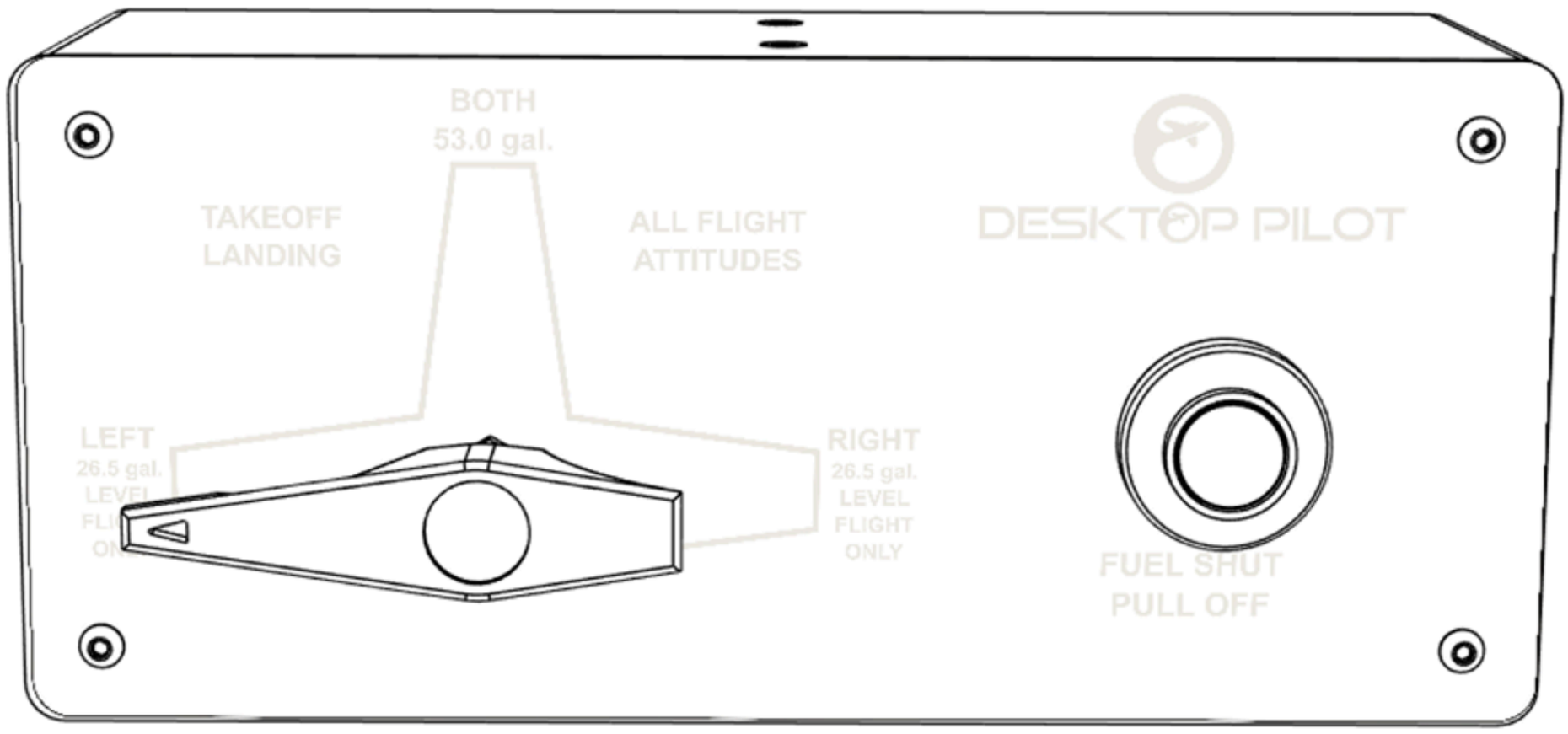
DESKTOP PILOT

Fuel Tank Select

User Manual



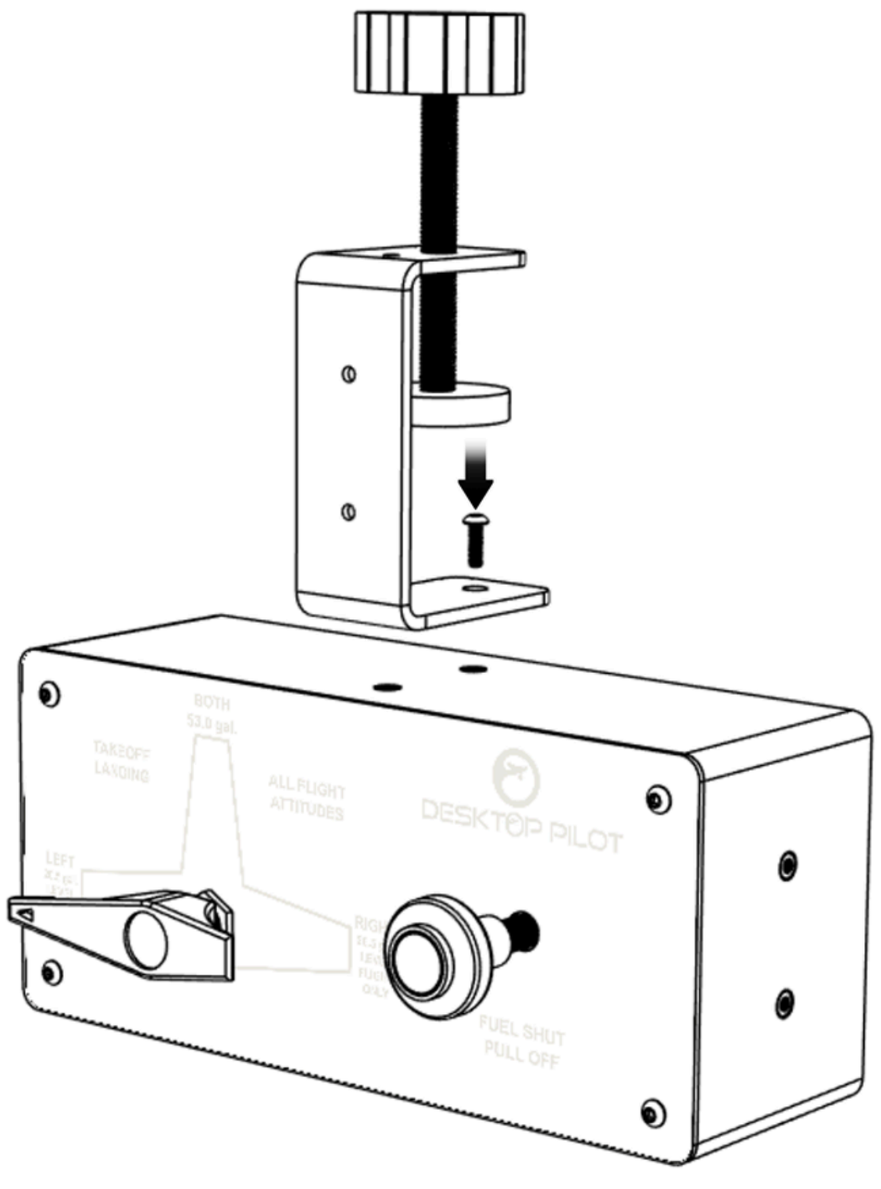
Joystick

Version 1.0

MOUNTING OPTIONS

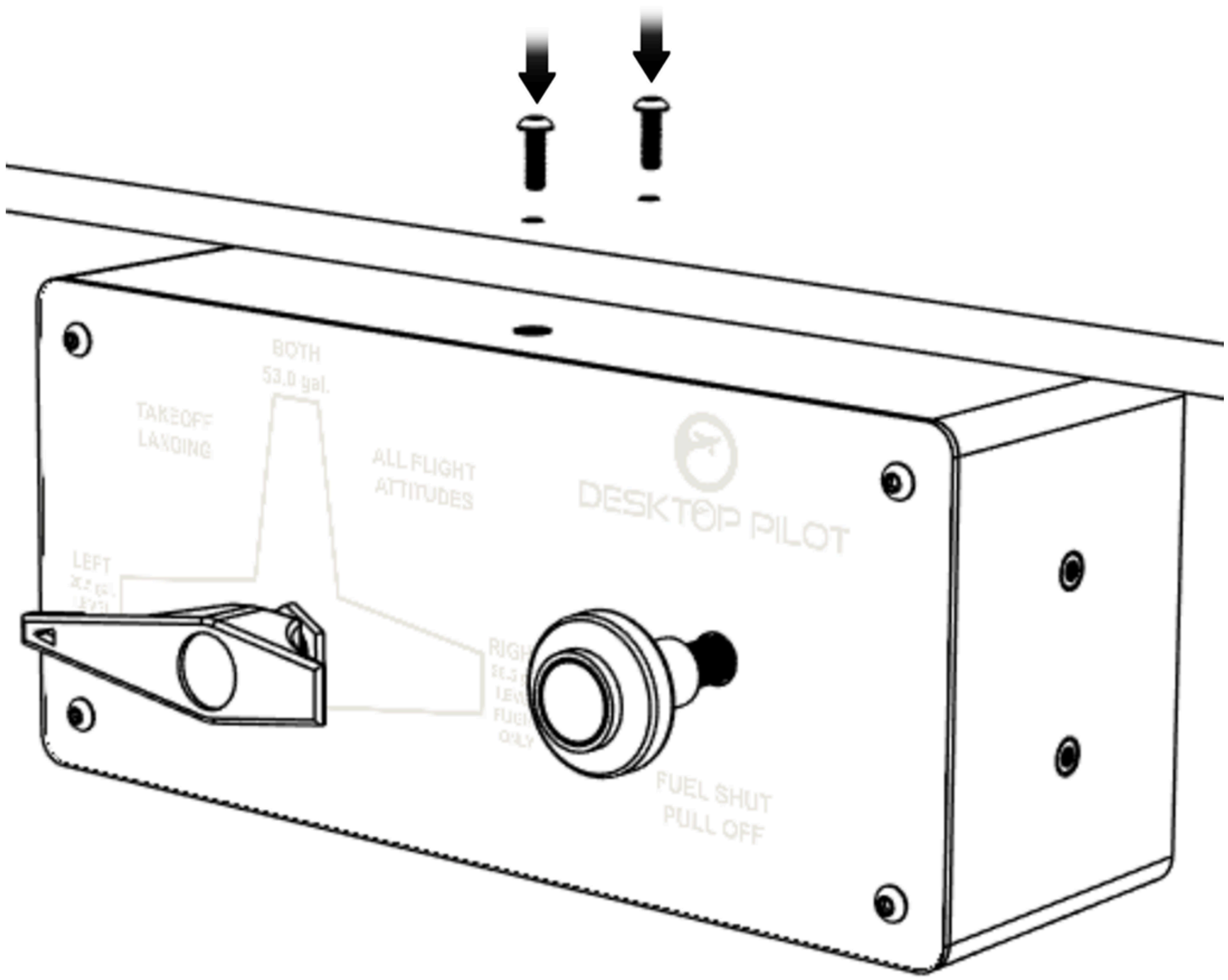
Clamp Mounting

Screw the clamp into any of the available mounting holes on the product located on the top, sides, or bottom depending on your preferred setup.



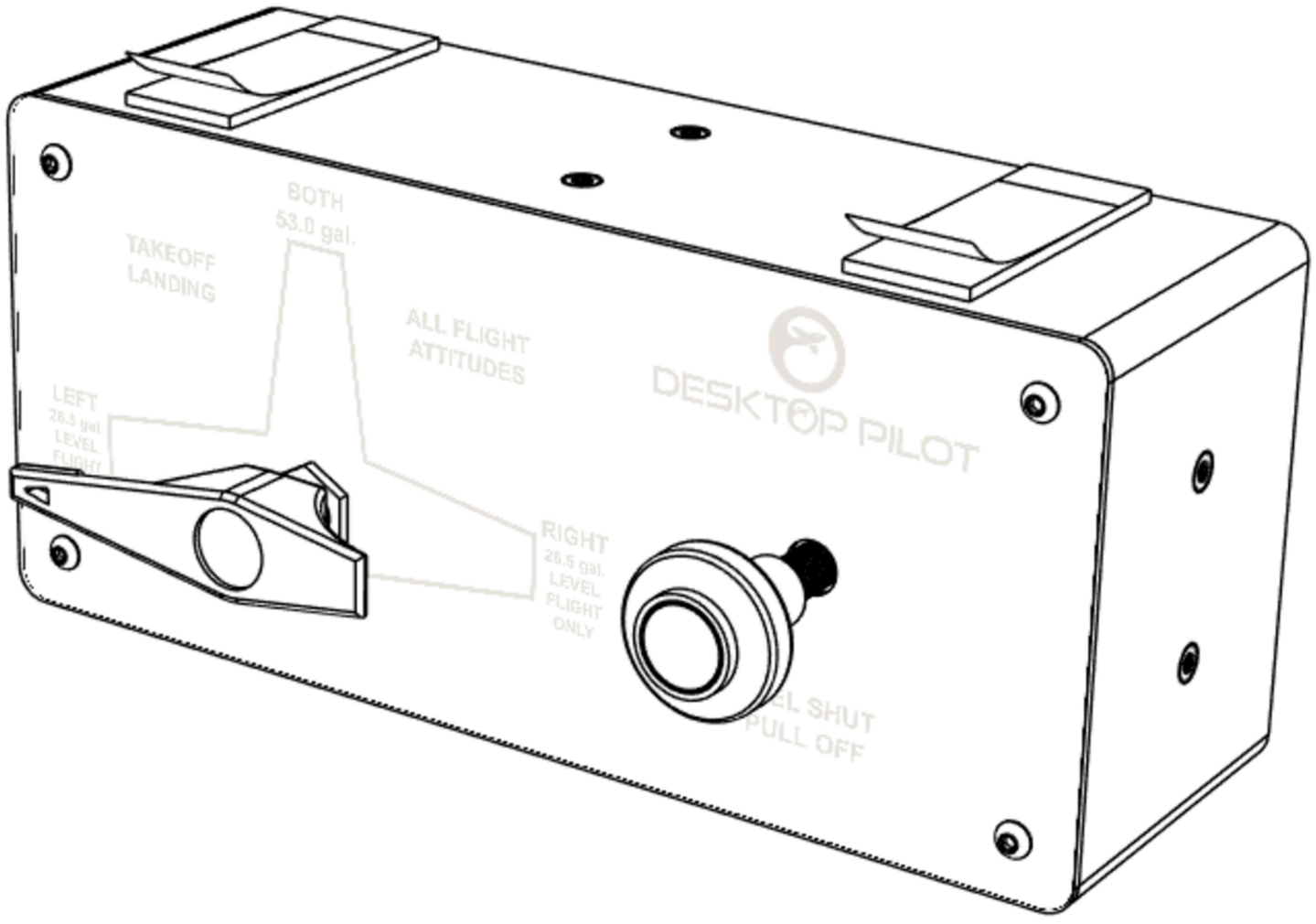
Screw Mounting

Secure the product directly to the desk using the mounting holes on its base. Use M3 screws to fasten it



Adhesive Mounting

Stick the double sided tape to any side of the product.



PRODUCT SPECIFICATIONS

What’s in the box?

- USB Type-A to Type-B Cable
- Fuel Tank Select
- Double-sided VHB Tape

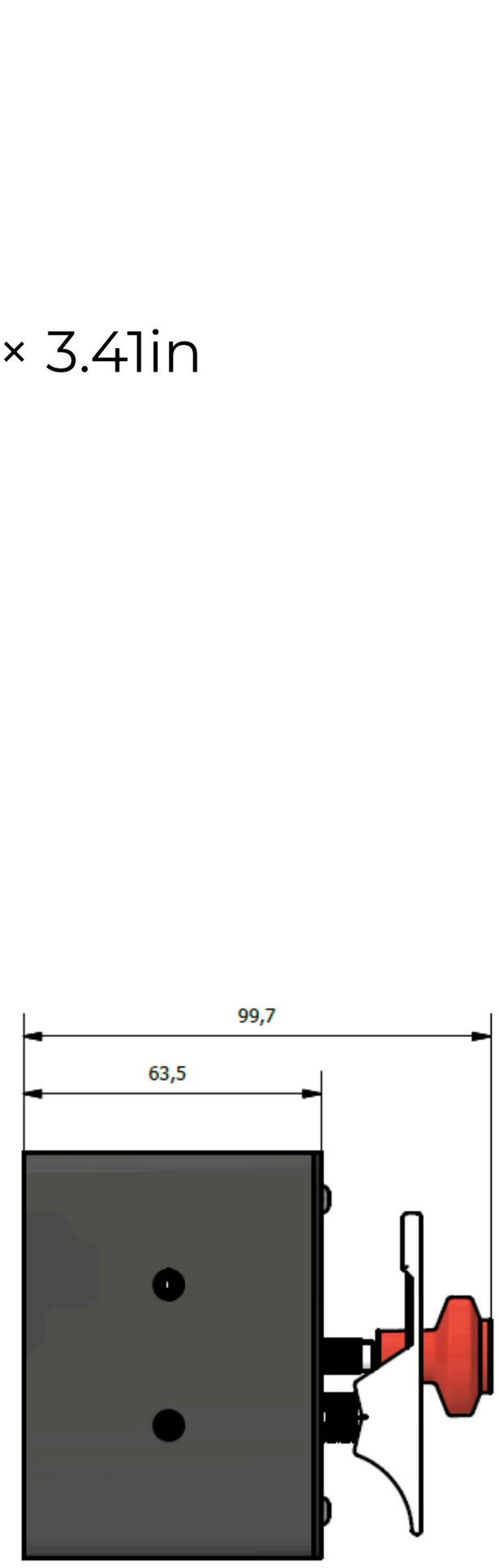
Product Weight/Dimensions

Dimensions (L x W x H):

195mm x 99.7mm x 86.5mm / 7.68in × 3.93in × 3.41in

Weight:

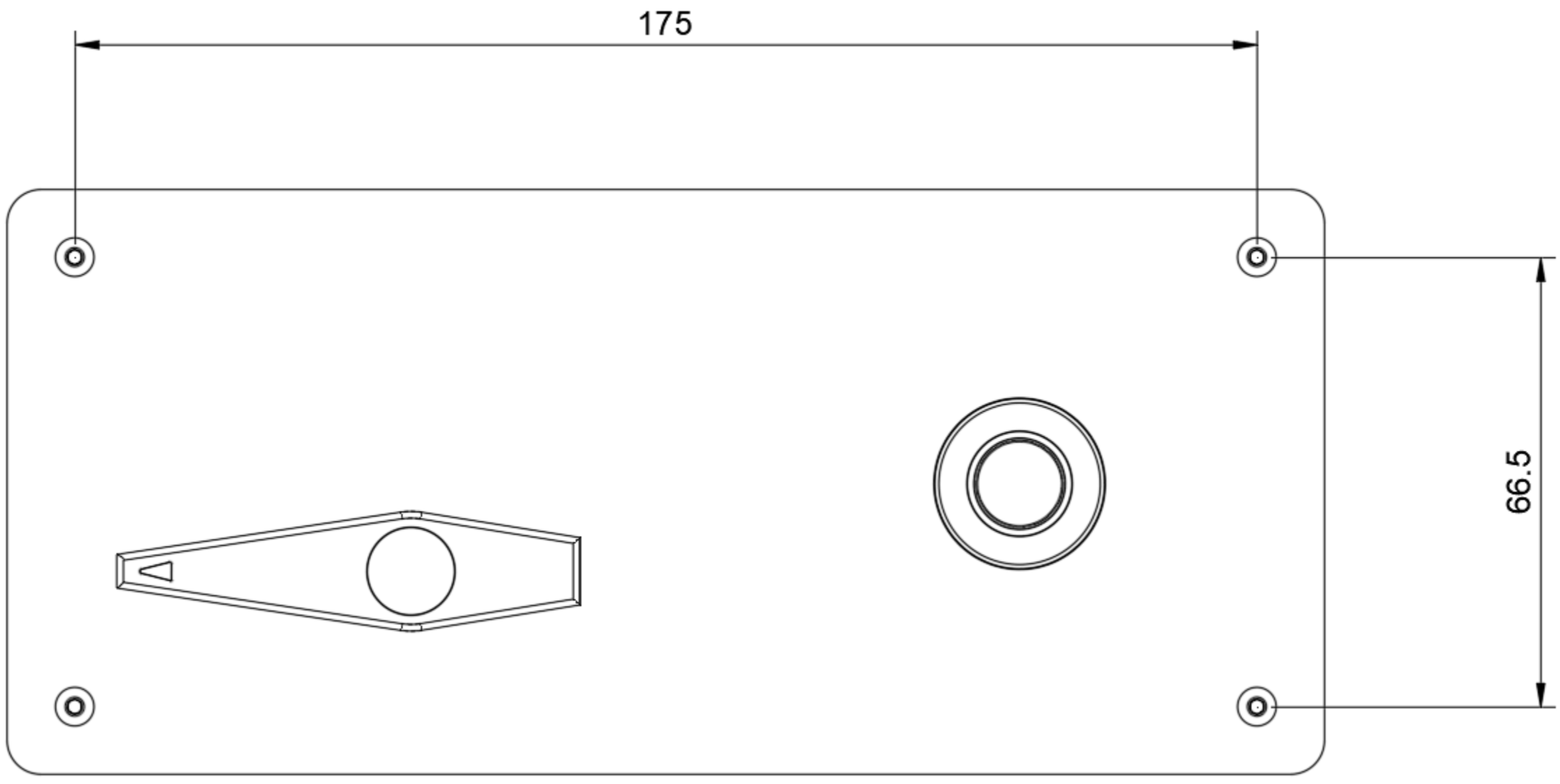
0.97lbs / 440g



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

Panel hole dimensions (W x H):

175mm x 66.5mm / 6.89in x 2.62in



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

Safety, Maintenance, and Care Guidelines

To ensure safe use and extend the lifespan of the **Fuel Tank Select** 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. Prolonged exposure may damage internal components and warp external plastic parts.
- **Material Sensitivity:** External components made from plastic materials will deform at temperatures above **60–65°C (140–149°F)**. Avoid contact with solvents or abrasive chemicals.
- **Handling:** Handle device carefully to avoid internal damage. Keep out of reach of children and pets.
- **Disposal:** Do not dispose with household waste. Follow local electronic and plastic recycling regulations.
- **Warranty:** Unauthorized modification or disassembly may void warranty. Contact support for approved repair 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

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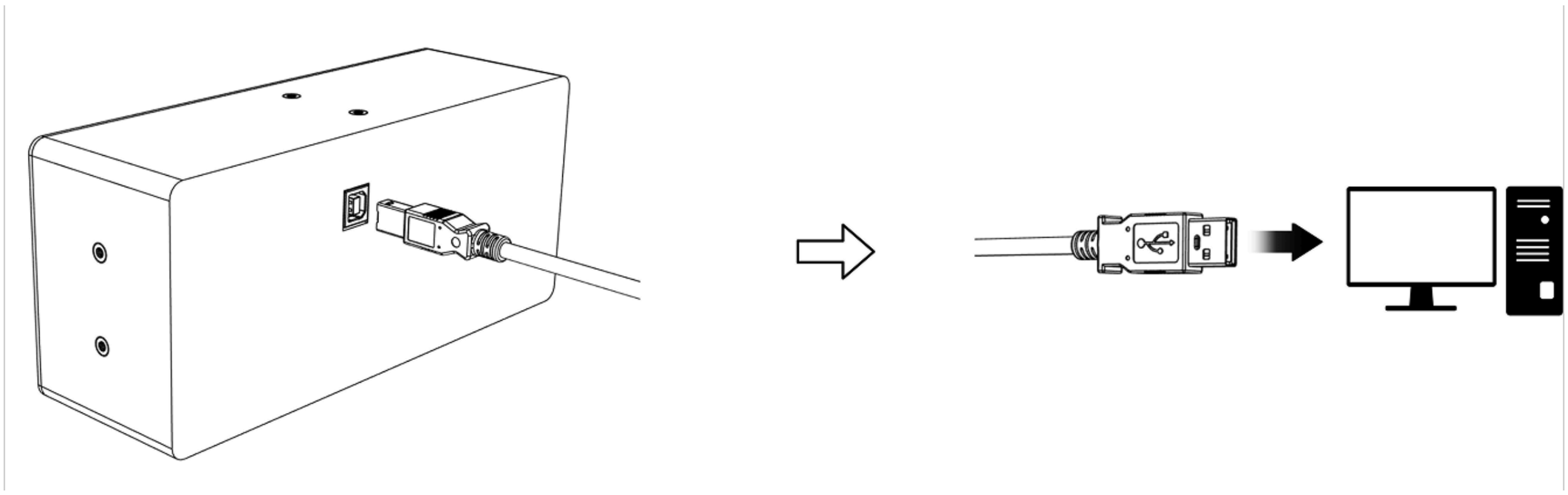
1) **(Optional) Mount the Device**
   Refer to the **Mounting Options** section of this manual for instructions on securing the device.
2) **Establish USB Communication**
   a) Use a **USB Type-B to Type-A cable** included in the package.
   b) Connect the **Type-B** end to the display.
   c) Connect the **Type-A** end to your PC.



Setup Instructions

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3) **Configure in Flight Simulator**
   Open your preferred flight simulator and assign the controls in the settings menu. Ensure that there are no devices that may conflict with the **Fuel Tank Select's** configuration.

Configuration for Flight Simulators:

For X-Plane 11/12:

- Go to **X-Plane's Settings** and navigate to the **Joystick** tab.
- In the device list, click the dropdown menu and select **"Fuel Tank Select."**
- Now assign the buttons as follows:
  - **Option A:** If the serial number is ***0325P019AEV20B*** or an earlier number:
    - **Btn 0 →** Search for "**Pull fuel and mags for shutdown"** and assign it.
    - **Btn 1 →** Search for **"Set fuel selector to left tanks"** and assign it.
    - **Btn 2 →** Search for **"Set fuel selector to all tanks"** and assign it.
    - **Btn 3 →** Search for **"Set fuel selector to right tanks"** and assign it.
  - **Option B:** If the Serial Number is later than the code above:
    - **Btn 0 →** Search for **"Pull fuel and mags for shutdown"** and assign it.
    - **Btn 3 →** Search for **"Set fuel selector to left tanks"** and assign it.
    - **Btn 4 →** Search for **"Set fuel selector to all tanks"** and assign it.
    - **Btn 5 →** Search for **"Set fuel selector to right tanks"** and assign it.
- Once assignments are complete, click **"Done"** in the bottom right corner of the screen.

Setup Instructions

For Microsoft Flight Simulator 2020:

- Go to the **MSFS's Options menu.**
  - Click on the **CONTROLS OPTIONS**.
  - From the device list at the top, select **"Fuel Tank Select."**
- Assign Button Controls:
  - In the search bar, look up each of the following:
    - **Option A:** If the serial number is ***0325P019AEV20B*** or an earlier number:
      - **TOGGLE ENGINE 1 FUEL VALVE → 1**
      - **FUEL SELECTOR 1 RIGHT → 4**
      - **FUEL SELECTOR 1 LEFT → 2**
      - **FUEL SELECTOR 1 ALL → 3**
    - **Option B:** If the Serial Number is later than the code above:
      - **TOGGLE ENGINE 1 FUEL VALVE → 1**
      - **FUEL SELECTOR 1 RIGHT → 6**
      - **FUEL SELECTOR 1 LEFT → 4**
      - **FUEL SELECTOR 1 ALL → 5**
  - Create and Save a New Profile
    - When prompted, create a new input profile (e.g., **"Desktop Pilot FTS"**).
- Once all buttons are properly assigned, click **"Apply & Save"** at the bottom left corner of the screen.

Setup Instructions

For Microsoft Flight Simulator 2024:

- Open the simulator and navigate to the **Settings menu** by clicking the **gear icon** in the upper right corner.
- Click on the **Controls** tab.
- Ensure the aircraft selected for configuration is **Cessna 172 Skyhawk** using the **G1000** variant.
    - If not, change the aircraft via the settings by pressing **G** or clicking the **Change Aircraft**.
- On the left side of the screen, select **“Fuel Tank Select”** from the list of devices.
- Search and assign the following commands:
    - **Option A:** If the serial number is ***0325P019AEV20B*** or an earlier number:
        - **TOGGLE ENGINE 1 FUEL VALVE → 1**
        - **FUEL SELECTOR 1 RIGHT → 4** (Select the version labeled **Specific** and **Digital**)
        - **FUEL SELECTOR 1 LEFT → 2** (Select the version labeled **Specific** and **Digital**)
        - **FUEL SELECTOR 1 ALL → 3** (Select the version labeled **Specific** and **Digital**)
    - **Option B:** If the Serial Number is later than the code above:
        - **TOGGLE ENGINE 1 FUEL VALVE → 1**
        - **FUEL SELECTOR 1 RIGHT → 6** (Select the version labeled **Specific** and **Digital**)
        - **FUEL SELECTOR 1 LEFT → 5** (Select the version labeled **Specific** and **Digital**)
        - **FUEL SELECTOR 1 ALL → 4** (Select the version labeled **Specific** and **Digital**)
- Create and Save a New Profile
    - When prompted, create a new input profile (e.g., **“Desktop Pilot FTS”**). **Apply it to all aircraft and set it as default.**
- Click **“Save and Back”**, return to the simulator, and test each control to verify proper response.

Troubleshooting Guidelines

Fuel Shutoff Knob Sticks or Fails to Engage

- **Problem:** The push-pull fuel shutoff knob does not move smoothly or fails to actuate.
- **Solution:**
  - Check for physical obstructions around the knob's base or shaft.
  - Ensure the internal switch and spring are properly seated and not obstructed.
  - Pull and push the knob with a straight motion to avoid bending or lateral force.

Device Not Recognized by Computer

- **Problem:** The Fuel Tank Select does not appear in the operating system's device list.
- **Solution:**
  - Use a different USB port and ensure the cable is fully inserted on both ends.
  - Try a known working USB cable (Type B to Type A).
  - Reboot your computer and reconnect the device after the system has restarted.
  - Test the device on another computer to rule out hardware failure.
  - If it's still unrecognized, the onboard USB controller or cable port may be damaged—contact support.

Incorrect Button Mapping or No Input Detected in Simulator

- **Problem:** The handle does not stay in the locked position or fails to disengage.
- **Solution:**
  - Open the flight simulator's control settings and reassign the relevant buttons manually.
  - Ensure no conflicting hardware is mapped to the same simulator functions.
  - Test button presses in the operating system's game controller settings to confirm hardware input.

Troubleshooting Guidelines

Device Disconnecting During Use

- **Problem:** The Fuel Tank Select intermittently disconnects from the PC during use.
- **Solution:**
  - Check the USB cable for any visible damage or wear. Try using a different cable if necessary.
  - Try connecting the device directly to your PC’s USB port instead of using a USB hub.

Frequently Asked Questions

Is the Fuel Tank Select compatible with simulator cockpit setups?
Yes, the Fuel Tank Select is compatible with simulator cockpit setups. It supports clamp mounting, direct screw installation, and adhesive mounting with double-sided VHB tape. It also supports pedestal mounting via the C172 Center Pedestal (sold separately), which provides dedicated cutouts for secure integration.

Is the Fuel Tank Select compatible with Xbox?
No. The Fuel Tank Select is not currently supported on Xbox platforms. Joystick devices without official Xbox licensing are not recognized by Xbox systems.

Is the Fuel Tank Select compatible with other flight sim peripherals?
Yes. It functions as a standalone joystick and operates independently of other simulator hardware. It is fully compatible with yokes, throttle quadrants, panels, rudder pedals, and other custom components.

Is the Fuel Tank Select input analog or digital?
Digital. The rotary selector and push-pull valve generate discrete button signals corresponding to their positions and actions.

Desktop Pilot

Your ticket to the virtual skies!

Need Help or Have Suggestions?

If you experience an issue not listed on the guidelines, want to report a bug, or have ideas for improvement, we're here for you!

📧 Contact Us: **sales@desktoppilot.comor +1-888-296-9150**

💬 Support Hours: **Monday–Friday, 10 AM – 6 PM EST**

🌐 Visit: **https://www.desktoppilot.com/**

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

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