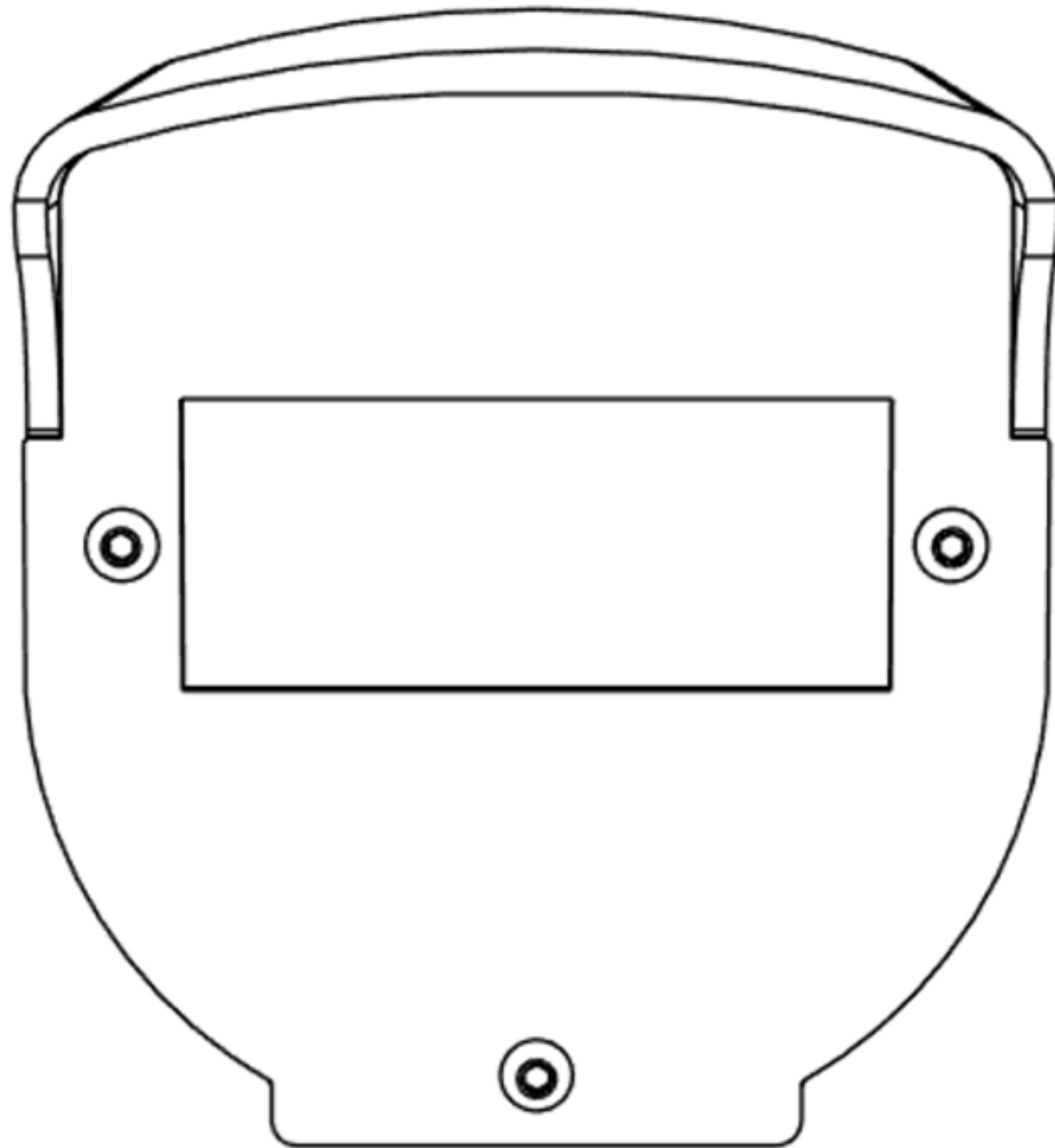


DESKTOP PILOT

Compass

DP-MC-01

User Manual



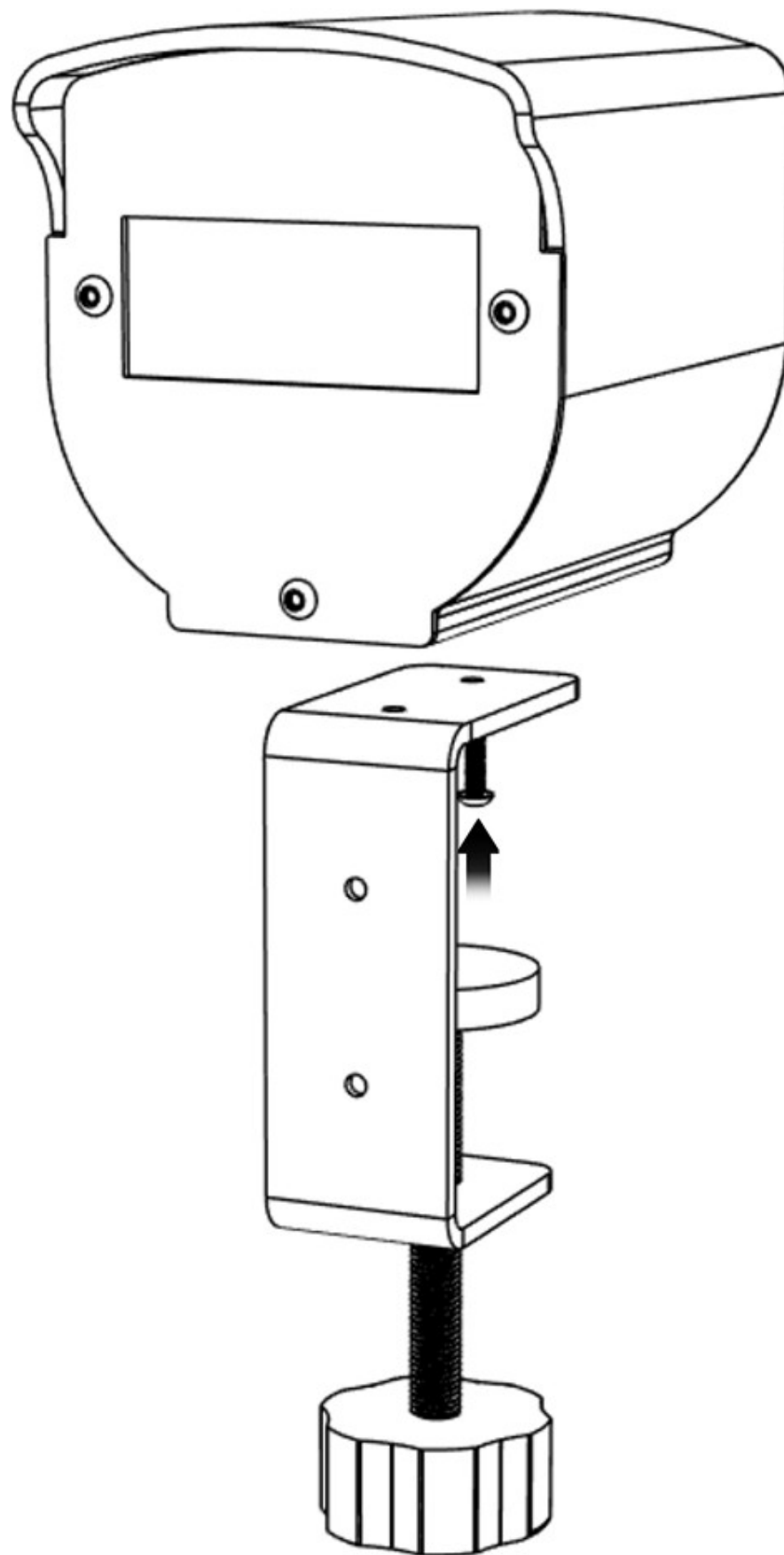
Serial Device

Manual Version: 1.2

MOUNTING OPTIONS

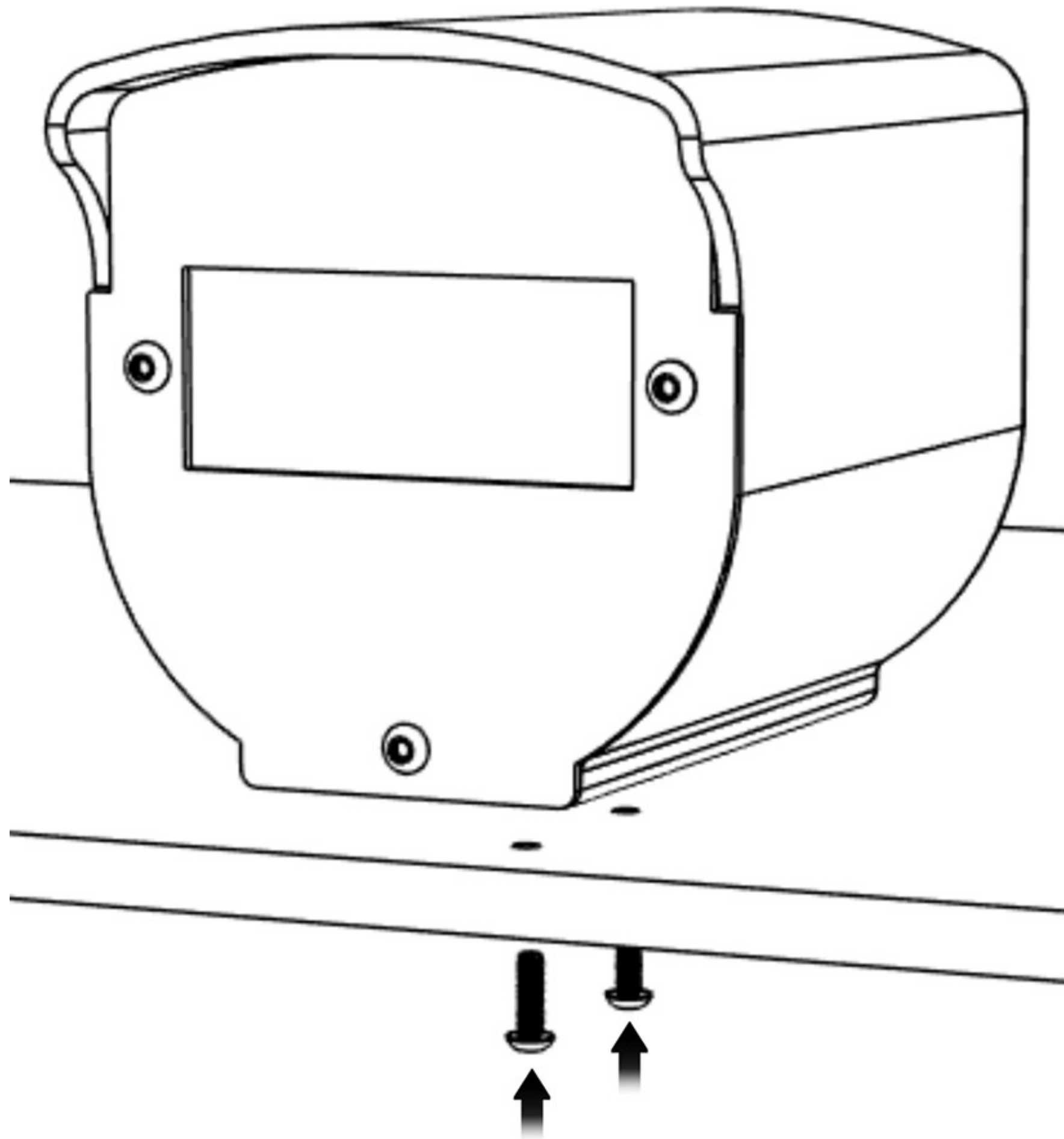
Clamp Mounting

Attach the clamp (sold separately) to the mounting holes on the bottom of the compass using the M3 screws.



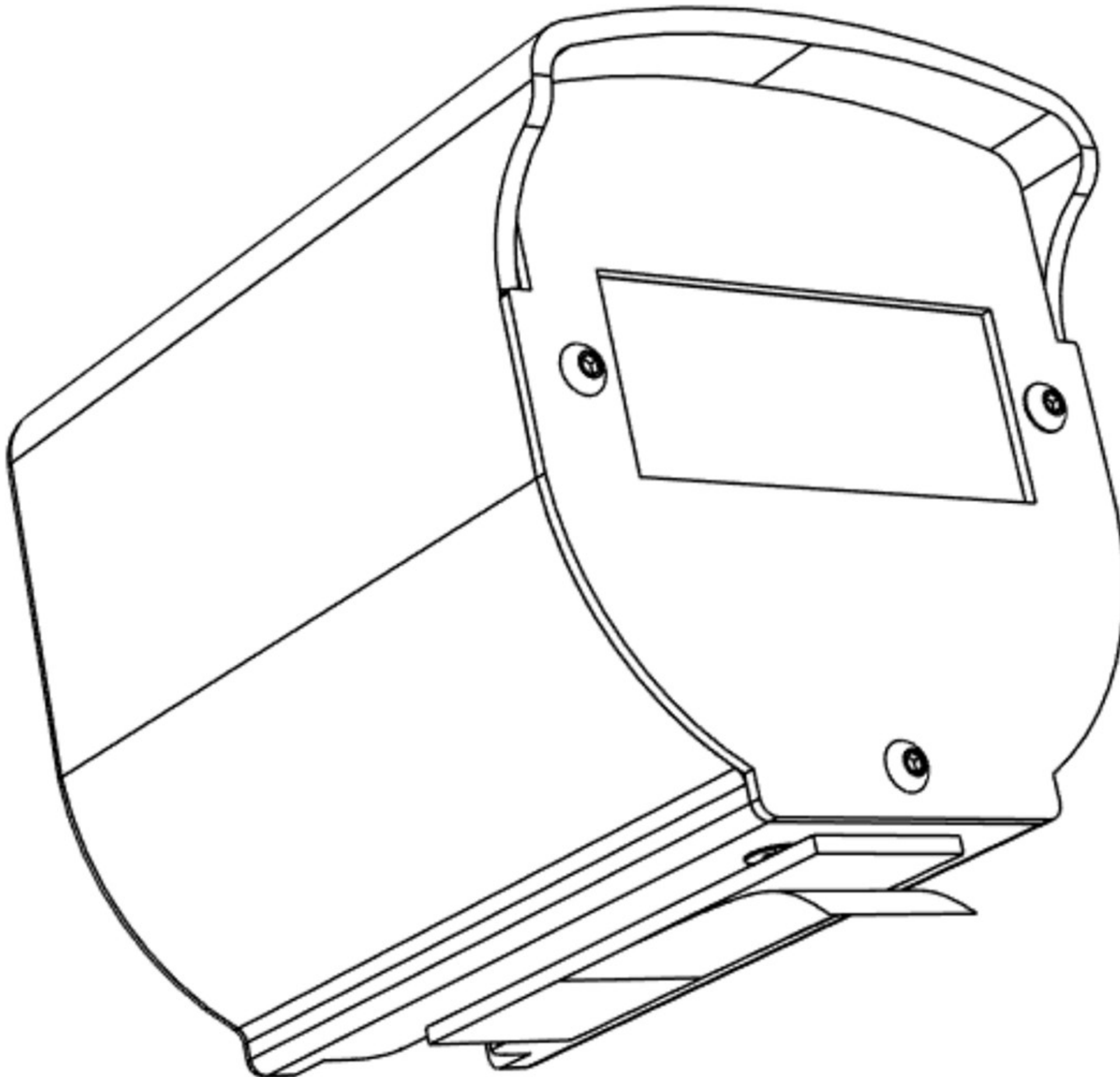
Screw Mounting

Secure the compass directly to the surface using the mounting holes on the base with M3 screws.



Adhesive Mounting

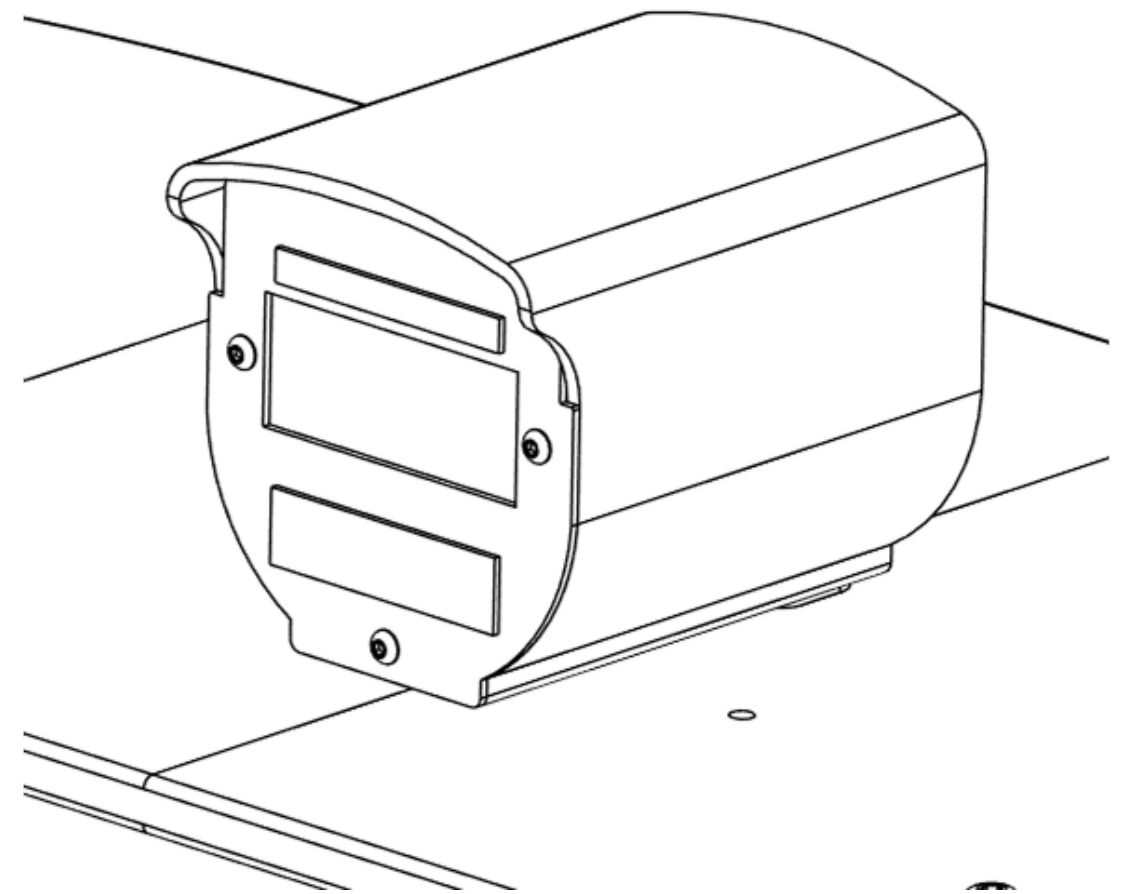
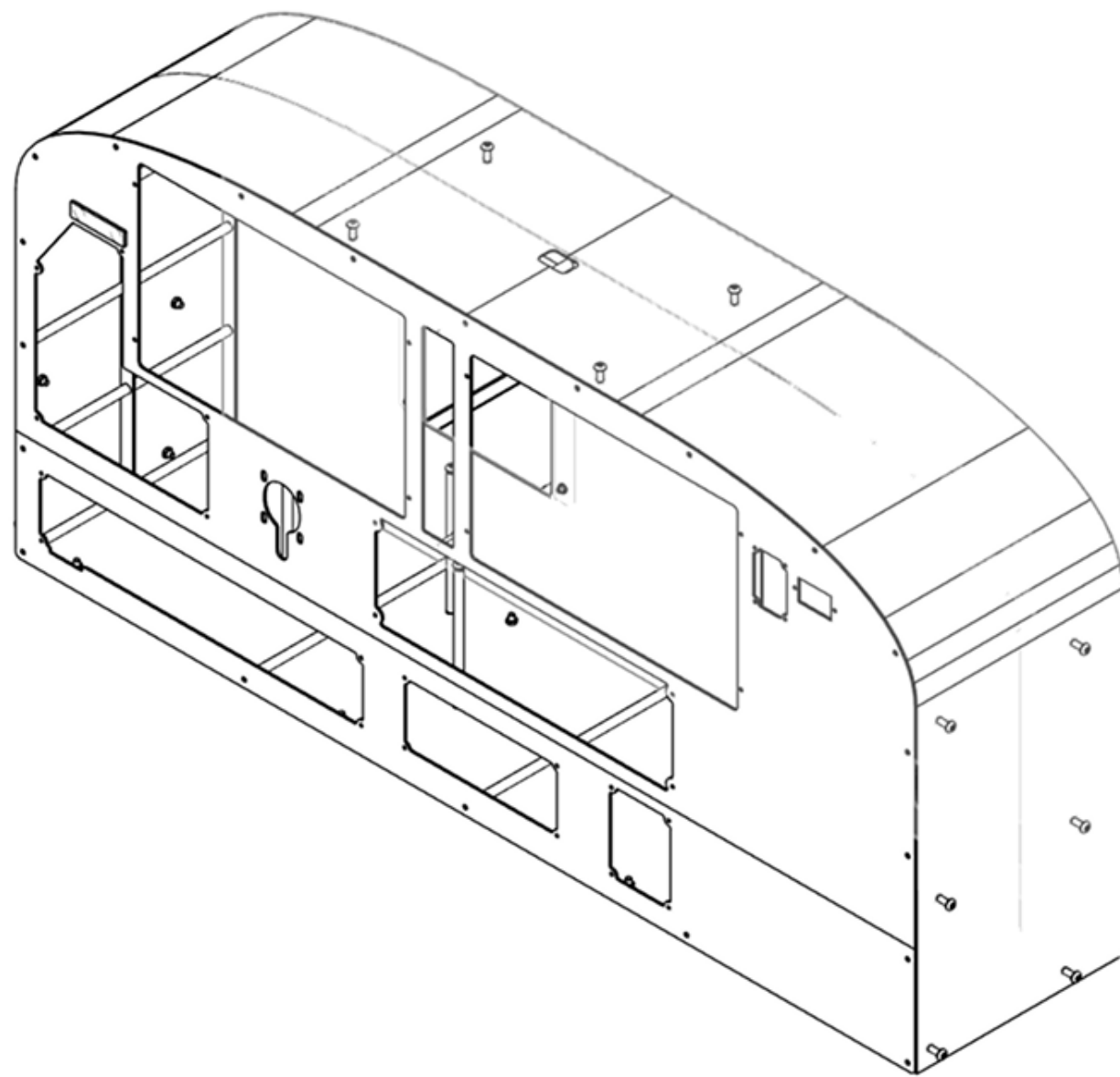
Apply the double-sided tape to the base of the compass, then press the compass firmly onto the surface to secure it in place.



Cabinet Mounting

Route the USB Type-B cable from inside the cabinet through the top hole, then connect it to the compass.

C172 Mounting Cabinet



PRODUCT SPECIFICATIONS

What's in the box?

- Compass
- USB Cable 90° Down Type B to A
- Double-sided VHB Tape

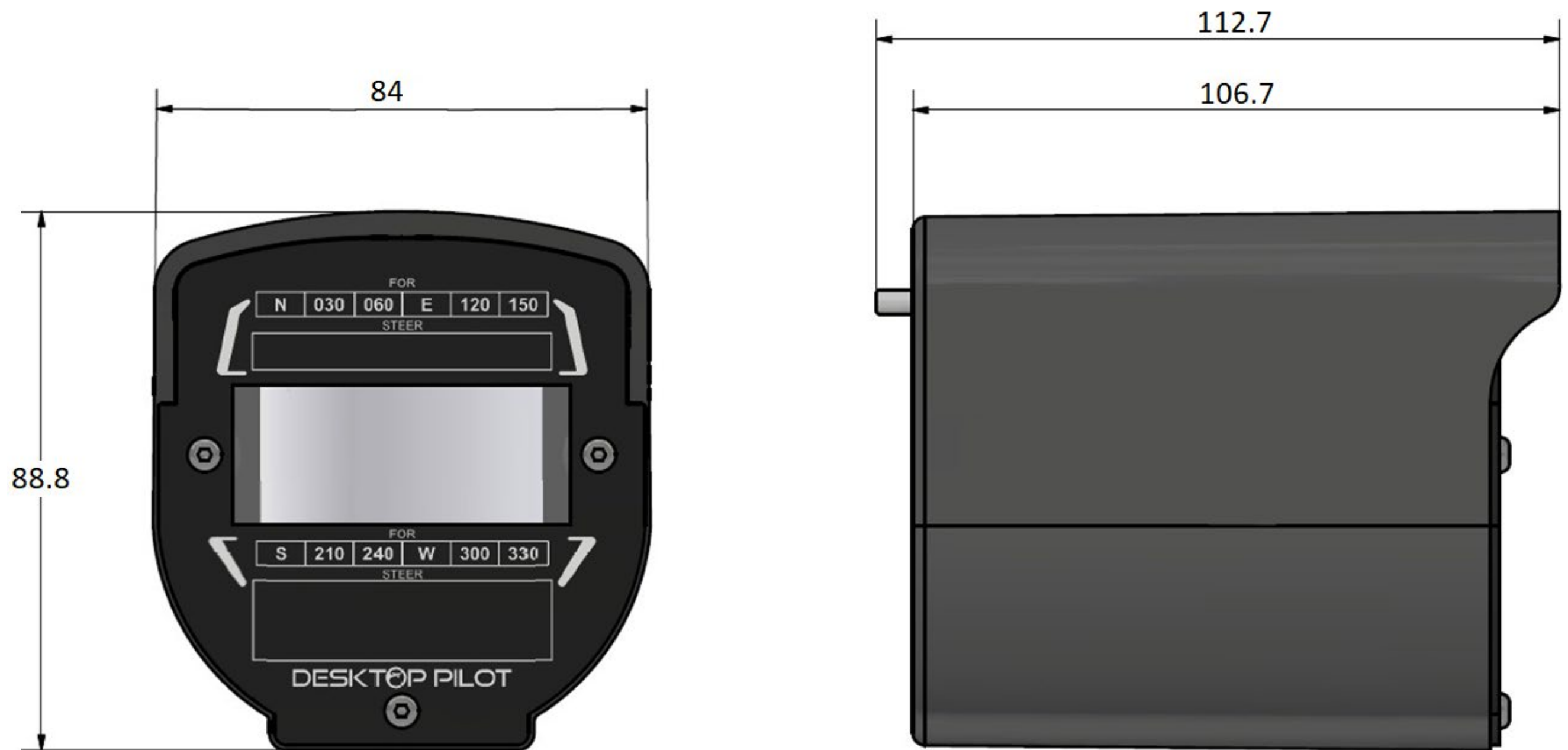
Product Weight/Dimensions

Dimensions (L x W x H):

84mm × 112.7mm × 88.8mm / 3.31 in × 4.44 in × 3.50 in

Weight:

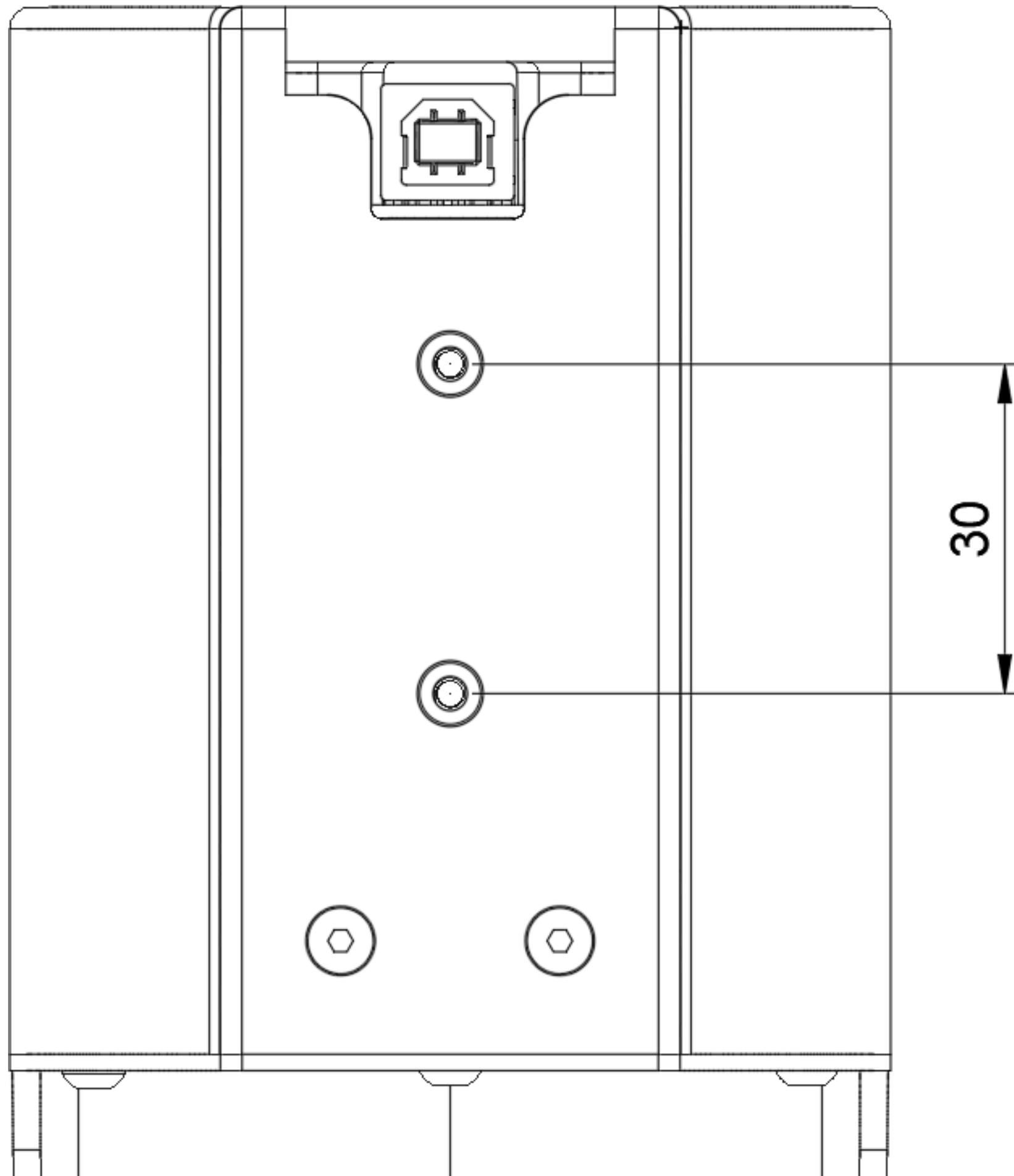
0.97lbs / 440g



All dimensions shown in the image are in **mm**

Panel hole dimensions (W x H):

30mm / 1.18 in



All dimensions shown in the image are in **mm**



IMPORTANT:

This device may not function correctly if other connected devices are assigned the same functions in the simulator software. If you experience any issues, disconnect those devices or delete the overlapping input bindings.

If you need assistance, feel free to contact our support team.

Safety, Maintenance, and Care Guidelines

To ensure safe use and extend the lifespan of the **Compass**, follow these recommendations:

Safety Precautions

- **Proper Use:** Keep the unit dry and free from moisture. Use only certified USB power sources.
- **Heat & Ventilation:** Avoid placing the device near heat sources or in direct sunlight.
- **Material Care:** Avoid solvents or abrasive cleaners; plastic parts can deform above **60–65°C (140–149°F)**.
- **Handling:** Handle device carefully to avoid damage. Keep out of reach of children and pets.
- **Disposal:** Follow local recycling rules for electronics and plastics.
- **Warranty:** Unauthorized modification or disassembly may void the warranty. Contact support for approved repairs or servicing.

Maintenance and Care

- **Surface Cleaning:** Use a soft, dry microfiber cloth to clean exterior surfaces. Avoid liquid cleaners and alcohol-based solutions.
- **USB Port Care:** Ensure USB Type B connection remains secure and free from debris. Minimize unnecessary unplugging to reduce port wear.
- **Storage:** Store in a dry, dust-free environment away from direct sunlight when not in use.

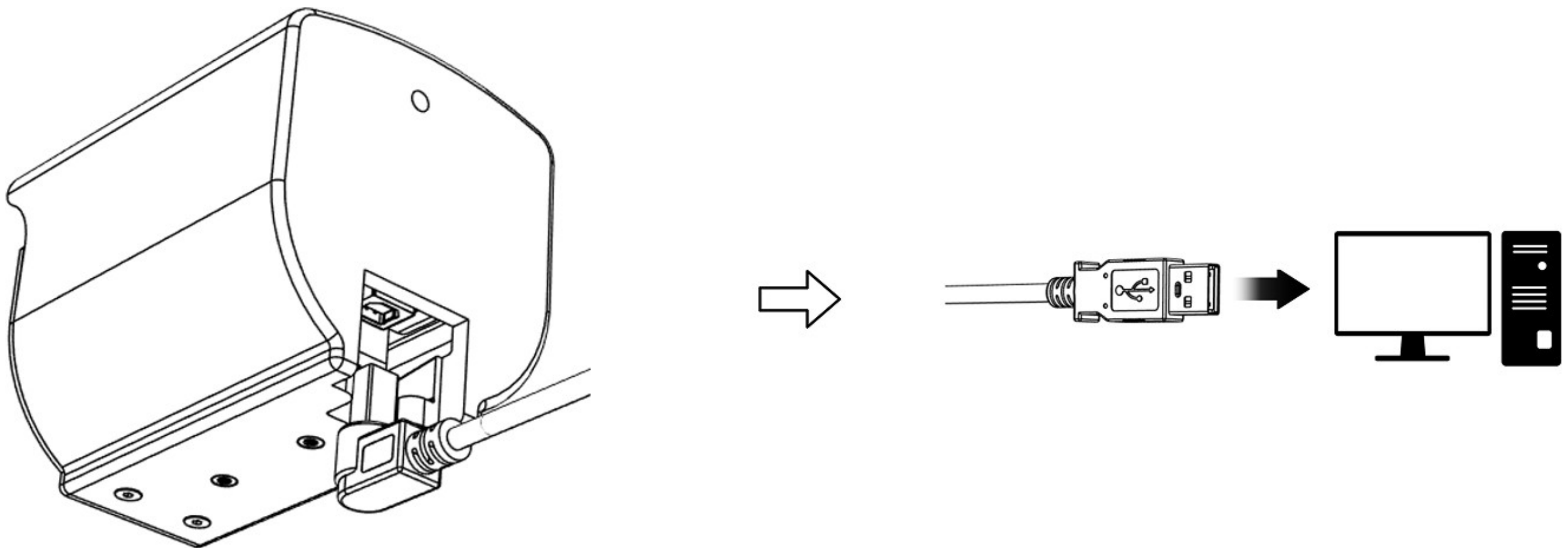
Setup Instructions

1) (Optional) Mount the Device

Refer to the **Mounting Options** section of this manual for instructions on securing the device.

2) Establish USB Communication

- Connect the **Type-B** end of the included USB cable to the Compass.
- Connect the **Type-A** end to a USB port on your PC.



Setup Instructions

Software Setup & Configuration

Complete setup based on the flight simulator software you are using:

- Option A: Setup for X-Plane 11/12.....page 12
- Option B: Setup for Microsoft Flight Simulator (MSFS) 2020/2024.....page 14

Setup Instructions

OPTION A: SETUP FOR X-PLANE 11/12

3) Install Required Software

1. Visit <https://www.desktoppilot.com/software/>
2. Download the latest version of **SkySync for X-Plane**.



3. Run the installer and complete installation.

Tip: Pin **SkySync** to your Start menu or taskbar for quick and easy access.

4) Connect & Calibrate

1. Launch **X-Plane 12** (or X-Plane 11).
2. Start a new flight.
3. Open **SkySync** and leave it running in the background.

Setup Instructions

4. Visually confirm that:
 - The heading on the physical compass matches the compass heading in the aircraft within X-plane.
5. **If necessary**, fine-tune settings in **SkySync**:
 - Open the **Devices** tab.
 - Click the **Compass** icon to open the settings.
 - Use the left and right buttons to align the Compass heading with the aircraft in the simulator.

IMPORTANT: Always leave SkySync running in the background. Minimize the window, but do not exit the application.

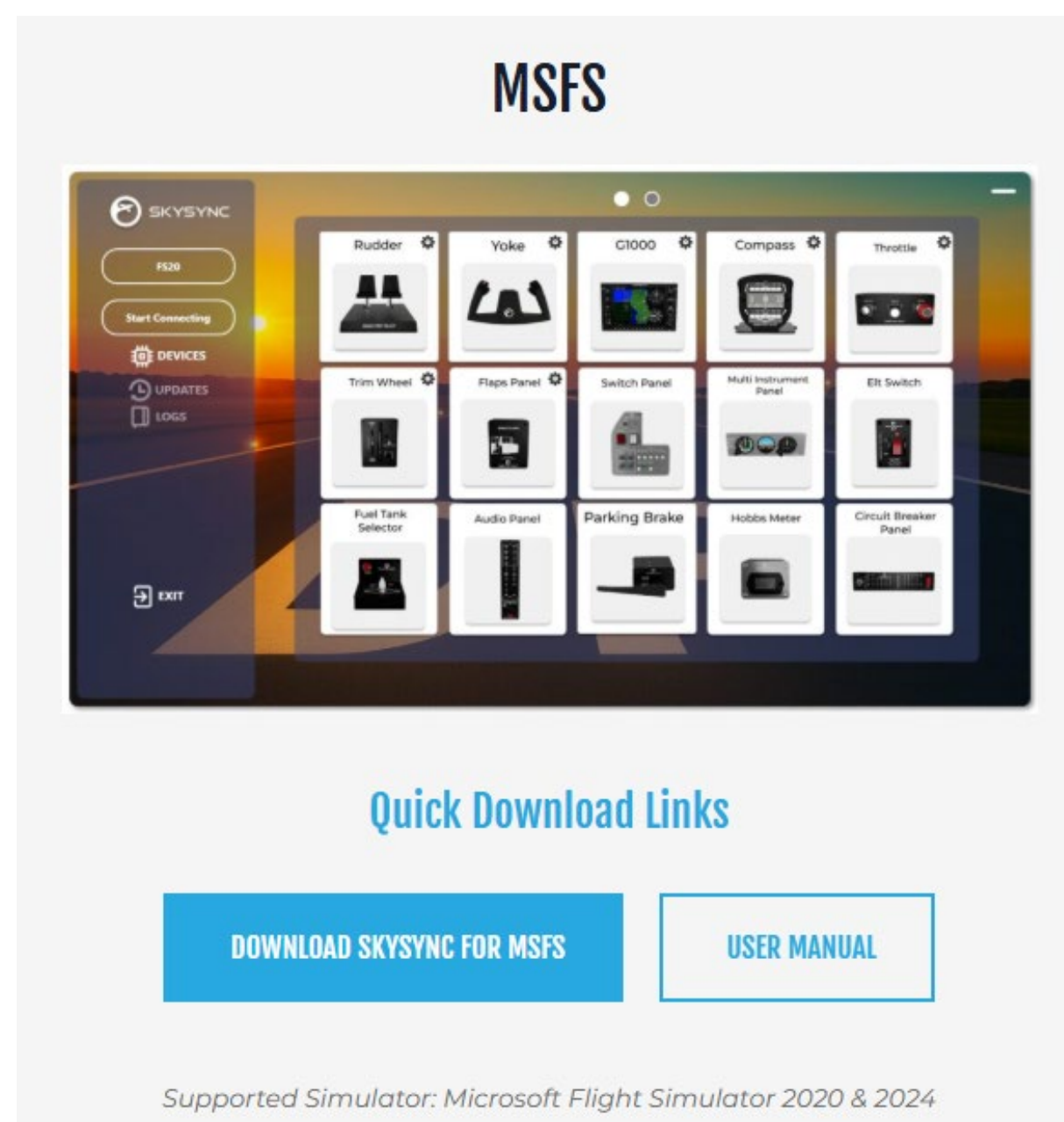
You're All Set! Happy Flying!

Setup Instructions

OPTION B: SETUP FOR MICROSOFT FLIGHT SIMULATOR 2020/2024

3) Install Required Software

1. Visit <https://www.desktoppilot.com/software/>
2. Download the latest version of **SkySync for MSFS**.



3. Run the installer and complete installation.

Tip: Pin SkySync to your Start menu or taskbar for quick access.

4. Open SkySync, then select **Plugin** (top right) → **Insert**.
A pop-up will confirm the plugin was inserted successfully. Close SkySync.

Setup Instructions

4) Connect & Calibrate

1. Launch **MSFS 2024** (or MSFS 2020).
2. Start a new flight.
3. Open **SkySync** and leave it running in the background.
4. Visually confirm that:
 - The heading on the physical compass matches the compass heading in the aircraft within X-plane.
5. **If necessary**, fine-tune settings in **SkySync**:
 - Open the **Devices** tab.
 - Click the **Compass** icon to open the settings.
 - Use the left and right buttons to align the Compass heading with the aircraft in the simulator.

IMPORTANT: Always leave SkySync running in the background. Minimize the window, but do not exit the application.

You're All Set! Happy Flying!

Troubleshooting Guidelines

Compass Does Not Rotate or Update Heading

Problem: The compass card remains stationary and does not reflect changes in aircraft heading.

Solution:

- Verify the USB connection between the Compass and the PC is secure and recognized by SkySync Desktop Pilot.
- Confirm that the flight simulator is running and that the aircraft is airborne or taxiing with heading changes.
- Restart SkySync Desktop Pilot if the compass remains unresponsive.

Compass Heading Does Not Match Simulator Heading

Problem: The compass displays a heading different from the magnetic heading shown in the simulator.

Solution:

- Use the calibration feature in SkySync Desktop Pilot to align the physical compass with the simulator's magnetic heading at startup.
- Ensure you are referencing the correct magnetic heading indicator in the simulator—either the glareshield compass or the heading tape on the PFD.
- Confirm that no other software or hardware is interfering with heading data transmission.

Compass Calibration Does Not Save or Reset After Restart

Problem: The compass heading is misaligned after restarting the simulator or flight session.

Solution:

- Complete the calibration process each time you start a new flight or simulator session.

Troubleshooting Guidelines

- Use the SkySync Desktop Pilot interface to adjust the compass so it matches the magnetic heading shown in the simulator.

Device Not Detected by Computer

Problem: The Compass does not appear as a connected device on your computer.

Solution:

- Check that the USB Type B to Type A cable is firmly connected at both ends.
- Try another USB port or a different known-good cable.
- Reboot the computer and plug the device back in after the OS has restarted.
- If the device still isn't recognized, try connecting it to another computer to rule out device failure.

Compass Heading Lags Behind Simulator Heading Changes

Problem: Compass rotation is delayed or sluggish compared to simulator heading updates.

Solution:

- Ensure SkySync Desktop Pilot is updated to the latest version for performance optimization.

Frequently Asked Questions

Is the Compass compatible with Microsoft Flight Simulator (MSFS) and X-Plane?

Yes. The Compass works with both MSFS and X-Plane when used alongside SkySync Desktop Pilot. It receives magnetic heading data from the simulator and displays it accurately on the physical compass card.

Does the Compass work on Xbox or PlayStation?

No. The Compass functions as a Serial Device and requires SkySync Desktop Pilot software, which runs on Windows PCs. Console platforms such as Xbox and PlayStation do not support this type of hardware communication.

Does the Compass require calibration every time I start the simulator?

Yes. Because the Compass physically aligns with simulator data via a stepper motor without internal memory, calibration should be performed at the start of each flight session to ensure accurate heading alignment.

Is the LED light always on when the device is powered?

No, the Compass has a button on the back that turns the LED light on or off, even when the device is powered.

Desktop Pilot

Your ticket to the virtual skies!

Need Help or Have Suggestions?

If you're experiencing an issue not covered in this guide, would like to report a bug, or have ideas for improvement — we're here to help.

Contact Us

Email: support@desktoppilot.com

Phone: +1-888-296-9150

Support Hours

Monday–Friday

10:00 AM – 6:00 PM (EST)

Visit Us Online

<https://www.desktoppilot.com/>

Your feedback helps us improve the experience. Don't hesitate to reach out — we'd love to hear from you!

*Manuals and troubleshooting steps are updated periodically. To access the latest full version of this manual and updated troubleshooting tips, visit:

<https://www.desktoppilot.com/manuals/compass-user-manual/>