

TRIMBLE UX5 LAUNCHER

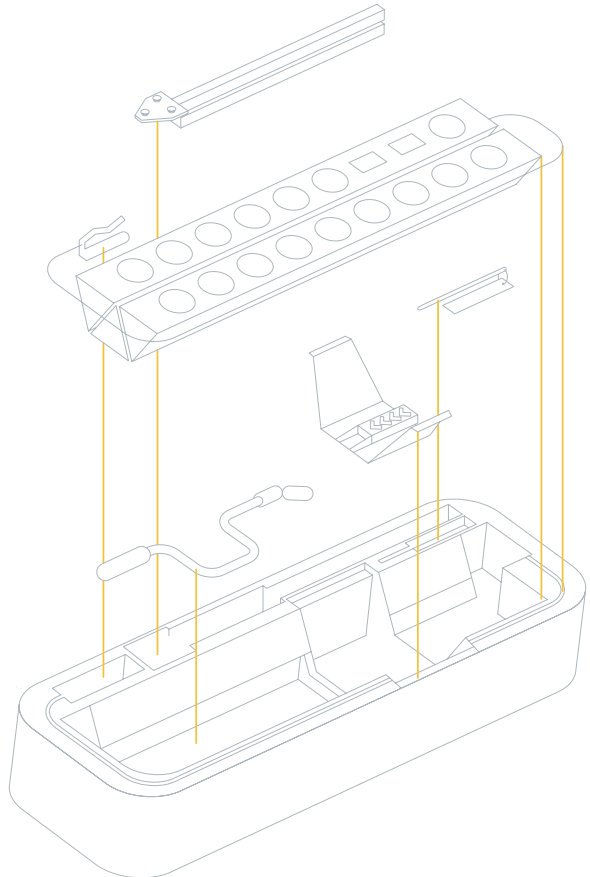
Before you use the Trimble® UX5 launcher, make sure that you have read and understood all safety requirements in this guide.

This guide explains how to:

- Prepare the launcher.
- Use the launcher to launch the Trimble UX5 aerial imaging rover.
- Disassemble the launcher.

Before you head out to the field, make sure the launcher bag contains the following items:

- Safety pin.
- Launch dock with lock pin.
- V-support.
- Crank.
- Launch slide with elastics.



Preparing the launcher

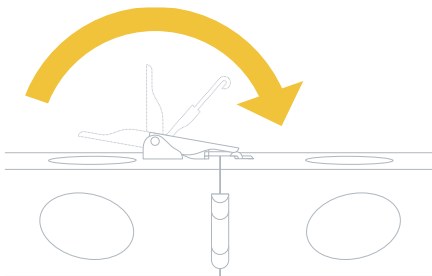
You are prompted to prepare the launcher during the pre-flight checklist.

Step 1: Assemble the launcher

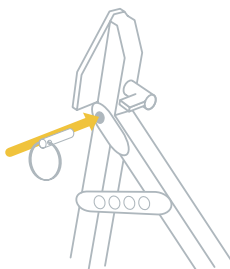
1. Unfold the launch slide.

⚠ CAUTION – Take care when unfolding the launch slide as there are sharp edges that can cause finger cuts.

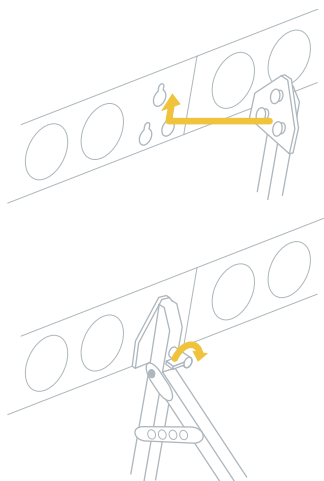
2. Secure each section of the launch slide by lifting the appropriate handle and hooking it into the next section of the launch slide. Close the handles.



3. Unfold and secure the V-support with the lock pin.



4. To attach the V-support to the launch slide, make sure the knob is pointing to the left and then insert the V-support pins in the reserved holes, situated approximately 2/3 of the length of the launch slide. Turn the knob to the right to tighten.



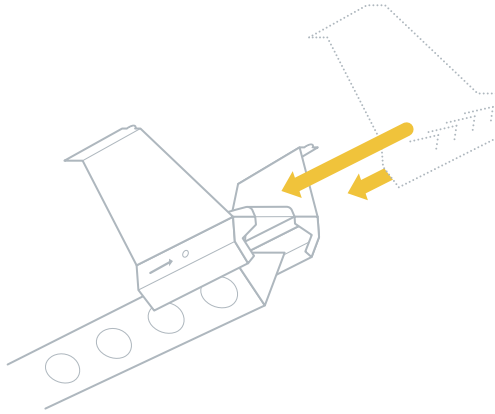
Step 2: Attach launcher cord and launch dock

1. Pull the ends of the launcher cord out of the launch slide so that the cord lies on top of the launcher slide.

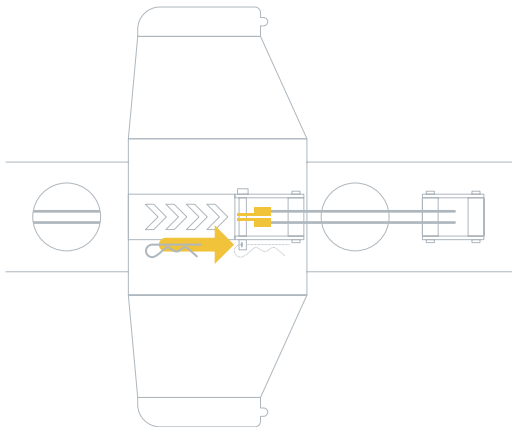
Note – If the launcher cord is blocked while the elastics are not tightened, pull the release handles upward to unblock them.

⚠ CAUTION – Never push the release handles when there is tension on the launcher cord. You will damage the elastics. If there is tension on the launcher cord, see step 1 of “Disassembling the launcher.”

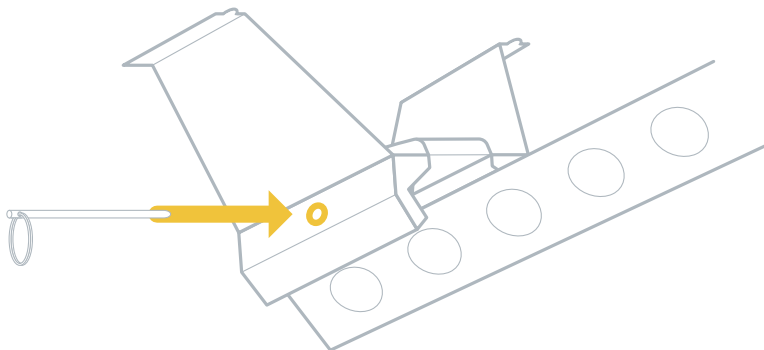
2. Position the launch dock on the end of the launch slide with the arrows pointing in the direction of launch.



3. Slide the launch dock over the ends of the launcher cord.
4. To attach the ends of the launcher cord to the launch dock, remove the lock pin from the launch dock and then slide the lock pin through the holes in the launch dock, attaching the ends of the launcher cord as you do so. Secure the lock pin.



5. Slide the launch dock over the launch hook at the beginning of the launch slide, making sure the launch dock clicks into position. Make sure the trigger is not blocked.
6. Insert the safety pin into the launch dock.

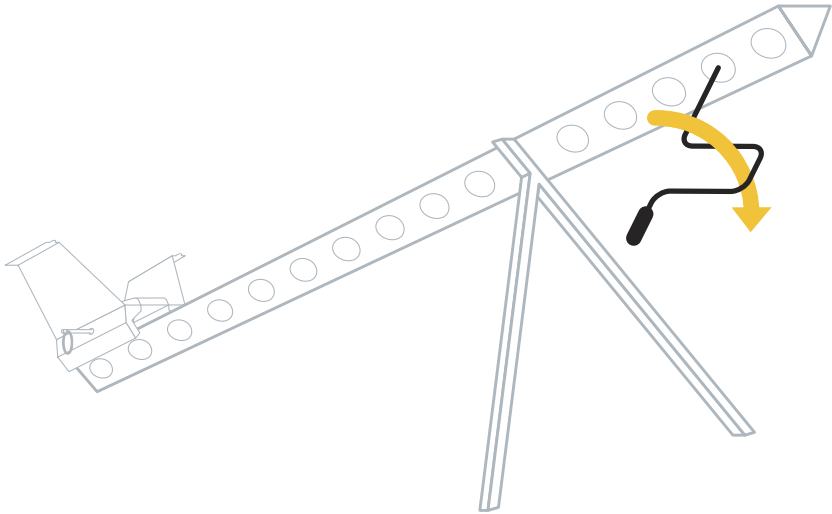


⚠ WARNING – Always keep the safety pin inserted in the launch dock. Remove the safety pin only just before launch. Early removal of the launch pin can result in accidental release of the launcher, causing serious personal injury and damage to the UX5 or launcher.

⚠ CAUTION – Never launch without the UX5 sitting on the dock as it will damage the launch dock. The design of the launcher takes into account the weight of the UX5 sitting on the launch dock.

Step 3: Tighten the launcher cord elastics

1. Position the launcher at the planned takeoff location, with the launch direction pointing into the wind.
2. Insert the crank onto the nut located toward the front end of the launch slide.
3. Stretch the launcher cord using the crank. In normal circumstances, the node between the cord and elastic should be in the middle of the hole where numbered "4" on the launcher.

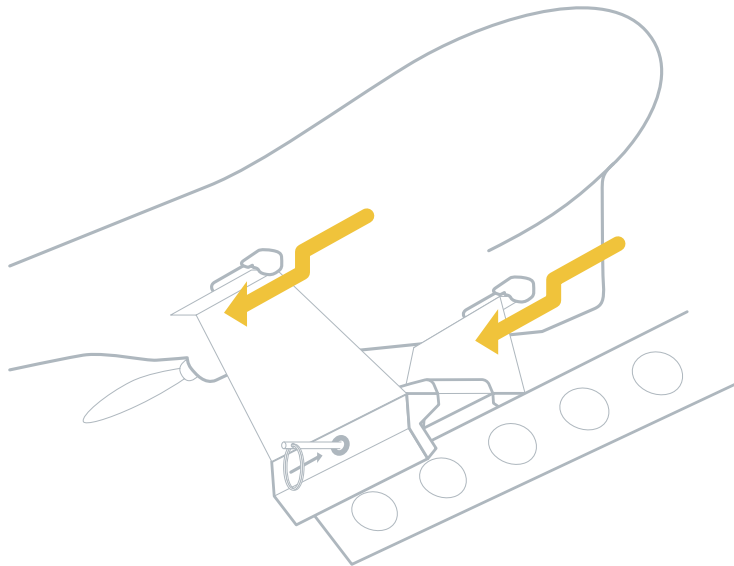


⚠ CAUTION – The launcher cord stretches with every launch. When you can easily reach the last hole when tightening the cord, replace the launcher cord to prevent unsuccessful launches and damage to the launcher or the UX5. For more information, refer to the *Trimble UX5 Aerial Imaging Solution Maintenance Manual*.

Step 4: Place the UX5 onto the launcher

1. Position the UX5 at the front of the launch dock and use your finger tips to guide the launcher slats on the underside of the UX5 onto the lips of the launch dock.


⚠ WARNING – Take care to ensure the UX5 is correctly positioned on the launch dock. An incorrect position can result in launch failure, causing serious personal injury and damage to the rover or launcher.




2. Use the artificial horizon indicator in the Aerial Imaging software to check the pitch and roll of the UX5 on the launch dock. The pitch angle should be between 20° and 30° and the roll angle should be between -5° and 5° . The horizon should be positioned parallel to the UX5 on the artificial horizon indicator. If you need to adjust the horizon, reposition the launcher.

Launching the UX5


1. To remove the safety pin, position yourself behind the launcher, reach carefully under the UX5 and then pull out the safety pin.

 **WARNING** – Always take care to avoid contact with the propeller blades. If the UX5 receives a sudden shock while armed, the motor can unexpectedly start causing the propeller blades to move. Contact with moving propeller blades can result in serious personal injury.

2. Just before launch, perform the following safety checks:
 - Make sure there are no aerial objects inside the zone of operation.
 - Locate the UX5 on the Tablet screen.
 - Make sure both crew members have a clear line of sight to the UX5.
 - Make sure there are no obstacles or people near the front of the launcher.

 **WARNING** – Make sure you complete each of the safety checks listed at this step. Failure to do so could result in serious personal injury and damage to the UX5 or launcher.

3. When you have made sure that everything is clear in front of, above, and behind the launcher, stand behind the launcher and press the launch handle to launch the UX5.

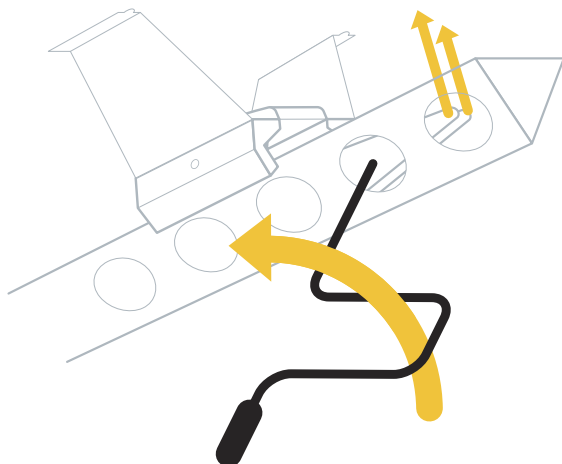
 **CAUTION** – Never launch without the UX5 sitting on the dock as it will damage the launch dock. The design of the launcher takes into account the weight of the UX5 sitting on the launch dock.

4. ***If an obstacle such as a person or animal suddenly appears in the obstacle clearance zone during takeoff***, tap the **FTS** button in the software. The UX5 immediately powers down and returns to the ground. For more information, refer to the *Trimble UX5 Aerial Imaging Solution User Guide*.
5. After launch, release the tension on the launcher cord. Leaving tension on the launcher cord for extended periods can damage the elastics. See step 1 of “Disassembling the launcher.”

Disassembling the launcher

1. If you have not yet released the tension on the launcher cord, then do so now.

To release the tension, release the force with the crank very gently while pulling the release handles in the front of the launcher upward. This is safest done with two people, with one person carefully winding the crank counter-clockwise to counteract the force on the elastics.



2. Remove the lock pin on the launch dock and detach the launcher cord.
3. Using the crank, tighten the launcher cord so that most of the cord is in the launch slide but the end remains out.
4. Slide the launch dock off the front of the launch slide.
5. To detach the V-support, turn the knob upward and then slide the pins out of the holes in the launch slide. Remove the lock pin on the V-support to fold the legs and then reinsert the lock pin.

CAUTION – Take care when folding the V-support legs not to jam or cut fingers.

6. Open the handle fixes on the launch slide and fold the launch slide.
7. Return all of the launcher items to the launcher bag.

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