

VIKAS DRONE- READY TO FLY

Designed for STEM, Research &
Skill Development



no soldering required

FEATURES:



Smart
Integration



Built to Last



Swift & Easy
Assembly



Nationwide
Support



24/7 after
sales support

LEARN. BUILD. SOAR
Because student's don't just fly they take off with Vikas

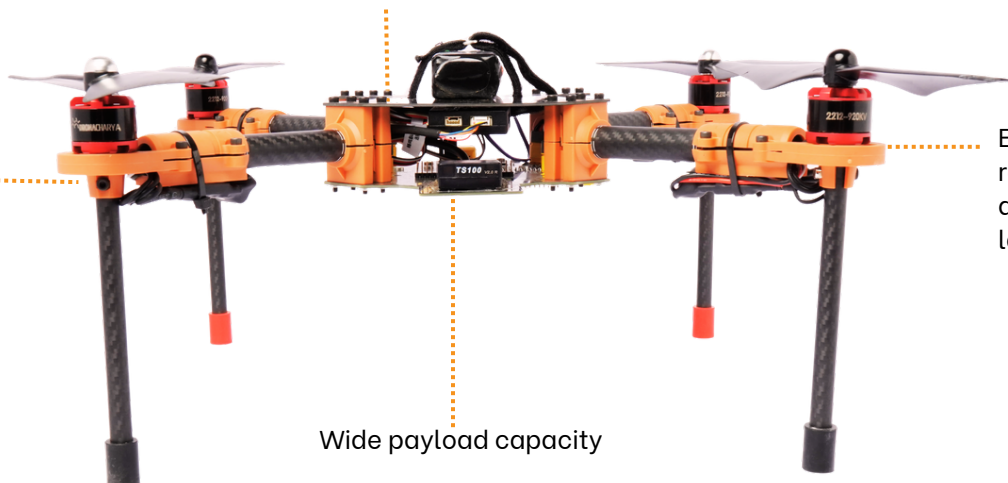




Specs without Camera

PCB fully ready for in-a-flash connection of any add-on

Snap-and-Fly
no soldering
assembly



Easy to
replace props,
arms and
landing gears

Wide payload capacity

Aircraft

Quad
Type

450mm
Diagonal wheelbase

160mm
Height

0.8kg
weight without battery

Pixhawk
Flight controller

11.1v
Operational voltage

1.1kg
Weight with battery

9.4"
Propellers

Endurance*

25km/h
Max speed

20min
Max Flight Duration

20km
Wind limit

1.5km
Flight range

500gm
Max payload

On-Board Connection



Fsi6 Remote



Telemetry Module

Use Cases

- Environmental Research – Attach sensors to collect atmospheric data.
- Payload Delivery Tests – Carry and drop small objects up to 500 g.
- Inspection & Survey – Practice aerial monitoring of structures and sites.

*Values mentioned are under ideal testing environment



Arduino



Raspberry Pi



Make in India

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What's in the Box?

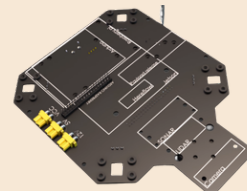
1 x Flight Controller: Radiolink MiniPix

- **Processor:** STM32F42732-bit ARMCortexM4 core with dual IMU
- **Input Voltage:** 4.8V – 5.5V
- **Communication Interfaces:** 2 x UART (telemetry), 1 x USB, I2C, PPM
- **Firmware:** Supports PX4 and ArduPilot
- **Weight:** ~15g
- **Form Factor:** Compact and lightweight, ideal for small drones



1 x Bottom PCB (Proprietary R&D Enabler)

- **Designed specifically for R&D and prototyping**
- **Integrated voltage rails:** 5V, 3.3V, and 12V outputs
- **Power distribution for ESCs, sensors, onboard computers (Raspberry Pi, Jetson Nano, etc.)**
- **Solder pads and headers for custom circuit integration**



1 x GPS Module: Radiolink TS100

- **GNSS Systems:** GPS, GLONASS, Beidou
- **Positioning Accuracy:** ±2.5 meters (horizontal)
- **Refresh Rate:** 10 Hz
- **Communication:** UART and I2C
- **Operating Voltage:** 5V DC
- **Antenna:** Ceramic active antenna



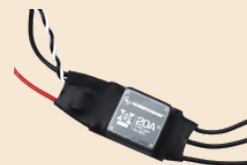
4 x Brushless Motors: 920KV 2212 (2 CW + 2 CCW)

- **KV Rating:** 920KV
- **Max Current:** ~15–18A
- **Shaft Diameter:** 3.17mm



4 x Electronic Speed Controllers: Hobbyking 20A ESC (Custom Vikas Connectors)

- **Max Current:** 20A continuous, 25A burst (10s)
- **Connector:** Proprietary Vikas plug-in system for easy swaps



1 x 2200 mAh Li-Po Battery

- **Voltage:** 11.1V (3S)
- **Capacity:** 2200 mAh
- **Discharge Rate:** 25C – 35C
- **Connector:** XT60



1 x Li-Po Balance Charger

- **Supports 2S–3S Li-Po batteries**
- **LED indicators for cell balance and charging completion**
- **Over-voltage and over-current protection**



1 x Propeller Set (CW & CCW)

- **2 x Clockwise and 2 x Counterclockwise**
- **Balanced for smooth flight and efficient thrust**



4 x Motor Mounts (Molded Plastic Shells)

- **Custom-designed heavy-duty motor mounts made from durable molded plastic**
- **Withstand vibration and mechanical stress**
- **Allow for fast, tool-less replacements**



What's in the box?

4 x Carbon Fiber Arms (Custom-Made for Vikas)

- Lightweight yet highly rigid
- Designed for modular swapping and high endurance
- Mounting compatible with Vikas motor mounts and bases



8 x Arm Bases (Custom Vikas Shell)

- Precision-molded hard plastic that securely holds the frame together
- Designed to fit modular carbon arms and ensure easy maintenance



4 x Carbon Fiber Landing Poles

- Shock-absorbing landing gear
- Carbon fiber structure ensures durability during repeated takeoffs/landings



1 x Top Plate (Universal Integration Platform)

- Designed for wide compatibility with various drone components
- Supports multiple battery sizes and payloads
- CNC-cut for precision and flexibility in mounting



1 x Set of Fasteners & Consumables

- Screws, bolts, and nuts compatible with all parts of the Vikas drone
- Stainless steel and anodized aluminum mix
- Zip ties, double-sided tape, Velcro straps
- For cable management and secure mounting



1 x 2.5mm Allen Key

- Provided for assembly and maintenance



1 x Set of Silicon Landing Caps

- Soft end caps for landing poles
- Reduces vibration and wear during landings



1x Fsi6 Remote Controller

- 2.4GHz AFHDS transmitter with stable, interference-free communication
- Supports multiple flight modes, channel mixing, and real-time telemetry display



Warranty Periods:

- Electronic components: Flight Controller, Transmitter, Receiver, GPS Module, and other included electronic parts: 48 hours from the date of delivery
- Motor & ESCs: 7 days from the date of delivery
- Structural components (Plastic and Carbon Fiber parts): Only damages incurred during transportation or breakage upon arrival are eligible for warranty replacement
- Add on components (camera, LiDAR, additional transmitters, etc.): 48 hours from the date of delivery

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