Consumer RGB Drone Aerial Capture Checklist

Gen-4 Aerial Protocol · Sub-250g & Certified RPAS Pilots

Pre-flight and in-flight optical capture checklist for woodlot owners, municipalities, and commercial drone pilots mapping multi-tree canopies.

Pre-Flight & Compliance

- Confirm landowner permission, local airspace authorization, visual line-of-sight (VLOS), and applicable Transport Canada RPAS or FAA Part 107 rules.
- Clean camera lens optics and verify native RGB photo resolution with digital zoom disabled.
- Fly during calm winds (< 25 km/h) and dry conditions to keep upper crown silhouettes sharp.

Optical Capture Best Practices

- Capture steady, well-focused aerial frames with clear lighting across the target canopy stand.
- Center target stands cleanly inside the frame so optical geometry remains consistent from center to edges.
- On sloped ridges or uneven terrain, maintain consistent height above canopy or log terrain grade across passes.

Dual-Track Municipal & Woodlot Workflows

- Combine aerial drone sweeps of greenbelts and woodlots with ground smartphone captures of street and park trees—both streams export into one unified GIS schema.
- Enterprise pilot scoping: enterprise@rootedcarbon.com

© 2026 Rooted Carbon · Dieppe, New Brunswick