

TOPODRONE LiDAR to backpack installation

To install the TOPODRONE LiDAR on the backpack, you need the following components included in the package:

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1. TOPODRONE LiDAR - 1 pc.
2. TOPODRONE Backpack - 1 pc.
3. Backpack LiDAR mount with antenna cable - 1 pc.
4. LiDAR mount spacer - 1 pc.
5. GNSS Antenna - 1 pc.
6. Power Bank - 1 pc.
7. LEMO 6 PIN - USB Type-C power cable - 1 pc.
8. Pole (30 cm) - 1 pc.
9. Screw M3x8 - 4 pc.
10. Screw M4x8 - 1 pc.
11. Screw M5x8 - 1 pc.
12. Screw 5/8" - 11 UNC x 3/4" - 1 pc.
13. Hex 2.5 screwdriver - 1 pc.
14. Hex 3 screwdriver - 1 pc.
15. Hex 4 screwdriver - 1 pc.

It is strongly recommended to use a protective soft cover for the TOPODRONE LiDAR to avoid the risk of damaging the laser scanning lens! For better clarity, in the photos shown, the TOPODRONE LiDAR is shown without the case.

To install the TOPODRONE LiDAR on the backpack, follow the steps below:

1. Place the TOPODRONE LiDAR **(1)** on a flat surface as shown in the photo.

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2. Using a Hex M2.5 screwdriver **(13)** and M3x8 screws **(9)**, install the laser scanner mount adapter **(4)** as shown in the photo. [3.jpg](#) not found or type unknown
3. Manually screw the GNSS antenna **(5)** onto the Backpack Mount with antenna cable **(3)** using a 5/8" - 11 UNC x 3/4" screw **(12)** as shown in the photo.

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4. Connect the antenna cable **(3)** to the GNSS antenna **(5)**, avoiding bends as shown in the photo.

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5. Using a Hex 4 screwdriver **(15)** and an M5x8 screw **(11)**, mount the TOPODRONE LiDAR to the fastening part of the backpack **(3)** without pinching the antenna cable.

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6. Position the TOPODRONE LiDAR on the mount at the required angle and fix it with the M4x8 screw **(10)** using a Hex 3 screwdriver **(14)**.

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7. Connect the antenna connector of the LEMO mount **(3)** to the TOPODRONE LiDAR **(1)**

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8. Screw the pole **(8)** to the backpack attachment **(3)**.

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9. Screw the pole **(8)** to the backpack **(2)** as shown in the photo. The LED of the TOPODRONE LiDAR should be positioned backwards.

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10. Connect the LEMO 6 PIN to USB Type-C power cable **(7)** to the TOPODRONE LiDAR **(1)**.

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11. Connect the LEMO 6 PIN to USB Type-C power cable **(7)** to the Power Bank **(6)** and apply power.

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12. Put the Power Bank **(6)** into the backpack pocket **(2)** and wait for the [TOPODRONE LiDAR \(1\) to turn on and initialize](#). Next - put on the backpack as shown in the photo and start the MLS.

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