DJI Terra Reconstruction Error and Operation Suggestions (Frequent updates are available)

In case of an error, there are three ways to troubleshoot errors by yourself:

1. Perform operations based on the instructions prompted in the dialog box (applicable to v3.5.0 and later versions).
2. Click the Export Log button on the pop-up dialog box (applicable to v3.5.0 and later versions) to export the error log of the mission to the selected folder (file name of the error log: mission name_error.log). Search the keyword [exit with] and the number after the keyword is the error code. Perform operations provided in the following table based on error codes.
3. Find time log of the mission, search the keyword [runPicMapGen exit], and the number after the keyword is the error code. Perform operations provided in the following table based on error codes. The log can be obtained in the following ways:
   (1) Open storage path: C:\Users\<Computer User Name>\AppData\Roaming\DJI Terra\log
   (2) Run DJI Terra and open the log storage path via the shortcut Ctrl+Alt+L.

If the issue persists after using the above three methods, contact DJI Support.

Error code	Error message	Operation suggestion
General		
0001	No usage permissions for this function	1. Use the license containing this feature
0004	NVIDIA graphics card (4GB or above) required	1. Please check if the graphics card configuration of the computer meets the requirements
1001	Invalid permissions	1. Check whether the license is successfully bound; 2. Check whether the license is within the validity period.
1002	JSON file read error	1. Check the task JSON file input, check whether each keyword is completely consistent with the sample document, and whether all necessary fields exist; 2. Check the message prompt of the last output of the log file.
1003	NVIDIA graphics card not detected	1. If the error prompt is displayed at the beginning of the reconstruction, please check whether the graphics card meets the requirements (refer to the Purchase and Preparation section of DJI Terra FAQs for computer configuration requirements); if the requirements are met, please download the graphics card driver from NVIDIA's official website and upgrade it to the latest version; 2. If the error prompt is displayed after the reconstruction has started for a period of time, try

		planning the region of interest to remove the edge region and perform the reconstruction again.
1004	DMV file read error	1. Perform the reconstruction of Aerotriangulation again
1005	FILE_System_ERROR	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient, and whether the local temporary storage directory space of the worker device is sufficient.
1007	Aerotriangulation block splitting error. Check available memory space or reduce distance to ground/subjects	1. Please check the available memory space or reduce the distance to Ground/Subjects.
2001	Structure from motion (SFM) failed.	1. Check whether the imported image is damaged, and the image thumbnail can be viewed in the folder where the image is stored to check whether the image is abnormal (all black, failure to display, the image seriously overexposed or underexposed); 2. The imported image can not be a thumbnail; 3. Check whether there is a common view area between images to ensure sufficient overlap rate; 4. In case of adding GCPs or image POS data, please check whether the coordinate system is set correctly, whether the marked points of the control point are correct, whether longitude and latitude order is correct, and whether the POS accuracy and control point accuracy are correct (the accuracy setting cannot be 0);
2002	Image correction (distortion and color correction) failed	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient.
2003	Reconstruction densification failed	1. Check if the graphics card has a memory greater than 4 GB; 2. Try planning the region of interest to remove the edge region and perform the reconstruction again.
2004	Grid reconstruction failed	1. Check if the disk space of cache directory and shared directory (cluster) is sufficient; 2. Try planning the region of interest to remove the edge region and perform the reconstruction again.
2005	Scene divide error	1. Try planning the region of interest to remove the edge region and perform the reconstruction again
2006	LOD error	1. Check if the disk space of cache directory is

		sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient, and whether the local temporary storage directory space of the worker device is sufficient; 3. Try planning the region of interest to remove the edge region and perform the reconstruction again.
2007	MVS error	1. Check if the disk space of cache directory is sufficient; 2. Try planning the region of interest to remove the edge region and perform the reconstruction again; 3. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient; 4. Check if the graphics card has a memory greater than 4 GB; 5. Check the quality report of Aerotriangulation and check whether the optimized camera's internal parameters are significantly different from initial internal parameters
2008	Failed to generate XML file	1. Make sure the image data are within the coverage of the XML output coordinate system
3001	Semantic identification error	1. Check if the graphics card has a memory greater than 4GB
3002	Digital Surface Model (DSM) generation failed	1. Check the resource manager of the computer, check the memory usage, and close other memory-occupied programs; 2. Check if the disk space of cache directory is sufficient.
3003	Orthorectification failed	1. Check if the disk space of cache directory is sufficient
3004	Orthophoto mosaic failed	1. Check if the disk space of cache directory is sufficient
3005	Generating 2D map tile failed	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient; 3. Try planning the region of interest to remove the edge region and perform the reconstruction again.
3006	Generating 2D map report failed	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient.
3007	Writing image failed	1. Check if the disk space of cache directory is

		sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient.
3008	Projecting reconstruction output result failed	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient; 3. The region where the reconstruction data are located is not within the coverage of the set projection coordinate system.
3009	Invalid image data	1. The angle between the camera of image and the vertical angle is greater than 15° (35° for V3.1.0 and later versions); 2. If the image data are not of the above types, please check whether the result of Aerotriangulation is abnormal. If so, try the following operations: （1） Check whether the imported image is damaged, and the image thumbnail can be viewed in the folder where the image is stored to check whether the image is abnormal (all black, failure to display, the image seriously overexposed or underexposed); （2） The imported image cannot be a thumbnail; （3） Check whether there is a common view area between images to ensure sufficient overlap rate; （4） In case of adding a GCP or importing custom image POS data, please check whether the coordinate system is set correctly, whether the marked points of the control point are correct, whether longitude and latitude order is correct, and whether the POS accuracy and control point accuracy are correct.
3010	Preprocessing image failed	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient.
4002	Insufficient memory	1. Check the resource manager of the computer, and close other programs occupying the memory; 2. Try planning the region of interest to remove the edge

		region and perform the reconstruction again; 3. LiDAR point cloud processing: Users can try reducing the density of the point cloud, or adjust the point cloud effective distance to reduce the processing of invalid regions.
4003	Insufficient VRAM	1. Check the resource manager of the computer, check the use of the graphics card and memory, and close other programs occupying the video memory; 2. Try planning the region of interest to remove the edge region and perform the reconstruction again.
5001	Output coordinate system error	1. Check if the coordinate system is set correctly; 2. If the image does not have POS information, the result cannot be set to the known coordinate system; 3. If the GCP is used and it is an arbitrary coordinate system, the result should be set to the arbitrary coordinate system; 4. User's customized PRJ file contains a special elevation system, but DJI Terra does not support this elevation system for the moment; 5. The region where the reconstructed data are located is not within the coverage of the set elevation system.
5002	Quality report export error	1. Please check whether the mission folder and the report folder where the quality report is stored have the write permission
6001 / 6002	Abnormal error	1. Check if the disk space of cache directory is sufficient; 2. If it is a cluster reconstruction, check whether the local area network connection is normal, whether the shared directory storage space is sufficient, and whether the local temporary storage directory space of the worker device is sufficient.
LiDAR point cloud reconstruction		
8001	Raw data missing LDR type file or file path error	1. Please check if LDR type file is missing from the raw data
8002	CLI file missing in original data or file path error	1. Please check if CLI type file is missing from the raw data
8007	The pose data is abnormal, please check the base station data and RTK data, and perform calibration flight before and after collecting the data	1. Check whether the base station data and RTK data are missing; 2. Calibrate the flight before and after data collection.
8008	Optimizing LiDAR point cloud accuracy failed	1. Try increasing the data collection overlap rate before data processing
8009	File read and write error	1. Check if the disk space of cache directory is sufficient
8010	CLC file missing in original data or file	1. Please check if CLC type file is missing from the raw

	path error	data
8012	Zenmuse L1 calibration failed. Insufficient number of images	1. Please make sure the number of images imported is greater than 3
8015	Zenmuse L1 calibration failed. Different device data or several subfolders in the same imported folder currently not supported	1. Import of data from multiple devices in the same folder or folder containing multiple folders is not supported for the moment
8020	Error in parsing the base station data file to the renix format	1. Please contact DJI Support
8022	Attitude initialization failed	1. Please calibrate the flight before and after data collection
8027	Precision optimization of LiDAR point cloud failed	1. Try increasing the data collection overlap rate before data processing
8028	File read/write abnormal	1. Check if the disk space of cache directory is sufficient;
8029	File path error or the raw data is missing CLC type file	1. Please check if CLC type file is missing from the raw data
8030	Error of CLC type file format for raw data	1. Please check if CLC type file is missing from the raw data
8031	Zenmuse L1 self-calibration failed: Insufficient number of images in raw data	1. Please make sure the number of images imported is greater than 3
8102	Base station data file missing in original data. Check if any of the following files are missing: RTB, OEM, RINEX, RTCM 3, and UBX	1. Please check if one of the following format file is missing from raw data: RTB file, OEM file, RINEX file, RTCM 3 file, UBX file
8104	RTK file missing in original data or file path error	1. Please check if RTK type file is missing from the raw data
8108	Parsing base station data file failed. Make sure one of the following formats is used: RTB, OEM, RINEX, RTCM 3, or UBX	1. Check if the base station data file is in one of the following formats: RTB file, OEM file, RINEX file, RTCM 3 file, UBX file
8122	IMU file missing in original data or file path error. Check if file is missing	1. Please check if IMU type file is missing from the raw data
8124	RTL file missing in original data or file path error. Check if file is missing	1. Please check if RTL type file is missing from the raw data
8133	Orientation initialization failed. Perform Calibration Flight before and after data collection	1. Please calibrate the flight before and after data collection
Cluster Reconstruction		
1006	JPEG images required for reconstruction	1. Image cannot be synced. Please check whether the local area network connection is normal, and whether the shared directory storage space is sufficient
	No available worker device	1. Make sure that there are worker devices in the LAN

7001		that are enabled and available; 2. Refresh the worker device list in the cluster reconstruction device list of the control device to ensure that the worker device can be searched, and check it and apply it for reconstruction; 3. If the firewall is enabled, make sure that DJIPicMapGen.exe has the local area network (LAN) access permission in the firewall settings.
7002	Unable to visit control device shared directory. Check device connection	1. Check the LAN connection to ensure that the control device can access the shared directory normally
7003	Worker device disconnected	1. Check whether the LAN connection is stable. If the problem occurs frequently, it is recommended to replace the network cable
7004	File folder not found	1. Check if the shared directory set by the control device is properly accessible on the worker device (the mapped drive letter path is not available for the moment)
7005	Unable to write file folder	1. Check if the shared folder has the write permission enabled
7703	Searching for worker device. Port error	1. Check if the control device has the write permission for the shared directory