DRONEYARDS
Fly High Fly Smart

DY INTERMEDIATE KIT

The DY Intermediate Kit is a professional FPV training package built for Army soldiers who have already mastered LOS basics and are ready to enter full FPV flying.

This drone integrates complete FPV capability with camera, VTX, and FPV goggles, along with INAV firmware support enabling:

- Altitude Hold (ALTHOLD)
- Position Hold (POSHOLD)
- Return to Home (RTH)
- GPS Navigation & Rescue

This kit provides a safer, smarter, and more stable training experience, allowing soldiers to learn true FPV flight while retaining safety nets powered by INAV.

It is the bridge between beginner trainers and advanced kamikaze/defense FPV drones.



For more information call us: **+91-8506969051**

📦 COMPLETE KIT COMPONENTS:

1. 5” Carbon Fiber FPV Frame



- Size: 5-inch
- Material: 3K Carbon Fiber
- Arms: Reinforced high-impact 4mm
- Mounting: 20×20mm & 30×30mm stack compatibility
- Design: Crash-proof, training-friendly, easy part replacement

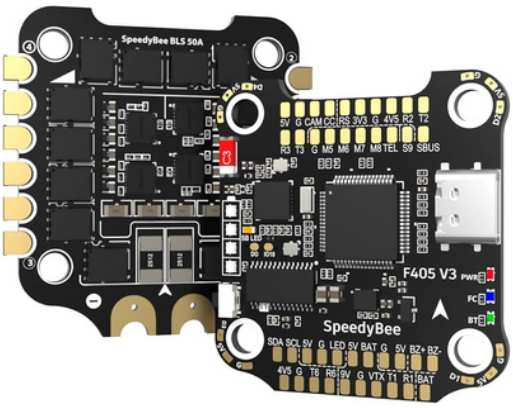
2. 2300KV Brushless Motors



- KV Rating: 2300KV (ideal for 3S beginners)
- Prop Support: 5” tri-blade
- Features:
  - High torque
  - Smooth throttle for controlled learning
  - Long life & heat-resistant

3. 45A STACK (ESC + Flight Controller Combo)

ESC (Electronic Speed Controller)



- Rating: 45A 4-in-1
- Firmware: BLHeli_S/BLHeli_32
- Voltage Support: 3S–4S
- Protection: Over-current, overheat.

Flight Controller

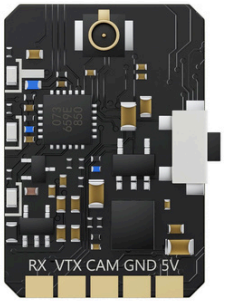
- Processor: F4 / F7 grade
- Gyro: Stable sensor for smooth flight
- OSD Support: On-screen stats (if FPV goggles upgraded later)
- UARTS: Supports ELRS connection

4. FPV Camera (Analog)



- Type: 1200TVL CCD/CMOS
- Lens: 2.1mm wide-angle
- Low-light optimized
- Latency: Ultra-low, ideal for training
- Rugged shell for crash survival

5. VTX (Video Transmitter – Analog)



- Power Output: 25mW / 100mW / 200mW switchable
- Frequency: 40 channels
- Antenna: RHCP/LHCP (included)
- Range: 1–2 km LOS
- Lock-on stable signal for soldiers in dynamic movements

6. FPV Goggles



- Type: Box goggles or compact training goggles
- Display: 4.3–5" HD bright display
- Compatibility: All 5.8GHz VTX
- Designed for Army field training – wide FOV, durable shell

7. GPS Module



- Model: BN-220 / M10
- Features:
  - Accurate satellite locking
  - RTH support
  - POSHOLD stability
- Essential for training soldiers in assisted FPV flight

8. ExpressLRS Receiver (ELRS)



- Frequency: 2.4GHz
- Range: 1–2 km LOS
- Features:
  - Ultra-stable signal
  - Low latency
  - Fail-safe safety triggers
- Perfect for basic training and extended LOS practice

9. Radiomaster Pocket Radio Controller



- Channels: 16
- Protocol: ELRS
- Screen: LCD settings & easy binding
- Range: 1–2 km
- Built for rugged Army training use
- Lightweight & pocket-sized for field operations

10. 2200mAh 3S LiPo Battery



- Capacity: 2200mAh
- Voltage: 3S
- Flight Time: 6–9 minutes (depending on throttle use)
- Designed for safe, lower-power beginner practice

11. SkyRC Smart LiPo Battery Charger



- Charging: Balanced charging for LiPo
- Modes: Balance / Fast / Storage mode
- Display: Voltage & cell monitoring
- Field-use ready and highly safe

🔥 PRODUCT HIGHLIGHTS

🛡️ Ruggedised for Army Training

- Built to survive multiple crashes
- Reinforced carbon frame & protected electronics
- Easy-to-repair modular design

🎮 Perfect for Beginners

- Slow, controllable response
- Stable hover tuning
- Predictable movements for LOS mastery

🚀 Powerful Yet Safe

- 2300KV motors optimized for smooth learning
- 3S battery ensures safe thrust output

ALTITUDE HOLD (ALTHOLD)

- Maintains stable altitude—perfect for beginners entering FPV.
- Helps soldiers focus on directional control, not throttle.

POSITION HOLD (POSHOLD)

- Drone stays in one place using GPS lock.
- Useful for safe practice and orientation training.

RETURN TO HOME (RTH)

- If the pilot loses orientation or control, a single switch brings the drone back automatically.
- Huge safety advantage for new FPV pilots.

🎯 PRIMARY USE-CASE – INDIAN ARMY TRAINING

Designed exclusively for:

Designed for:

- FPV entry-level soldiers
- RTH-assisted FPV learning
- Tactical FPV movement training
- High-confidence flight before combat FPV drones

Training Skills Developed:

- FPV orientation
- Tight-space navigation
- Altitude/stability management
- How GPS assists and saves flights
- Emergency RTH usage
- High-speed maneuvering practice

- 🟦 **INCLUDED IN DY INTERMEDIATE KIT**
- **5” FPV Drone Frame**
- **VTX + FPV Camera**
- **FPV Goggles**
- **GPS Module**
- **ELRS Receiver**
- **2300KV Motors x 4**
- **45A Stack**
- **Radiomaster Pocket Controller**
- **3S 2200mAh LiPo Battery x 2**
- **Imax B6 AC Charger**
- **Props Set x 2**

