

AgriDock Quick Start

Get Flying in 30 Minutes

Version 1.0

Essential steps to deploy your AgriDock system quickly and safely

Step 1: Unpack & Inspect (5 minutes)

What You Received

- AgriDock Station (main unit)
- AgriDock Drone (or compatible aircraft)
- 2 Intelligent Batteries
- Professional Controller
- Charging hub and power cables
- Carrying case with accessories

⚠ Safety First: Do NOT power on or charge anything yet. Visually inspect all components for shipping damage. Contact support immediately if you find cracks, bent components, or water damage.

Critical Pre-Power Checklist

- Drone propellers intact and balanced
- No water inside battery compartments
- All connectors clean and dry
- Station base is stable and level

Step 2: Setup Location (5 minutes)

Ideal Station Location

- Open flat area, minimum 10m × 10m clear space
- Away from trees, buildings, and power lines
- GPS signal available (at least 12 satellites)
- Protected from heavy winds and rain
- WiFi or 4G connectivity for mission updates


Station Setup

- 1 Position base:** Place station on level ground. Use leveling feet if terrain is uneven (max 5° tilt acceptable).
- 2 Secure connection:** Drive stakes through anchor points if windy area. Station must not move during drone operations.
- 3 Power connection:** Connect 120/240V power cable to main socket. Green LED should illuminate.
- 4 Network connection:** WiFi auto-detects. For cellular, insert SIM card into slot on back (optional).

Step 3: Charge & Connect (5 minutes)

Initial Battery Charge

- Insert both batteries into charging hub (dock ports)
- Green lights indicate charging started
- Blue lights indicate fully charged (takes ~60 minutes)

 **Pro Tip:** While batteries charge, perform system software updates. Station will auto-download latest features and security patches.

Controller Setup

- 1 Charge controller:** Plug USB cable into controller base. Indicator shows charging status.
- 2 Download app:** Search "AgriDock" in App Store (iOS) or Play Store (Android).
- 3 Create account:** Sign up with email. Save login credentials.
- 4 Pair controller:** Turn on controller. App auto-detects and pairs via Bluetooth.

Step 4: First Flight (10 minutes)

⚠ **Fly in an empty field.** Keep people and animals at least 100m away. Do not attempt auto-docking on first flight.

Pre-Flight Check

- Propellers balanced and properly attached
- Battery fully charged
- GPS lock achieved (at least 12 satellites)
- Controller connected (app shows signal strength)

Takeoff

- 1 **Position drone:** Place on flat ground, away from people.
- 2 **Arm motors:** Push right stick down to bottom for 2 seconds. Motors spin slowly.
- 3 **Throttle up:** Gradually increase throttle. Aircraft lifts off at ~50% power.
- 4 **Hover:** Maintain altitude for 1-2 minutes to verify stability.
- 5 **Land:** Reduce throttle smoothly. Aircraft should touch down gently.

Success Indicators

- ✓ Smooth, stable flight with no drifting
- ✓ Motors respond immediately to controls
- ✓ Battery level shows healthy (>80%)
- ✓ GPS accuracy within 1-2 meters

Step 5: Auto-Docking (5 minutes)

Ready to try docking? Make sure first manual flight was successful and station is properly positioned.

Prepare for Docking

- 1 Load mission:** In app, create simple waypoint mission near dock (50m altitude).
- 2 Launch:** Press launch button. Drone auto-takes off and flies to first waypoint.
- 3 Return to dock:** At end of mission, select "Return to Dock" command.
- 4 Watch landing:** Drone automatically approaches dock, descends, and locks in. This is normal!

Post-Dock Status

- Blue lights indicate docking complete
- Battery will begin charging automatically
- App shows "Aircraft Docked & Charging"
- Data automatically syncs (flight footage, coverage maps)

Troubleshooting Quick Reference

Problem	Quick Fix
GPS won't lock	Move away from buildings. Wait 2-3 minutes. Check sky is visible above.
Controller won't connect	Turn controller off, restart app, then turn controller on. Check Bluetooth is on phone.
Battery won't charge	Check power cable is plugged in. Verify battery contacts are clean (wipe with dry cloth).
Drone drifts during hover	Recalibrate compass. In app: Settings > Calibration > Compass. Follow on-screen guide.
Auto-docking fails	Manually dock first. Ensure station is level. Contact support if repeats.

Need help? Visit support.agridock.com or email support@agridock.com

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