



DJI Mavic Pro Teardown

Detailed teardown and component identification with pictures.

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DJI Mavic Pro

INTRODUCTION

Detailed pictures of the teardown, structure, components, with labels. Due to duplicate content, this guide has been archived for historical purposes.

TOOLS:

- [Pro Tech Toolkit](#) (1)
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Step 1 — Unboxing & main features



DJI Mavic Pro

- Compact
- Foldable
- 4K Camera
- 3 Axis Gimbal
- GPS & GLONASS
- Up to 27 min flight time
- Up to 40 mph
- 4.7 mi (7 km) flight range
- 1080P/720P live feed
- 1.64 lbs
- Ultrasonic Sensors
- Forward and Downward Vision systems

DJI Mavic Pro

- Unboxing & main features

Step 2 — Camera & Gimbal Assembly & Fan

Forward Vision System Cameras

1/2.3" CMOS
12.71 Mega Pixels
28mm f/2.2 lens

C4K: 4096x2160 24P
4K: 3840x2160 24/25/30P
2.7K: 2720x1530 24/25/30P
FHD: 1920x1080 24/25/30/48/50/60/96P
HD: 1280x720 24/25/30/48/50/60/120P

DJI Mavic Pro



Downward Vision System Camera

Electric fan port

DJI Mavic Pro

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Step 3 — Battery assembly



Battery compartment of the DJI Mavic

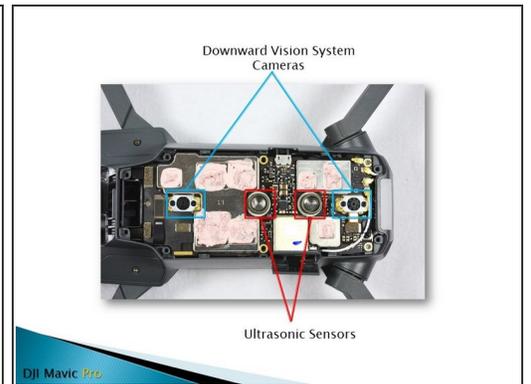
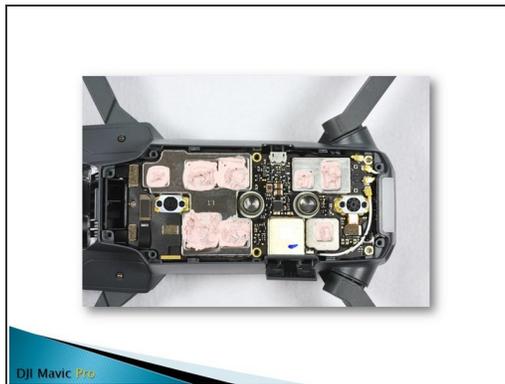
Lithium Ion Polymer Rechargeable Battery 3830mAh

Capacity	3830mAh
Voltage	11.4V
Battery Type	LiPo 3S
Energy	43.6 Wh

DJI Mavic Pro

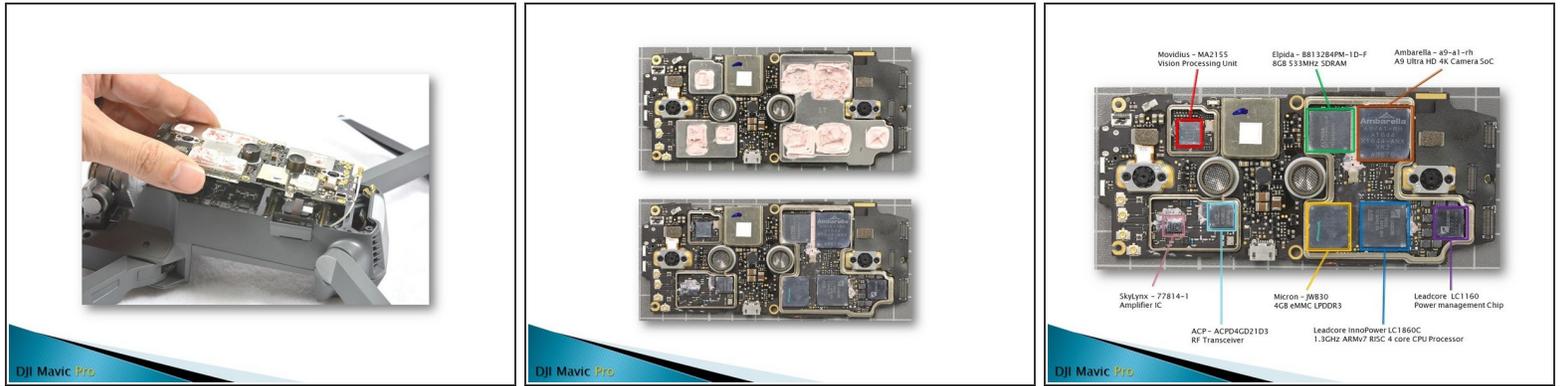
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Step 4 — Downward Vision & Sensors



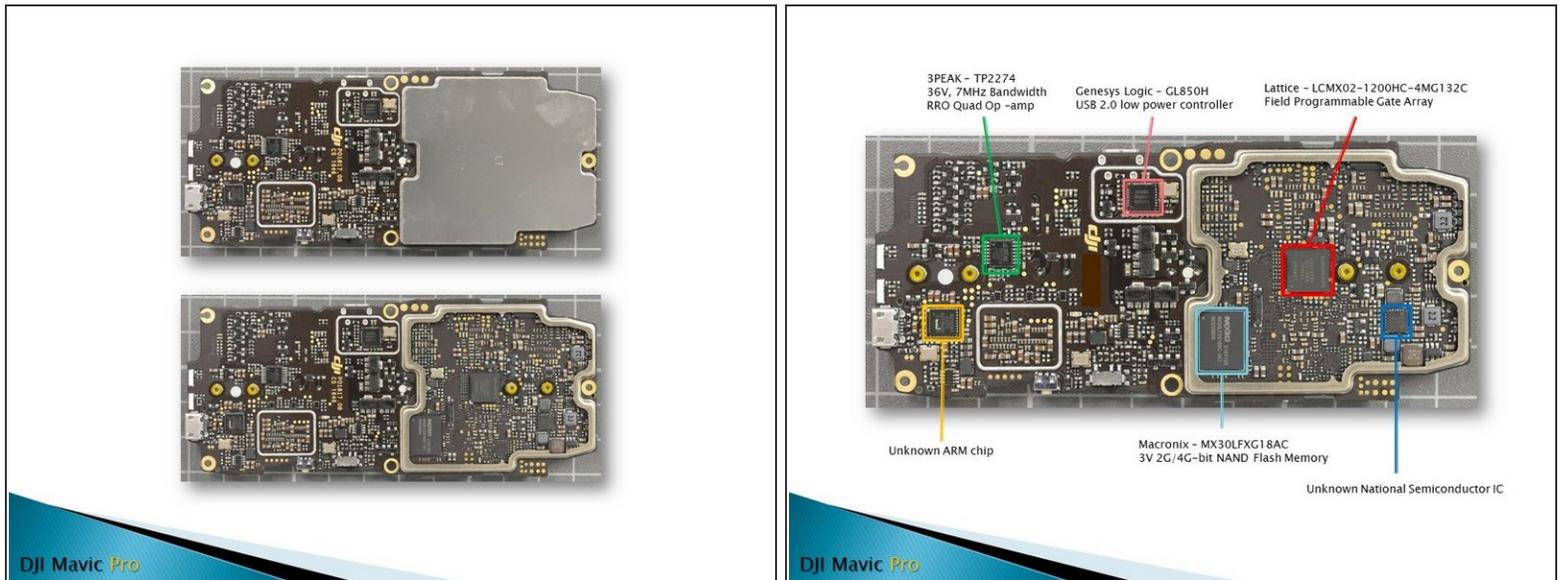
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Step 5 — Electronics & Semiconductors



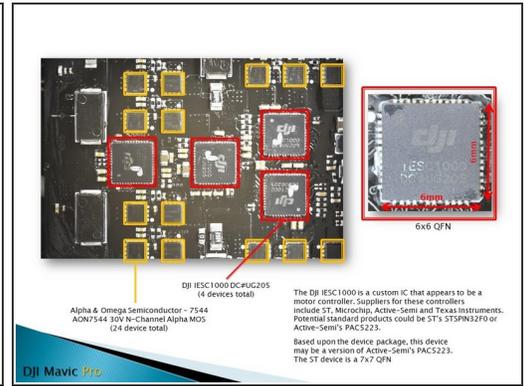
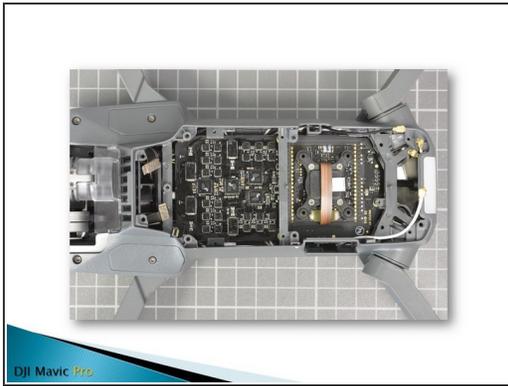
- Many semiconductors for video processing and RF. From: Movidius, Ambarella, Leadcore, SkyLynx, ACP, Micron, and Elpida

Step 6 — Semiconductors



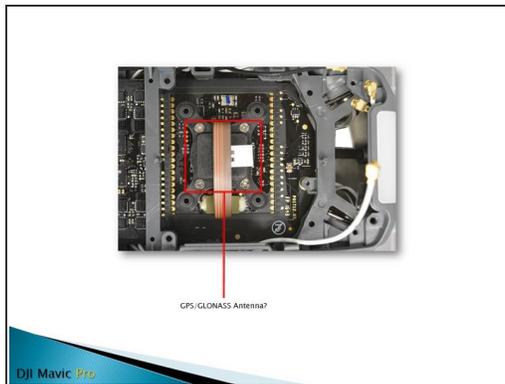
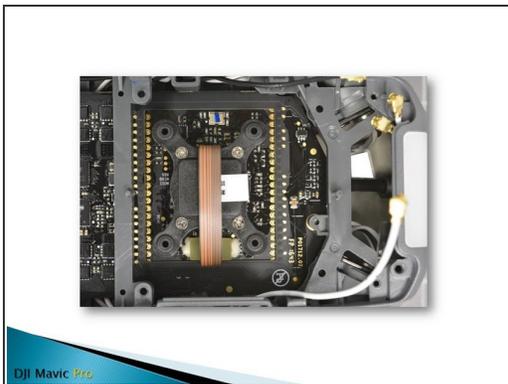
- Semiconductors from 3Peak, Genesis, Lattice, ARM, Macronix, & TI (National Semiconductor)

Step 7 — Motor Control



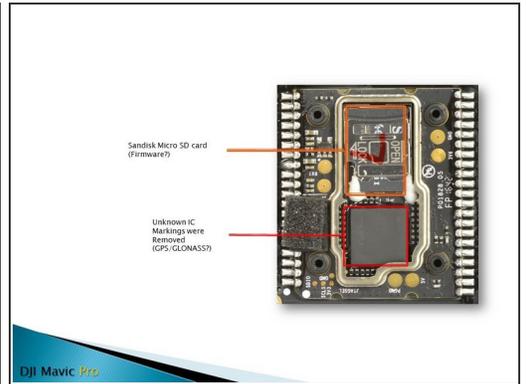
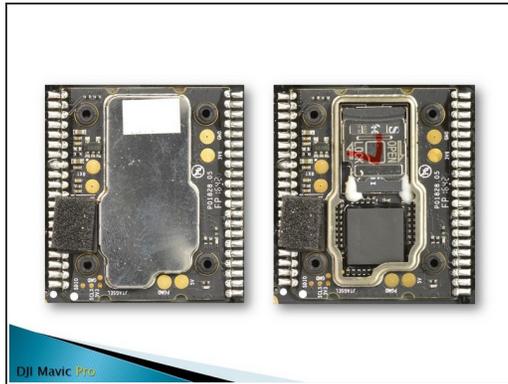
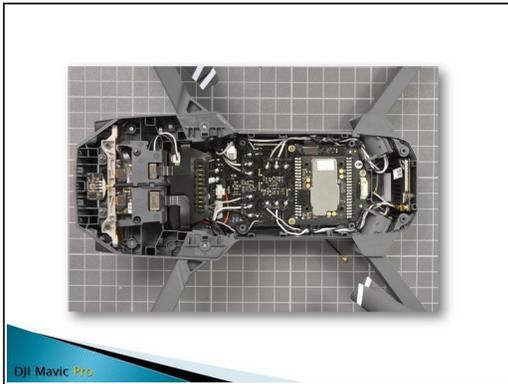
- Motor control: DJI IESC1000 (may be Active-Semi PAC5223 derivative), Alpha & Omega FETs

Step 8 — GPS/GLONASS Antenna



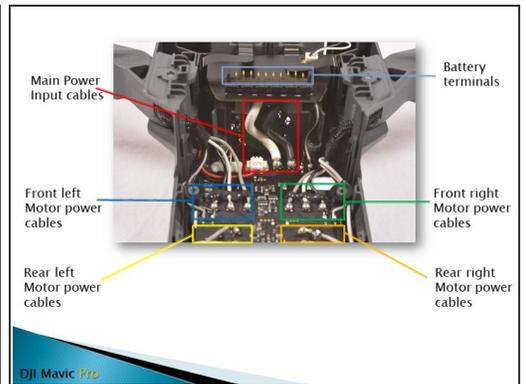
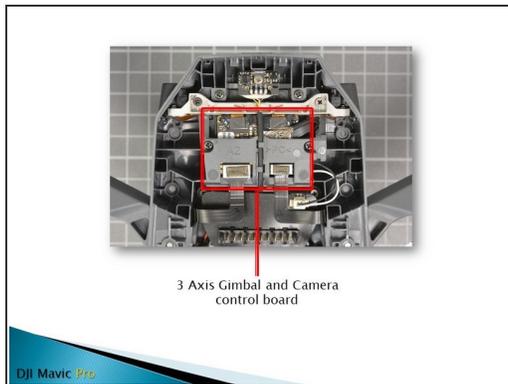
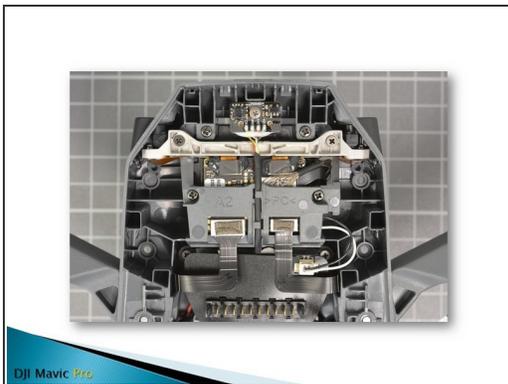
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Step 9 — FLASH Memory



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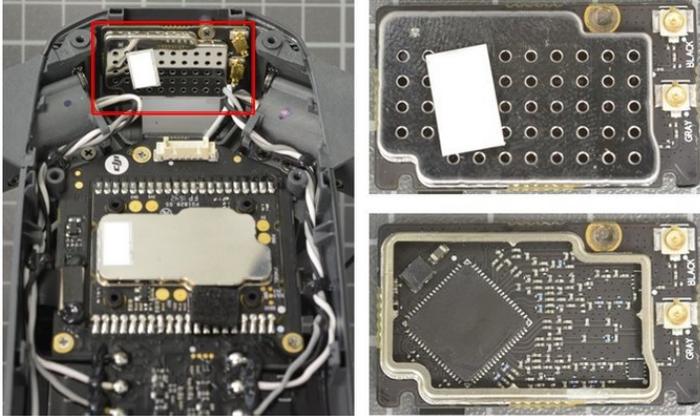
Step 10 — Gimbal Control & Power Routing



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Step 11 — WiFi Control Board

WiFi Control Board – Unknown WiFi IC
The markings were removed



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