

AIO with camera

User manual



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1. Product overview

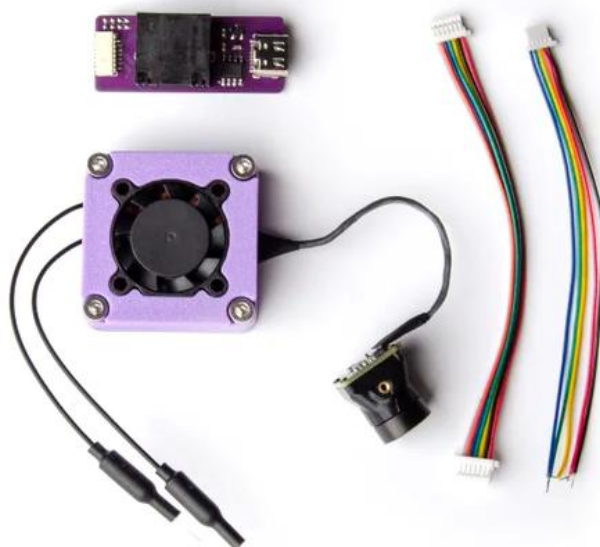


Fig.1. AIO with camera

The AIO Pilotix with camera is a complete digital FPV video kit built on the open-source Open IPC protocol, combining a Sony IMX CMOS camera, an Air Unit (VTX), and dual antennas in a single ready-to-fly package.

The camera uses a Sony IMX415 sensor (IMX335 optional) with an f/2.8 lens and a 147° field of view, delivering sharp, wide-angle footage at a compact 5.4 g. The Air Unit outputs up to 2 W (33 dBm) across a 5.18–5.845 GHz frequency range, with an integrated fan and heatsink for stable thermal performance during extended flights. Total system weight is approximately 22 g complete with cable, antennas, camera, and heatsink.

Designed for straightforward integration, the kit ships with all necessary cables and connectors, plus a debug serial port / network port adapter module for setup and configuration — making it suitable for both FPV pilots and developers working within the Open IPC ecosystem.

2. Wiring diagram

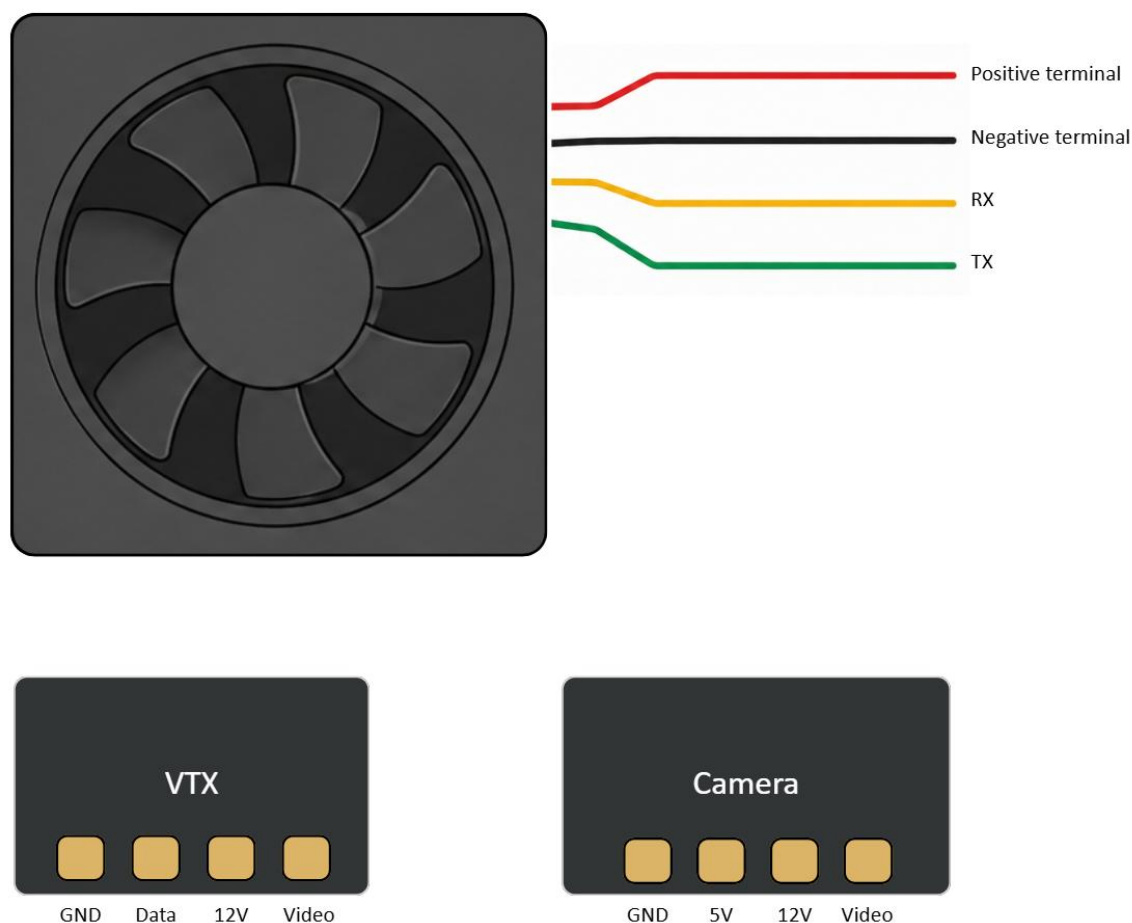


Fig.2. Wiring diagram

A cooling fan module:

- Red wire → Positive terminal (power +)
- Black wire → Negative terminal (power –, GND)
- Yellow wire → RX (receive) (UART receive)
- Green wire → TX (transmit) (UART transmit)

VTX connector:

- GND (ground)
- Data
- 12V (power)
- Video (output)

Camera connector:

- GND (ground)
- 5V (power)
- 12V (power)
- Video (output)

Contacts:

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