

Installing TOPODRONE LiDAR on DJI Matrice 300 / M350

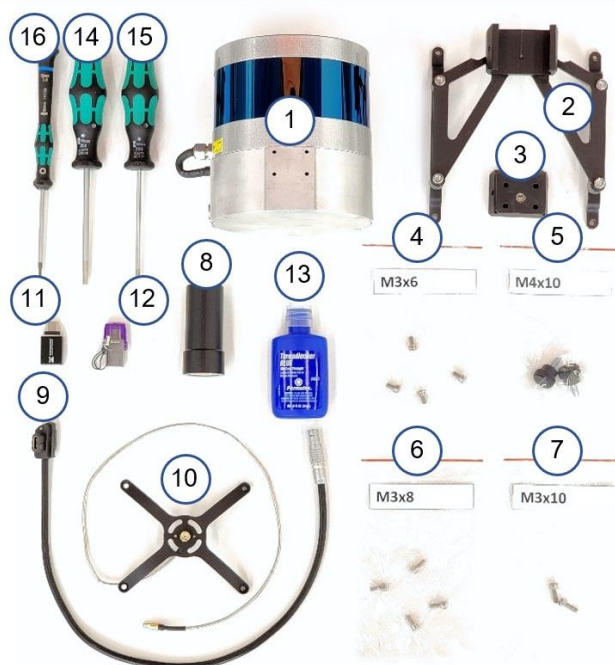
The following components and tools are required for installation:

Version 1, powered by SkyPort connector



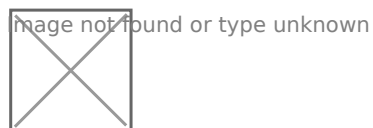
1. TOPODRONE LiDAR
2. Mounting pad with dampers
3. Dovetail mount
4. A set of mounting screws M3x6
5. A set of mounting screws M4x10
6. A set of mounting screws M3x8
7. A set of mounting screws M3x10
8. Helix antenna
9. LEMO 6 PIN - SkyPort Cable
10. Mounting the "spider" antenna with a cable
11. USB Type-C OTG Adapter
12. USB Type-C / USB Flash Drive
13. Thread lock "Blue"
14. 2.5mm hex screwdriver *

Version 2, powered by Type-C connector

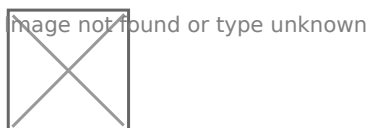


1. TOPODRONE LiDAR
2. Mounting pad with dampers
3. Dovetail mount
4. A set of mounting screws M3x6
5. A set of mounting screws M4x10
6. A set of mounting screws M3x8
7. A set of mounting screws M3x10
8. Spiral antenna
9. LEMO 6 PIN - USB Type-C Cable
10. Mounting the "spider" antenna with a cable
11. USB Type-C OTG Adapter
12. New USB Type-C/USB Adapter
13. Thread lock "Blue"
14. 2.5mm hex screwdriver*
15. Phillips Screwdriver*
16. 1.5mm Hex Screwdriver*

* Not included with the TOPODRONE LiDAR.



Step 1. Remove the drone's cradle from the case



Step 2. Install the cradle on the drone



Step 3. Flip the DJI 300 drone



Step 4. Using a 2.5mm Hex screwdriver , unscrew the two black screws and set them aside



Important! Use the thread retainer in this step! Tighten the screws tightly during installation.



Step 8. (Execution 1). Remove the cover from the SkyPort connector of the LEMO 6 PIN – SkyPort cable



Step 8. (Execution 2). Using a phillips screwdriver, unscrew the 2 screws of the USB Type-C cover



Step 11. Turn over the DJI 300 RTK, remove the bed



Important! Use the thread retainer in this step! Tighten the screws tightly during installation.



Step 16. Install the dovetail mount and tighten the M3x8 screws with a screwdriver



Step 5. Install the mounting pad on the bottom of the drone



Step 7. Using a 2.5mm Hex screwdriver , screw in the 2 black screws obtained in step 4



Step 9. (Execution 1). Remove the cover from the SkyPort connector of the drone



Step 9. (Execution 2). Install the USB Type-C cable connector into the drone, following the key pattern



Step 12. Install the "spider" type antenna mount on the top of the drone



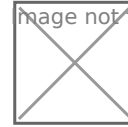
Step 14. Lay the cable along the housing as shown in the photo



Important! Use the thread retainer in this step! Tighten the screws tightly during installation.



Step 6. Using a 2.5mm Hex screwdriver , screw in 2 M3 x 10 screws



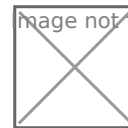
Important! Use the thread retainer in this step! Tighten the screws tightly during installation.



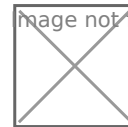
Step 10. (Execution 1). Connect the cable to the SkyPort connector of the drone



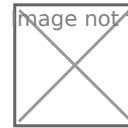
Step 10. (Execution 2). Using a 1.5mm hex screwdriver, tighten the locking screw



Step 13. Secure the mount using M3x6 screws and a 2.5mm Hex screwdriver.



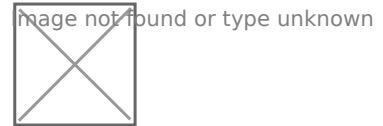
Step 15. Put the TOPODRONE LiDAR on the drone bed, the antenna connector should be on top



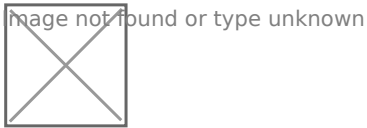
Step 17. Install the TOPODRONE LiDAR on the quick-release mount

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It is recommended to install LiDAR from front to back

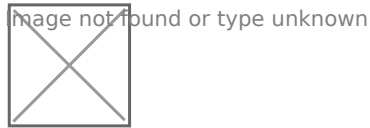
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Step 18. Screw in the locking wing screw



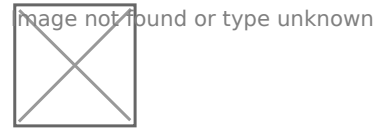
Шаг 19. Винт должен быть закручен плотно, но без чрезмерного усилия



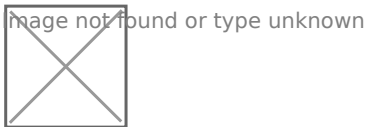
Шаг 20. Подключите антенный разъем к лазерному сканеру



После подключения антенного разъема он должен выглядеть как на фото



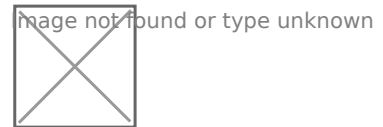
Step 19. The screw must be screwed tightly, but without excessive force



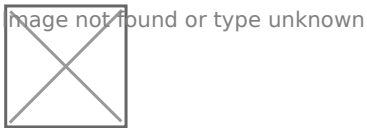
After connecting the power connector, it should look like in the photo



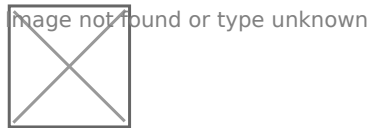
Step 22. Screw the GNSS antenna onto the spider-type mounting connector.



The GNSS antenna should be twisted tightly, but without excessive force



Step 23. In order not to lose the protective caps, you can connect them together



Step 24. The drone assembly with TOPODRONE LiDAR looks like this



You can start performing ALS

* Due to the partial overlap of the sensors, the use of a lower visual positioning system with TOPODRONE LiDAR installed is not recommended. It is recommended to land drones during ALS in manual mode to reduce the impact on the landing gear and TOPODRONE LiDAR during landing. The manufacturer is not responsible for the stability of operation of the DJM 300 RTK drone with the lower visual positioning sensors turned on.

Revision #6

Created 24 October 2024 07:00:08 by TOPODRONE SUPPORT

Updated 23 December 2024 12:43:58 by Tatiana