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# Aion Robotics

## R1 Rover

<https://drive.google.com/drive/folders/1UBtwsaYdh-tAuM2Nxa8K3IujrxcZdLEH?usp=sharing>

R1 rover is a ground based vehicle.

A picture containing text, transport, gear

Description automatically generated

The R1 rover comes in two types shown in the table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Package** | **Configuration** | **Hardware** | **Software** |
| ArduPilot | AutoPilot Control | Pixhawk 2.1 | ArduPilot |
| ArduROS | Hybrid Control | * Pixhawk 2.1 * Jetson TX2 | * ArduPilot * ROS |

The ArduROS package uses Linux Ubuntu, this package is meant for users who want to program and have more configuration options with their rover.

ArduPilot allows for the use of a ground control station such as mission planner:

Documentation - <https://ardupilot.org/planner/>

Download - <https://github-docs.readthedocs.io/en/latest/ardupilot-autopilot-setup.html>

Controlled via RC system or with mission planner.

The R1 rover can be purchased with a bundle including a Wi-Fi telemetry kit, the network password for this is “aionrobotics”.

<https://github-docs.readthedocs.io/en/latest/ardupilot-wireless-telemetry-connection.html>

R1 documentation - <https://github-docs.readthedocs.io/en/latest/r1-ugv.html>

# ArduPilot

## Drone

https://drive.google.com/drive/folders/1G5TCw9jjJIQQNsoP9qvl7u07lqiocLpl?usp=sharing

# DJI

DJI currently have 14 consumer grade UAVs available to the public as of 11/02/22. DJI also offer specialized UAVs for other purposes such as public safety inspections and aerial surveying.

All UAVs contain a camera.

Most do not specify anything to do with GPS.

UAVs come with a controller that a mobile is inserted into. The mobile can run software provided by DJI to allow you to see the cameras perspective. There should be important data that is transmitted from UAV to mobile and vise versa.

DJI offers a wide range of software and applications for their UAVs.

They also offer a tool to decrypt encrypted SD cards:

<https://www.dji.com/uk/downloads/softwares/dji-decrypt-tool>

Most UAV manuals specify there is a return to home feature indicating that GPS coordinates are stored on the UAVs.

Software has been created to analyze the .DAT log files produced by many of DJIs drones:

CsvView/DatCon - <https://datfile.net/>

DROP - <https://github.com/unhcfreg/DROP>

DatCon is not very intuitive and outputs a csv that doesn’t make much sense.

DROP is specifically designed for the Phantom 3 UAV.

## Agras MG 1s

<https://drive.google.com/drive/folders/1hOPz8rApPXlepXq7KdaFw_77tLWx8xeL?usp=sharing>

## Inspire 1

<https://drive.google.com/drive/folders/1gH9IzwXsT5wPTX9lge6rbUNEfqz4ykIo?usp=sharing>

## Inspire 2

<https://drive.google.com/drive/folders/1JevrJm5teq_sNo7cA9wIEV5wKKW63q59?usp=sharing>

## Matrice 210

<https://drive.google.com/drive/folders/11SQsxqGgGtSZgr-DGRfJ_xH43aHYJoSP?usp=sharing>

## Matrice 600

<https://drive.google.com/drive/folders/1qDgl9ecAjJrvLAVUPwgdNaU-pmaTfu9Z?usp=sharing>

## Mavic 2

<https://drive.google.com/drive/folders/1ISuWCl7t8MRRPVO5hohp_LSgKSZcm-di?usp=sharing>

## Mavic 2 Enterprise

<https://drive.google.com/drive/folders/132E-jMeUJZf1APMkdLnh3M-h4BCxxwXK?usp=sharing>

## Mavic Air

<https://drive.google.com/drive/folders/1wcKvRqOTgK-uC3HKbLGfwV6LlMxmlJCA?usp=sharing>

## Mavic Pro

<https://drive.google.com/drive/folders/1wHgYh9LTjcy2t0VJJ6SZv5eaWpob3C-m?usp=sharing>

## Phantom 3

<https://drive.google.com/drive/folders/1Y5ILJsGKrHapkuLi7oVWiZOWnbED-KQW?usp=sharing>

## Phantom 4

<https://drive.google.com/drive/folders/1GpNyRTRrh-g6VVKnuoieqTKaZtSfRBsl?usp=sharing>

## Phantom 4 Pro V2

<https://drive.google.com/drive/folders/1fNq7G8adjDeFX1nqXp6Iq5k98avC5rZn?usp=sharing>

## S1000+

<https://drive.google.com/drive/folders/1R5UzZTdun41tv0Qqq6A8LznC0K2Fq-Sc?usp=sharing>

## Spark

<https://drive.google.com/drive/folders/1wDV7SQT3GeyquilMUkjfItSBlPnX2D8a?usp=sharing>

# Intel

## Falcon 8+

<https://drive.google.com/drive/folders/1lV1W-M5zFSL0OvRbErR9kEQfSl1VLhFD?usp=sharing>

Discontinued, Intel offers very little information on the product.

They don’t seem to have any manuals or further information apart from the specifications and downloads available here:

<https://www.intel.co.uk/content/www/uk/en/products/sku/98476/intel-falcon-8/specifications.html>

# Parrot

## Anafi

https://drive.google.com/drive/folders/1F-xJKkgZPX-uQC9ycPWYXr6pXxO3zkV2?usp=sharing

## Bebop 2 plus Sky Controller

https://drive.google.com/drive/folders/1uNq7XVkRG3yuKzaFRszQRauXtbSTcG67?usp=sharing

## Bluegrass

https://drive.google.com/drive/folders/1VsYXiMm9OAVnrh3SUehCCMct-VW8ncLd?usp=sharing

## Disco

https://drive.google.com/drive/folders/1hB3NIJZJx\_nQPRyofz8MiRb47wykIfJ4?usp=sharing

# Qysea

## FiFish P3

https://drive.google.com/drive/folders/10o9icfOMy7N9T6RAXyMfxTgVSicPo3j4?usp=sharing

# Ryze Robotics

## Tello

https://drive.google.com/drive/folders/1sYc2abzQuezyDvA5lj0OaRwBb6jAG8MO?usp=sharing

# SenseFly

## Albris

https://drive.google.com/drive/folders/1mYp9uqS43NN63FA\_2PCjkRWBZ8Cop1U1?usp=sharing

## eBee

https://drive.google.com/drive/folders/1eHyl4lrTizpy-pzpuLtw5YPf0fAcJVh-?usp=sharing

# Skydio

## R1

https://drive.google.com/drive/folders/15n4gh1lG4W5Yz4OLgHklsYrUIPXkZUaw?usp=sharing

# SkyViper

## 2450GPS

https://drive.google.com/drive/folders/1FUEANu1M7ukmJwOohPWGPq4DwToabNgX?usp=sharing

# Yuneec

## H520

https://drive.google.com/drive/folders/19m5qZ-VeTbNpEe55kzyUJIGLAtB2ZGc\_?usp=sharing

## Typhoon H

https://drive.google.com/drive/folders/13n7wcdcMXElpgEJRyS0ZOLO6BHB8YDHD?usp=sharing

## Typhoon Q500 4K

https://drive.google.com/drive/folders/1TlIntixL2gInvdoN7QhsaJTOLS9viYFv?usp=sharing