1. **Altitude Limit**: The drone should be capable of reaching a maximum height of 30 meters above the ground.
2. **Low Altitude Stability**: The drone needs to maintain a stable hover at a minimum height of 1 meter above the ground.
3. **Flight Time**: The drone should be able to fly continuously for at least 10 minutes on a full battery charge.
4. **Battery Charging Duration**: The battery should be fully charged within 30 minutes using the provided charger.
5. **Payload Capacity**: The drone should carry a load of up to 5 grams without a noticeable drop in performance.
6. **Speed**: The drone should be able to fly at a top speed of 18 km/h under normal conditions.
7. **Wind Stability**: The drone should remain stable in wind speeds up to 15 km/h.
8. **GPS Precision**: The drone’s GPS should have a positional accuracy within ±2 meters.
9. **Camera Quality**: The built-in camera should have a resolution of at least 720p HD.
10. **Control Distance**: The drone should maintain a reliable connection with the controller up to 100 meters.
11. **Weight**: The drone should not exceed a takeoff weight of 63 grams, including the battery and any attachments.
12. **Stability**: The drone should maintain a level flight with pitch and roll deviations not exceeding ±5 degrees.
13. **Hover Precision**: The drone should hover within a 0.5-meter radius from a fixed point without manual control.
14. **Temperature Range**: The drone should operate reliably within temperatures ranging from -10°C to 40°C.
15. **Auto Return**: The drone should automatically return to its takeoff point if the signal is lost or the battery is critically low.
16. **Obstacle Avoidance**: The drone should detect and avoid obstacles within a range of 1 meter.
17. **Flight Modes**: The drone should offer at least three flight modes: beginner, intermediate, and expert, each with varying levels of automated control.
18. **Battery Indicator**: The drone should have an LED indicator or app notification for battery levels, alerting at 20% remaining.
19. **FPV Support**: The drone should support First Person View (FPV) via a compatible smartphone app, with a latency of less than 200ms.
20. **Firmware Updates**: The drone should support firmware updates via USB or Wi-Fi to ensure access to the latest features and fixes.