



DJI Terra Release Note

Version: 3.0.0

Update details

【 New 】

- Supports cluster computing mode
- Supports processing Lidar point cloud collected by ZENMUSE L1

【 Optimization 】

- Increased real-time 3D model processing speed by about 20%
- Increased 3D reconstruction processing speed by about 20%
- Optimized large-scale data reconstruction experience
- Optimized DSM and DOM for 2D reconstruction (DSM reduces the irregular outward expansion of a structure's borders to make the border appear smoother and less frizzy, while DOM optimizes the border area of a structure)
- Added PLY format and PCD format to 3D point cloud reconstruction results
- Current reconstruction tasks can now be viewed in the task library.
- 3D point cloud reconstruction results can now be displayed according to altitude
- Major upgrades to the aerotriangulation reconstruction speed of the non-gimbal camera images
- Optimized the reconstruction effect of ZENMUSE P1 or other high-resolution images
- Optimized the accuracy of RTK-enabled real-time reconstruction models

- Modify the upper limit of agricultural application route height setting to 30 meters

【 Fixes 】

- Fixed the issue where only the results of a single area were output when there were more than 1 connected component in the aerotriangulation results
- Fixed the issue of display offset due to incorrect order of latitude and longitude when the point cloud results of a geodetic coordinate system were output in the LAS format
- Fixed the issue of base map offset when 2D reconstruction results were scaled in CAD or Cass software
- Fixed the issue of incorrect GCP mark accuracy when the Windows system scaling setting is not at 100%

【 Note 】

- Agras T16 or T20 users should use Agras drones with firmware version 02.03.0303 higher to access Agricultural Applications.
- DJI Terra Permanent License update and maintenance fees: Users can update DJI Terra to any version released within the first year of use free of charge, starting from when DJI Terra is bound with a device. From the second year onward, users must pay for version updates annually.
- The Detailed Inspection function is now compatible with DJI Pilot V1.9.0R or later versions.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro

- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2021- 05- 19

Version: 2.3.3

Update details

【 New 】

- Supports real-time 3D model reconstruction (Phantom 4 RTK, Phantom 4 Pro V2.0, and Phantom 4 Pro + V2.0 only)
- Supports displaying aerotriangulation output for multiple locations simultaneously
- Supports setting the height system to JGD2011
- Adds Tianditu as a map source

【 Optimization 】

- Supports changing output coordinate system after reconstruction is finished
- Supports adjusting the size of points in 3D point cloud

【 Fixes 】

- Fixes an issue where aerotriangulation optimization in GCP management is not constrained with image POS data

【 Note 】

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- The Detailed Inspection function is now compatible with DJI Pilot V1.9.0R or later versions.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2021- 02- 04

Version: 2.3.2

Update details

【 Fixes 】

- Fixes an issue where certain AMD processors failed to bind with the authorization license

【 Note 】

- Use Agras drones with firmware version 02.03.0303 higher to access Agricultural Applications.

- To provide you with a better user experience, the background server of DJI Terra will be updated on December 31, 2020. At that time, versions of DJI Terra earlier than V2.3.0 will not be able to connect to the server normally and all paid functions will be unavailable. Please update your DJI Terra to the latest version promptly so that your work will not be affected.
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- The Detailed Inspection function is now compatible with DJI Pilot V1.9.0R or later versions.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2020- 12- 11

Version: 2.3.1

Update details

【 New 】

- Supports offline login.
- Supports radiometric correction (P4 Multispectral only).
- Adds a new function where a camera calibration file is generated when reconstruction is complete for photos taken with the Zenmuse P1 camera.

【 Optimization 】

- Supports exporting to multiple formats after a reconstruction mission is complete.
- Supports point cloud colorization by elevation.
- Adds a function for generating prescriptions map using leveling variable rate strategy.
- Supports 2D reconstruction in TFW and PRJ.
- Adds support for separating flight missions from reconstruction missions.
- Supports a maximum gimbal pitch of 30° for waypoint missions and detailed inspection missions.
- Adds a search function to the detailed inspection model bank.
- Merges the field reconstruction semantic labels "field" and "other" into one label, "other."
- Semantic segmentation results editing page supports displaying field boundaries in Agricultural Applications.
- Field mode supports generating flight routes for concave polygon fields.
- Anti-Collision Safety Distance is set to 3.5 m and Auto Bypass is enabled by default in Agricultural Applications.
- Flight route width in Fruit Tree mode changes to a range of 1.5–10 m.

【 Fixes 】

- Fixes an issue where activation licenses could not be viewed due to inconsistencies between the server time and local time.

【 Note 】

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- The Detailed Inspection function is now compatible with DJI Pilot V1.9.0R or later versions.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0

- Phantom 4 Advanced

Release Date: 2020- 11- 26

Version: 2.3.0

Update details

【 New 】

- Supports route planning for detailed inspection missions.
- Supports ROI reconstruction.
- Supports reconstruction with multiple graphics cards.
- Supports reconstruction for I3S format models.
- Supports exporting KML files for Waypoints flight missions or detailed inspections to DJI Pilot.
- Supports Russian, Korean, Spanish, French, and German language options.
- Supports displaying road maps.

【 Optimization 】

- Supports calculating the amount of pesticide used per mu for the total area of the selected field.
- Supports setting the size of the grid on the prescription map.
- Removes the route length limitation for semi-automated or manual route planning in Fruit Tree mode.
- The prescription map in Agriculture Applications is now compatible with T-series Agras using a spreading system.
- 2D multispectral reconstruction now supports only importing band photos and RGB

photos required by a certain vegetation index.

【 Fixes 】

- Fixes a crashing issue caused by computers with large RAM, but small VRAM not using enough VRAM.
- Fixes an issue where the ground cannot be reconstructed at heights above 500 m.
- Fixes an issue where the settings of the output coordinate system and POS coordinate system were not synchronized automatically.
- Fixes an issue where height settings of the output coordinate system cannot be modified during the reconstruction process.
- Fixes an issue where "Output coordinate system error" is displayed when calibration is started, the installation directory of Terra contains Chinese characters, and the height of the output coordinate system is set to EGM96.
- Fixes an issue where measurement results are inaccurate when output coordinate system is set as arbitrary coordinate system for 2D reconstruction.
- Fixes an issue related to incomplete reconstructions in strip scenarios such as oil pipelines, roads, and rivers (for data not collected by Phantom 4 RTK).

【 Note 】

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- The Detailed Inspection function is now compatible with DJI Pilot V1.9.0R or later versions.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2020- 08- 28

Version: 2.2.1

Update details

【 New 】

- Adds square kilometers (km²) as a unit of measurement

【 Optimization 】

- Removes the upper limit on the number of waypoints on an agricultural flight mission
- Setting calibration point at takeoff is no longer required for Agras drones
- Removes the upper limit on the number of calibration points

- Adds on/off switch for displaying auto-identified results at results correction page in agriculture applications

【 Fixes 】

- Fixes an issue where the Agriculture Applications UI turns green for users with a basic license version
- Fixed an issue in ".PNTS" point cloud, which causes rendering lags in DJI Terra and possibly in other 3rd party software
- Fixes an issue with the cursor being obstructed under the following scenario: User enters auto-identified results correction and enables the camera position display when using the Distance Interval (Auto) or Manual options for route planning under Fruit Tree > Continuous Spraying

【 Note 】

- Agricultural functions need to be used with firmware 02.03.02xx and above of Agras drones

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2020- 05- 27

Version: 2.2.0

Update details

【 New 】

- Adds support for importing POS data (with Height Offset settings)
- Adds support for exporting Aerotriangulation results (in DJI Terra format and XML)
- Adds support for large-scale reconstruction (Add 300–400 photos for every 1GB of additional RAM)
- Adds support for 3D reconstruction of power lines
- Adds support for model reconstruction for the 5-camera oblique system
- Adds support for SuperMap point cloud reconstruction in S3MB
- Adds semantic segmentation and automatic flight route generation in 2D field reconstruction
- 2D multispectral reconstruction supports generating semantic maps, prescription maps, and flight routes with varied spraying amounts
- Adds support for Fruit Tree mode 3.0, which supports manual planning, semi-automated planning, and Terrain Follow Accuracy adjustment
- Adds support for uploading field info to the DJI Agras Management Platform for users outside Mainland China

【 Optimization 】

- Adds shortcuts for certain functions
- Optimizes the field planning user interface
- Optimizes the Spot Spraying semantic display

【 Fixes 】

- Fixes an issue where exported annotation and measurement results are displayed as zero

【 Note 】

- 2D multispectral reconstruction requires importing photos from 6 bands

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2020- 04- 09

Version: 2.1.4

Update details

【 New 】

- Added Japanese as a supported language.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0

- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2020- 03- 30

Version: 2.1.3

Update details

【 Fixes 】

- Fixes the issue with being unable to use Coordinate System search function.
- Fixes the issue with deviated location information when field plans were exported for areas outside Mainland China.
- Fixes the issue where EPS software was unable to function normally when OSGB models were imported.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2020- 01- 02

Version: 2.1.2

Update details

【 New 】

- Supports S3MB model format for 3D reconstruction.
- Supports checking the original images of the captured area on the Modify Result page in Fruit Tree mode.

【 Optimization 】

- Adds input fields for route parameters.
- Adds support for switching between 2D and 3D base maps in real time 3D point cloud.
- Supports adding waypoint actions to all waypoints in a flight route task (starting/stopping video recordings not included).
- Supports importing images by folder.
- Adds fitted area for 3D model to Annotation and Measurement.
- Adds support for withdrawing modified results in Fruit Tree mode.
- Optimizes result modification methods in Fruit Tree mode.
- Supports importing and exporting multiple tasks.

【 Fixes 】

- Fixes the issue caused by single control point when optimizing triangulation results.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0

- Phantom 4 Advanced

Release Date: 2019- 11- 28

Version: 2.1.1

Update details

【 Highlights 】

- Adds support to 2D Multispectral Reconstruction

【 Optimization 】

- Changes the identification color of telegraph poles to red for fruit tree missions.
- Graphics cards with Turing GPU architecture supports 2D map reconstruction in Fruit Tree mapping scene.

【 Fixes 】

- Fixes specific issues and improves overall software quality.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

【 Note 】

- 2D Multispectral reconstruction is only available for multispectral images captured by P4 Multispectral.

- Changes the identification color of telegraph poles to red is only available for fruit tree missions generated in V2.1.1 and later versions.

Release Date: 2019- 09- 24

Version: 2.1.0

Update details

【 Highlights 】

- Adds support to corridor flight route mission.
- Adds support to Real-time 3D point cloud.

【 New 】

- Adds support to GCP management.
- Supports Output Coordinate Systems selection.
- Adds support to the output and check of 3D point cloud.
- Supports 3D reconstruction circling scenario.
- Supports OSGB, PLY, and OBJ formats for 3D reconstruction.

【 Optimization 】

- Doubles the 2D reconstruction speed.
- Supports the progress checking for reconstruction missions in mission library.
- Supports in-order multi-mission reconstruction.
- Supports searching for Mission Library
- Adds the low lit exposure scenario for Shutter Priority.

【 Supported Devices 】

- Phantom 4

- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

【 Note 】

- Real-time 3D Point Cloud is only available for Phantom 4 RTK (Remote Controller), Phantom 4 Pro V2.0, and Phantom 4 Pro+V2.0.

Release Date: 2019- 09- 16

Version: 2.0.4

Update details

【 Fixes 】

- Fixes the issue where the spraying toggle is located incorrectly for some scenarios in fruit tree mode.
- Fixes the issue where the flight route in some scenarios of fruit tree mode is different from that displayed in the MG app.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0

- Phantom 4 Advanced

Release Date: 2019- 07- 24

Version: 2.0.3

Update details

【 Highlights 】

- Supports auto identification for tree crown center and spraying tasks for fixed points in fruit tree tasks.
- Auto-identified results can now be modified for fruit tree tasks.

【 New 】

- Supports configuring exposure compensation parameters for shutter priority.
- Supports selecting export content when exporting tasks.
- Supports executing any flight route tasks for oblique photography tasks.

【 Optimization 】

- Supports license 7-day expiration reminder.
- Optimizes task library user experience.
- Supports waypoint switch shortcuts (Ctrl+left/right button) for waypoint tasks.
- The minimum flight speed of all flight route tasks are adjusted to 0.2 m/s.

【 Fixes 】

- Fixed the issue where the data collection overlapping rate may not be consistent after the task is resumed from the break point.

【 Supported Devices 】

- Phantom 4

- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2019- 07- 02

Version: 2.0.2

Update details

【 Fixes 】

- Fixes flight records file errors.
- Fixes flight mission saving errors in Dubai region.
- Fixes GEO zones display error in London.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2019- 05- 24

Version: 2.0.1

Update details

【 New 】

- Supports fruit tree missions uploading to DJI Agras Management System (only available in Mainland China).

【 Fixes 】

- Fixes account permission issues.
- Fixes searching errors for Google Map.
- Fixes reconstruction errors for fruit tree mission placed in southern and western hemispheres.

【 Supported Devices 】

- Phantom 4
- Phantom 4 Pro
- Phantom 4 RTK (Remote Controller)
- Phantom 4 Pro V2.0
- Phantom 4 Pro + V2.0
- Phantom 4 Advanced

Release Date: 2019- 05- 06

Version: 2.0.0

Update details

【 Highlights 】

- Introduces an Oblique Photography Mission for comprehensive data collection within the mission area.

- Supports 3D model reconstruction in OSGB, B3DM, and PLY formats.
- Supports adaptive subdivision for 3D reconstruction to optimize RAM consumption.
- Supports Annotation and Measurement features for coordinate, distance, area, and volume measurement.
- Displays Camera Pose for viewing the corresponding positions of all capture points and selected points.
- Supports DSM output for 2D map reconstruction.
- Includes Quality Report for reconstruction (for details, see How to read Quality Report).
- Supports 3D mission planning for 3D waypoint flight missions based on 3D model.
- Includes new feature for binding reconstruction results to waypoint missions.
- Supports Timed Shot and aircraft yaw angle adjustment for waypoint missions.
- Supports viewing and managing Unlocking Licenses.
- Supports auto flight route generation based on fruit tree auto recognition result.

【 Optimization 】

- Supports 2D map reconstruction based on UTM projection.
- Optimizes RAM consumption for 2D map reconstructions to process more images.
- Optimizes image definition of DOM to ensure the details of original images are maintained as accurately as possible.
- Supports direct access to the reconstruction page through the mapping or oblique photography mission editing screens.
- Improves method for adding images to reconstruction missions.
- Supports new feature for displaying and hiding capture points on 2D maps.

- Supports shortcuts (Ctrl + Alt + F) for quick access to the mission folder.
- Supports setting negative relative height values for better data collection in areas with a higher altitude than the takeoff point.
- Improves FPV stuttering issues during missions.

【 Fixes 】

- Fixes specific issues and improves overall software quality.

【 Supported Devices 】

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- Phantom 4 Pro
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- Phantom 4 Advanced

【 Note 】

- To share mapping missions from DJI Terra V1.3.0 with other users, open the mission with version 2.0.0 and then export it for sharing.

Release Date: 2019- 03- 28

For more information, please visit <https://www.dji.com/dji-terra>.