

DJI Pilot 2 RTK pre-flight

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Steps and menu names from the DJI Matrice 4 Series manual. Other DJI Enterprise drones on DJI Pilot 2 use the same RTK menu.

Date _____ Site _____ Crew _____ Mount point _____

BEFORE YOU LEAVE

- ☐ Airspace checked. FAA authorization (LAANC) in controlled airspace. [1]
- ☐ Weather: 3 statute miles visibility, 500 ft below and 2,000 ft sideways from clouds. [2]
- ☐ Route height 400 ft above ground or lower. [2]
- ☐ Remote ID is working. [3]
- ☐ Aircraft and controller batteries fully charged; battery buckles pop out so the battery is locked in. [4]
- ☐ Firmware for all devices and DJI Pilot 2 updated to the latest version. [4]
- ☐ Controller internet ready: DJI Cellular Dongle 2 with a nano-SIM, or Wi-Fi/hotspot. [4]
- ☐ NTRIP details at hand: address, port, account, password, mount point. [4]

ON SITE

- ☐ Site walked; people, property and hazards noted; crew briefed. [5]
- ☐ No water, dirt or sand inside; air vents and cooling holes clear; unused ports closed. [4]
- ☐ Propellers same model, secure, undamaged; arms and blades unfolded. [4]
- ☐ Lenses and vision sensors clean; gimbal protector removed before power-on. [4]
- ☐ Controller antennas in position. Power on, flight mode switch in N-mode, link LEDs solid green. [4]
- ☐ Aircraft on flat open ground, at least 5 m (16 ft) from you, nothing tall nearby. [4]
- ☐ RTH altitude set for this site (default is 100 m, about 328 ft). [4]
- ☐ Go through the Pre-Flight Checklist screen in DJI Pilot 2. [4]

RTK IN DJI PILOT 2

- ☐ Camera View > settings > RTK: RTK Positioning ON. [4]
- ☐ RTK service type: Custom Network RTK (not D-RTK). Fill in the NTRIP fields and tap Save. [4]
- ☐ Wait for satellites first, then connect, so the caster gets your real position. [6]
- ☐ Status table shows FIX before you start the mission. [4]
- ☐ Maintain Positioning Accuracy Mode only bridges short outages. If RTK drops, check status before you keep mapping. [4]

AFTER THE FLIGHT

- ☐ Photo metadata RtkFlag = 50 (fixed). 16 = single, 32–49 = float. [4]
- ☐ Check shots measured and compared. [7]

SOURCES (CHECKED OCT 28, 2026)

- [1] 14 CFR 107.41, Operation in certain airspace (authorization, e.g. LAANC) <https://www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-107/subpart-B/section-107.41>
- [2] 14 CFR 107.51, Operating limitations (400 ft, 3 mi visibility, cloud clearance) <https://www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-107/subpart-B/section-107.51>
- [3] 14 CFR Part 89, Remote Identification of Unmanned Aircraft <https://www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-89>
- [4] DJI Matrice 4 Series User Manual v1.0 (2025.01): Pre-Flight Checklist, Aircraft RTK, RTH, photo metadata https://dl.djicdn.com/downloads/DJI_Matrice_4_Series/DJI_Matrice_4_Series_User_Manual-en.pdf
- [5] 14 CFR 107.49, Preflight familiarization, inspection, and actions <https://www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-107/subpart-B/section-107.49>
- [6] RTKdata docs: DJI Pilot 2 RTK setup (wait for a GNSS position before connecting, or the caster gets 0,0) <https://docs.rtkdata.com/integration-hub/ntrip-clients-and-field-software/dji-pilot-pilot-2>
- [7] Pix4D: Number and distribution of GCPs <https://support.pix4d.com/hc/en-us/articles/202557489>

Follow your own equipment manual if it differs. Latest version: findrtk.com/tools/checklists