

FPV Soldering Practice Kit FC+ESC

User manual



Content

1. Product overview	3
2. Safety warnings.....	4
Contacts:	5

1. Product overview



Fig.1. FPV Soldering Practice Kit FC+ESC

The Pilotix FPV Soldering Practice Kit is a training set of two bare, unpopulated PCBs shaped and pad-laid-out like a real 4-in-1 ESC and a real Flight Controller (FC). Both boards carry no electronic components — no MOSFETs, no MCU, no capacitors — only the solder pads, mounting holes, and silkscreen markings found on genuine FPV stack boards. The kit is designed to let beginners practice soldering technique (pad tinning, wire placement, iron temperature control, and clean joints) on realistic pad spacing and pad sizes before working on an actual, functional ESC or FC. Because the boards are not populated and carry no active circuitry, they cannot be powered on and are not intended to control a motor or a drone.

2. Safety warnings

- Hot iron: A soldering iron tip can exceed 300°C. Always use a stand and let the tip cool before storing or touching it.
- Ventilation: Solder flux produces fumes. Work in a ventilated area, ideally with a fume extractor, and avoid breathing the smoke directly.
- Eye protection: Wear safety glasses when trimming wires or component leads — clipped ends can fly off with force.
- Not a functional product: These boards are unpopulated and carry no active circuitry. Never connect a battery or any power source to them — they are for soldering practice only and cannot control a motor or a drone.
- Keep away from children: Small offcut wires and component leads are a choking hazard for young children.

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