**DJI Air 3S (RC-N3)**

# DJI Air 3S User Manual

Model: Air 3S (RC-N3)

## 1. Product Overview

The DJI Air 3S is an advanced drone featuring dual 4K/60fps HDR video cameras, sophisticated obstacle avoidance sensors, and an extended 20km transmission range. Designed for travel creators, it offers intelligent features for capturing high-quality aerial footage.




Image: The DJI Air 3S drone and its accompanying RC-N3 remote controller.

## Key Features:

- **Enhanced Camera:** Features a 1" CMOS primary camera for breathtaking shots with enriched detail in low-light scenarios and a medium tele camera.
- **Vibrant 4K/60fps HDR Video:** Records cinematic footage with up to 14 stops of dynamic range for intricate detail.
- **Free Panorama Mode:** Create seamless panoramic shots with wide-angle and medium tele options.
- **Safer Nighttime Flying:** Forward-facing LiDAR and additional sensors enable omnidirectional obstacle sensing.
- **Next-Gen Smart Return-To-Home:** Intelligently selects optimal RTH routes, even in weak GPS signal areas.
- **Extended Flight & Video Transmission:** Up to 45-minute max flight time and 20km transmission range.
- **Built-in Storage:** 42GB of internal storage for immediate recording.

## Introduction Video:

Video: An introductory overview of the DJI Air 3S drone's features and capabilities.

## 2. What's in the Box

The standard DJI Air 3S (RC-N3) package includes the following components:




Image: Visual representation of the items included in the DJI Air 3S package.

- DJI Air 3S Aircraft x1
- DJI RC-N3 Remote Controller x1
- DJI Air 3S Intelligent Flight Battery x1
- DJI RC-N3/N2/N1 RC Cable (USB-C Connector) x1
- DJI RC-N3/N2/N1 RC Cable (Lightning Connector) x1
- DJI Air 3 Series Spare Low-Noise Propellers (Pair) x1
- DJI Air 3S Gimbal Protector x1
- Type-C to Type-C PD Cable x1

Note: Battery charger sold separately. It is recommended to purchase the DJI 65W Portable Charger.

## 3. Setup

### Initial Preparation:

1. **Unpack Components:** Carefully remove all items from the packaging.
2. **Charge Battery:** Fully charge the Intelligent Flight Battery and the remote controller before first use.
3. **Attach Propellers:** Securely attach the low-noise propellers to the motor arms. Ensure correct propeller types (CW/CCW) are matched to the corresponding motors.
4. **Remove Gimbal Protector:** Before powering on, remove the gimbal protector from the camera.

### Software Installation and Activation:

The DJI Air 3S requires the DJI Fly app for operation. Ensure you have the latest version installed on your mobile device.

- **Download DJI Fly App:** Visit the official DJI website to download and install the latest version of the DJI Fly app.
- **Activation:** The DJI Air 3S must be activated through the DJI Fly app before its first use. Follow the on-screen prompts within the app to complete the activation process.
- **Firmware Update:** When connected to the remote controller and an internet connection, the DJI Fly app will prompt you if a new firmware version is available. Follow the instructions to update the firmware for the aircraft, remote controller, battery, and other devices. Alternatively, you can use the DJI Assistant 2 (Consumer Drones Series) software on a computer.

### First Flight Considerations:

Video: A guide to preparing for and executing your first flight with the DJI Air 3S.

Always check and strictly abide by local laws and regulations before flying. Ensure you are in an open environment, away from obstacles, and with strong GPS signals for optimal performance and safety.

## 4. Operating

### Flight Controls and Modes:

The DJI Air 3S offers intuitive controls via the RC-N3 remote controller and various intelligent flight modes to enhance your flying and shooting experience.




Image: The DJI Air 3S drone in flight over a mountainous landscape, demonstrating its operational environment.

- **Basic Flight:** Use the remote controller sticks to control altitude, direction, and speed. Refer to the DJI Fly app for real-time flight data and settings.
- **Intelligent Flight Modes:** Access modes like QuickShots, MasterShots, and FocusTrack through the DJI Fly app for automated cinematic maneuvers.
- **Smart Return-To-Home (RTH):** The drone will automatically return to its Home Point when the battery is low, connection is lost, or RTH is manually initiated. The Air 3S uses upgraded algorithms to select the optimal RTH route.

## Camera Operation:

The dual-camera system provides versatile shooting options:




Image: Detailed view of the DJI Air 3S's dual-camera system, highlighting the wide-angle and medium telephoto lenses.

- **Wide-Angle Camera:** 1-inch CMOS sensor, 24mm equivalent, 50MP photos, f/1.8 aperture. Ideal for expansive landscapes.
- **Medium Tele Camera:** 1/1.3-inch CMOS sensor, 70mm equivalent, 48MP photos, f/2.8 aperture. Great for compressing perspective and capturing distant subjects.
- **HDR Video:** Record 4K/60fps HDR video with 14 stops of dynamic range for rich, vibrant colors.
- **Panorama Mode:** Utilize the Free Panorama feature to stitch together multiple images for seamless panoramic shots.

## Obstacle Sensing and Safety:

The Air 3S is equipped with advanced obstacle sensing for safer flights.

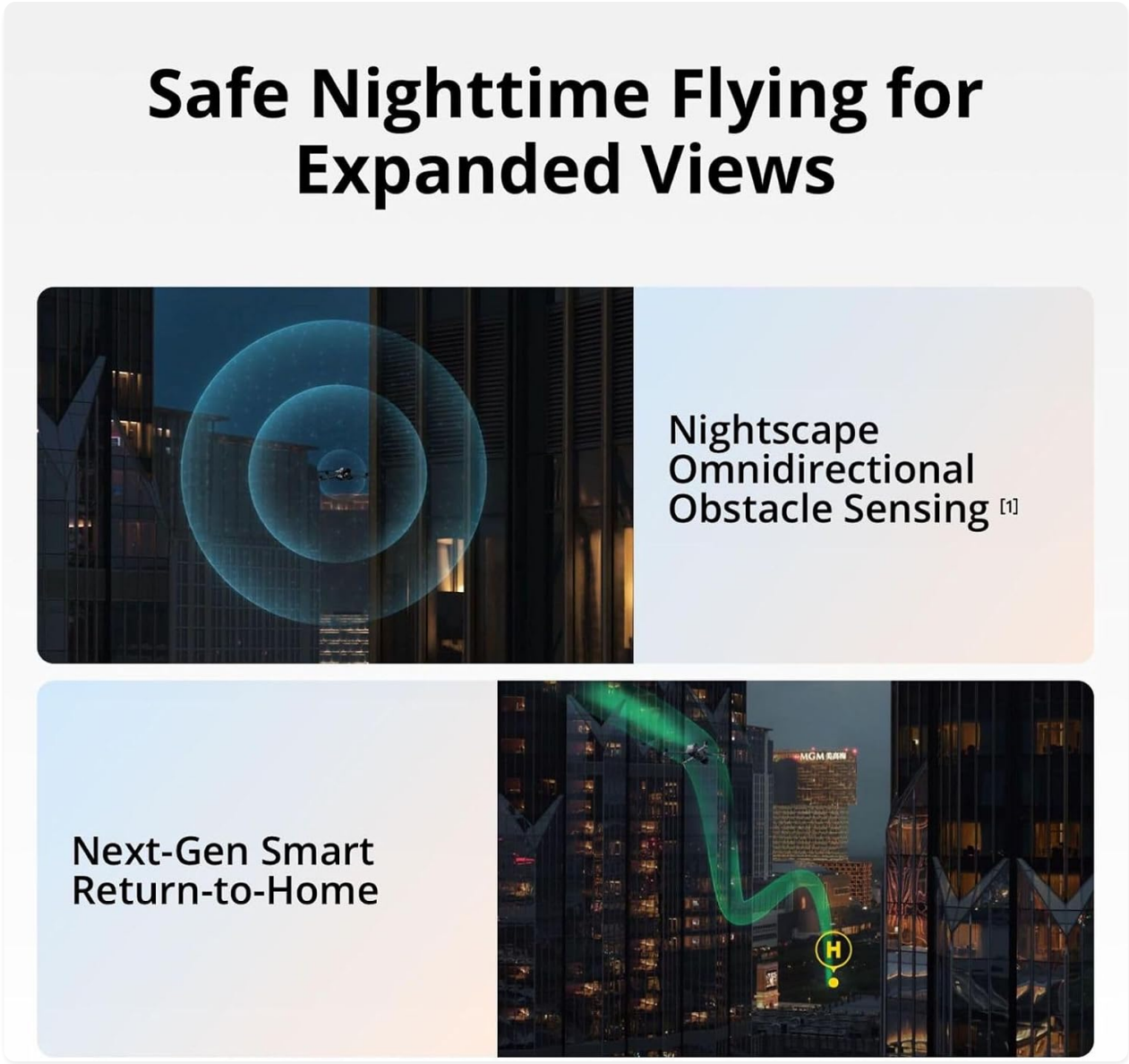



Image: Visual explanation of the drone's omnidirectional obstacle sensing and intelligent return-to-home pathfinding.

- **Omnidirectional Obstacle Sensing:** Sensors on the front, back, left, right, and top sides detect obstacles, allowing the drone to avoid collisions.
- **Nightscape Obstacle Sensing:** Forward-facing LiDAR and additional sensors enhance obstacle avoidance in low-light conditions.

### FocusTrack Feature:

Video: Demonstration of the DJI Air 3S FocusTrack feature, showing its ability to intelligently follow subjects.

## 5. Maintenance

### Battery Care:

- **Charging:** Always use the recommended DJI charger. Do not connect external devices or insert/remove batteries during power accumulation.
- **Storage:** Store batteries in a cool, dry place. For long-term storage, discharge batteries to approximately

50-60% capacity.

- **Temperature:** Avoid charging or operating batteries in extreme temperatures.

### Propeller and Motor Inspection:

- **Before Each Flight:** Inspect propellers for any cracks, bends, or damage. Replace damaged propellers immediately using the provided spares.
- **Motor Check:** Ensure motors are free from dust, debris, or obstructions.

### Gimbal and Camera Maintenance:

- **Gimbal Protector:** Always attach the gimbal protector when the drone is not in use or during transport to prevent damage.
- **Lens Cleaning:** Use a soft, clean cloth to gently wipe the camera lens. Avoid abrasive materials.

### General Cleaning:

- Wipe the drone's body with a clean, damp cloth. Avoid using harsh chemicals.

## 6. Troubleshooting

### Common Issues and Solutions:

| Issue | Possible Cause | Solution |
|---|---|---|
| Drone not powering on | Low battery, battery not inserted correctly | Ensure battery is fully charged and properly inserted. |
| Weak GPS signal | Flying indoors, near tall buildings, or in areas with interference | Fly in open areas away from obstructions and strong magnetic fields. |
| Obstacle avoidance not working | Low light conditions, reflective surfaces (water/snow), narrow spaces | Ensure adequate lighting (above 1 lux), avoid reflective surfaces. Exercise caution in complex environments. |
| Cannot connect to remote controller | Remote controller not paired, interference | Re-pair the remote controller with the aircraft. Move to an area with less wireless interference. |
| Firmware update failed | Low battery, unstable internet connection | Ensure both drone and remote controller are sufficiently charged. Maintain a stable internet connection. Try updating via DJI Assistant 2 on a computer. |

### Important Notes:

- Always check and strictly abide by local laws and regulations before flying.

- All data was tested with a DJI Air 3S production model in a controlled environment. Actual experience may vary depending on the environment, usage, and firmware version.
- The ActiveTrack 360° feature is recommended for use in open environments.

## 7. Specifications

| Feature | Detail |
|---|---|
| Brand | DJI |
| Model Name | DJI Air 3S |
| Item Model Number | 6941565989949 |
| Color | Gray |
| Item Weight | 724 Grams (1.6 pounds) |
| Product Dimensions | 10.48"L x 12.81"W x 4.17"H |
| Video Capture Resolution | 4K |
| Effective Still Resolution | 48 MP |
| Optical Sensor Technology | CMOS |
| Connectivity Technology | Bluetooth, Wi-Fi |
| Maximum Range | 20 Kilometers |
| Battery Cell Composition | Lithium Ion |
| Batteries Included | Yes (1 CR5 battery required for remote controller, included) |
| Remote Control Included? | Yes |
| Skill Level | All |

## 8. Warranty and Support

DJI provides an official warranty and comprehensive technical support for the Air 3S drone. For detailed warranty information, service requests, or technical assistance, please visit the official DJI support website or contact their customer service.

You can find more information and support resources by visiting the official DJI Store on Amazon.

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