
  - Max payload 5kg
- **Remote Controller**
- **12 batteries (2 flight sets)**
- **Charger**



### **Required Skills and Qualifications**

- Permission for commercial operations (PFCO) for multirotor wing UAV
- Demonstration of appropriate experience with similar types/weights of multirotor drone – Recent flight log and description of experience.
- Full Liability Insurance & aviation liability cover.

### **Additional considerations**

- The user will require an iPad, iPhone or Android device with a USB cable to connect to the remote controller.
- DJI Go will need to be installed on the device, available on the app store.

### **Cost**

Dependant on duration of hire, support required & options selected.



# WingtraOne

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kits Available: 1 set

Optimised for mapping and surveying, the Wingtra One's phenomenal accuracy and speed combined with robust engineering and ease-of-use make for efficient, stress-free survey missions.



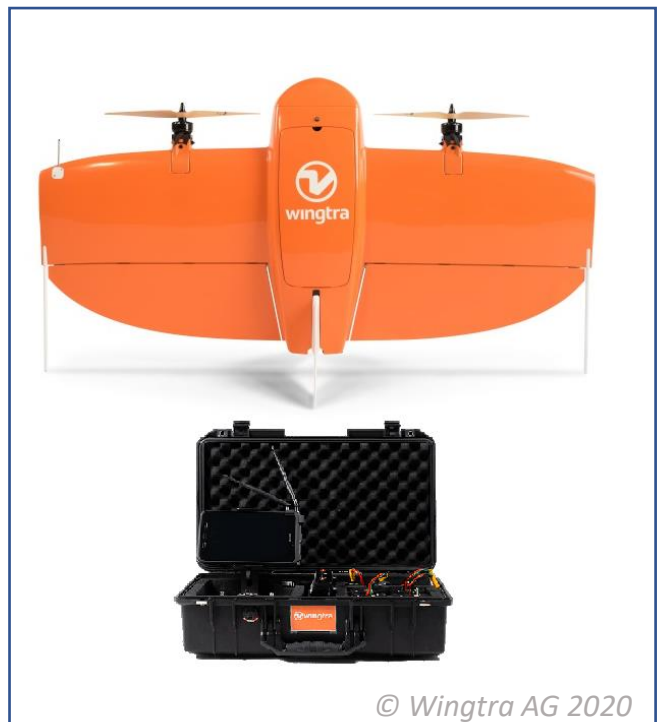
## Factsheet

### **Purpose:**

Photogrammetry for 3D and ortho-mosaic

### **Kit contents**

- **WingtraOne and Camera (pre-installed)**
  - *Up to 59 minutes*
  - *Sony 42mp full frame camera. (down to 0.7cm/px)*
- **Ground station - tablet**
- **Batteries**
  - *Two pairs*
- **Charger and discharger**
- **Transport cases**



### **Required Skills and Qualifications**

- Permission for Commercial Operations (PFCO) for fixed wing UAV
- Demonstrate currency through logs and details of at least 3 fixed wing flights conducted in the last 3 months.
- Full Liability Insurance & aviation liability cover.

### **Additional considerations**

- Mission planning requires an internet connection
- Log no. of flights and duration of flight after use
- The user is required to have their own high-speed SD card

### **Cost**

Dependant on duration of hire, support required & options selected.

# Baby Shark VTOL Plane

Facility: University of Bristol

Contact: Sam Hoh (nnuf-hr@bristol.ac.uk)

Kits Available: 1 set

Used for survey and mapping of large areas, the Baby Shark has a maximum flight of 2.5 hours and a maximum payload of 1.5kg to 3kg, perfect for mounting on additional sensors and components as required.



## Factsheet

### **Purpose:**

Camera or payload carrying

### **Kit contents**

- **Baby Shark**
  - *Max 2.5hr flight time*
  - *1.5-3kg payload*
- **Optional Seeker-10 V2 HD camera**
  - *10x Optical zoom, 1080p HD video recording*
- **Radio Controller**
- **Telemetry datalink**
- **Charger**
- **2 sets batteries**
- **Accessories**
- **Transport cases**



### **Required Skills and Qualifications**

- Permission for Commercial Operations (PFCO) for fixed wing UAV
- \*Significant previous experience of flying a fixed wing UAV
- \*Significant previous experience of operating Arduplane and Mission Planner.
- Full Liability Insurance & aviation liability cover.

### **Additional considerations**

- The user will require a Windows based laptop or tablet running Mission Planner
- Flexibility for sensor integration
- Awareness of requirements for the storage and transportation of the lithium polymer pouch batteries.

### **Cost**

Dependant on duration of hire, support required & options selected.