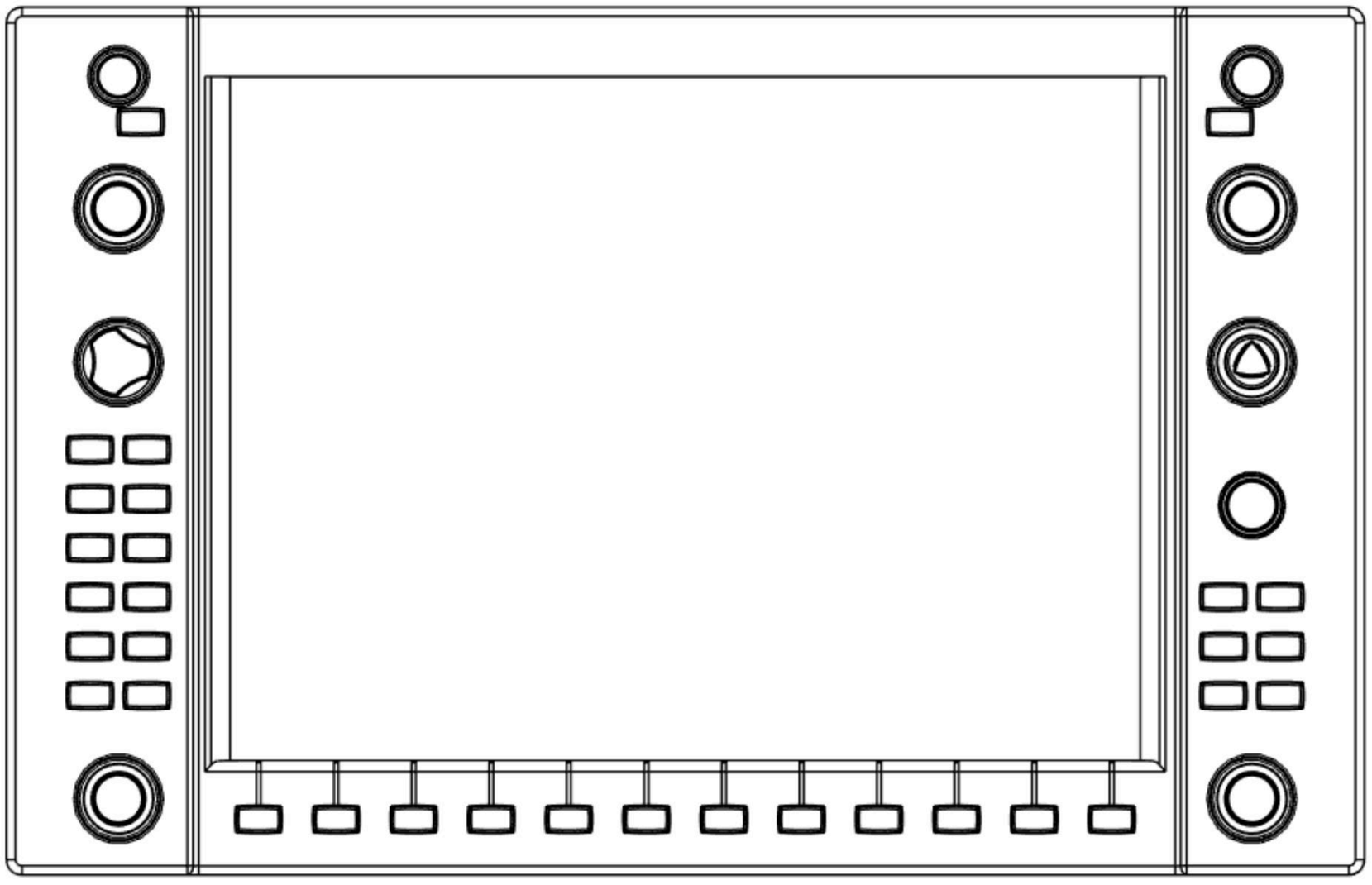
DESKTOP PILOT

Primary/Multi Flight Display G-1000

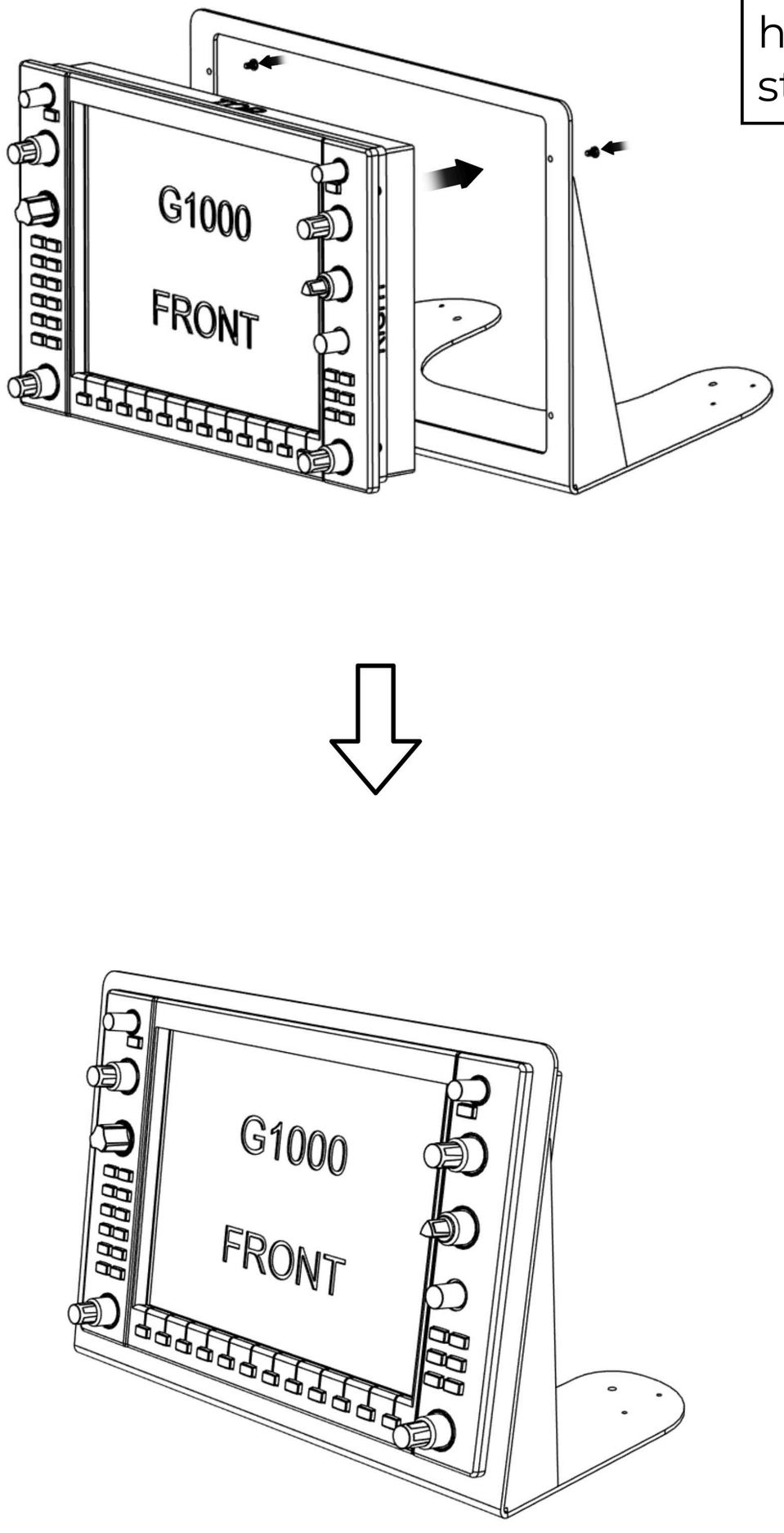
User Manual



Serial Device
Version 1.0

MOUNTING OPTIONS:

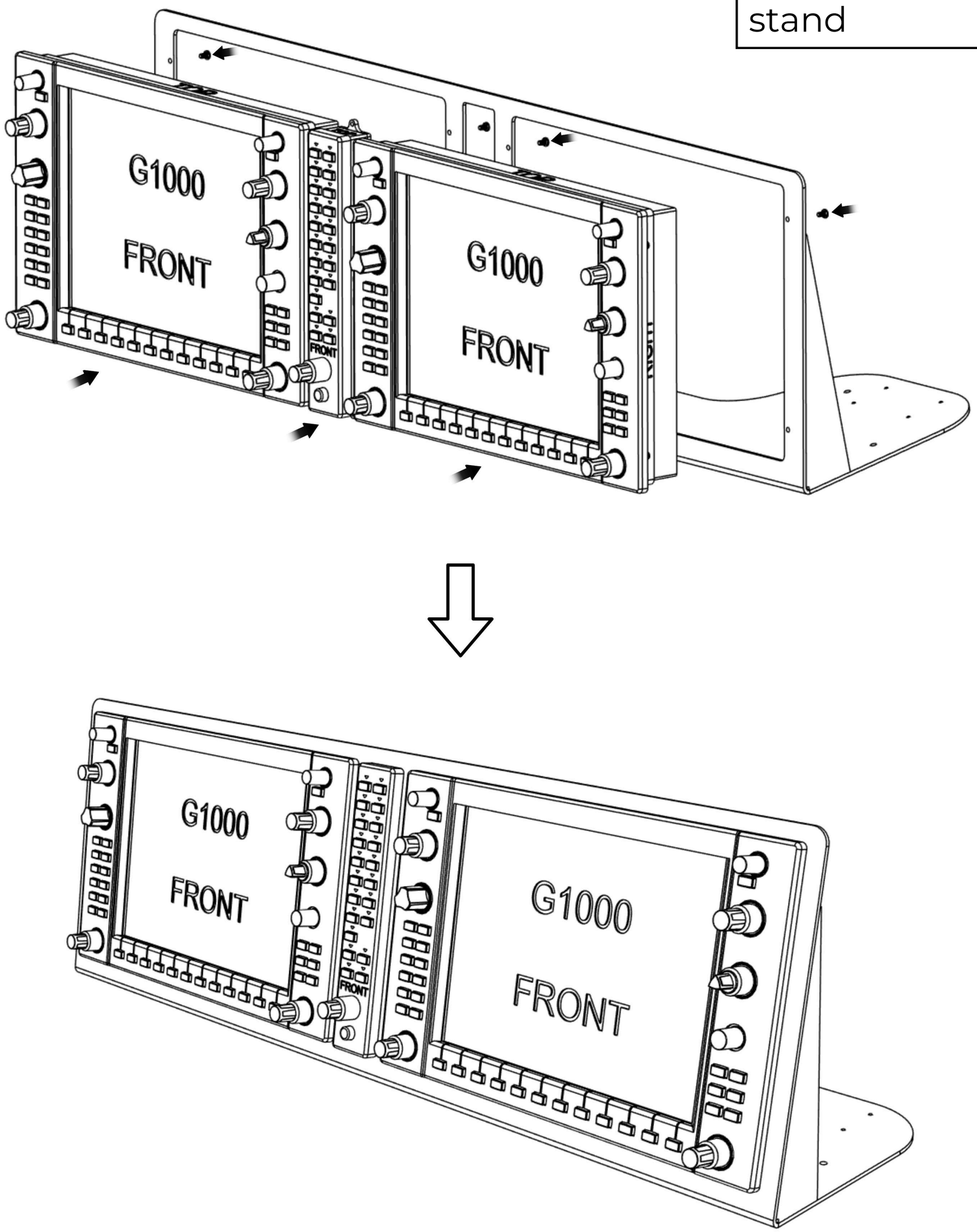
Single Stand



Insert the device into the stand, then secure it by tightening screws through the designated mounting holes at the back of the stand

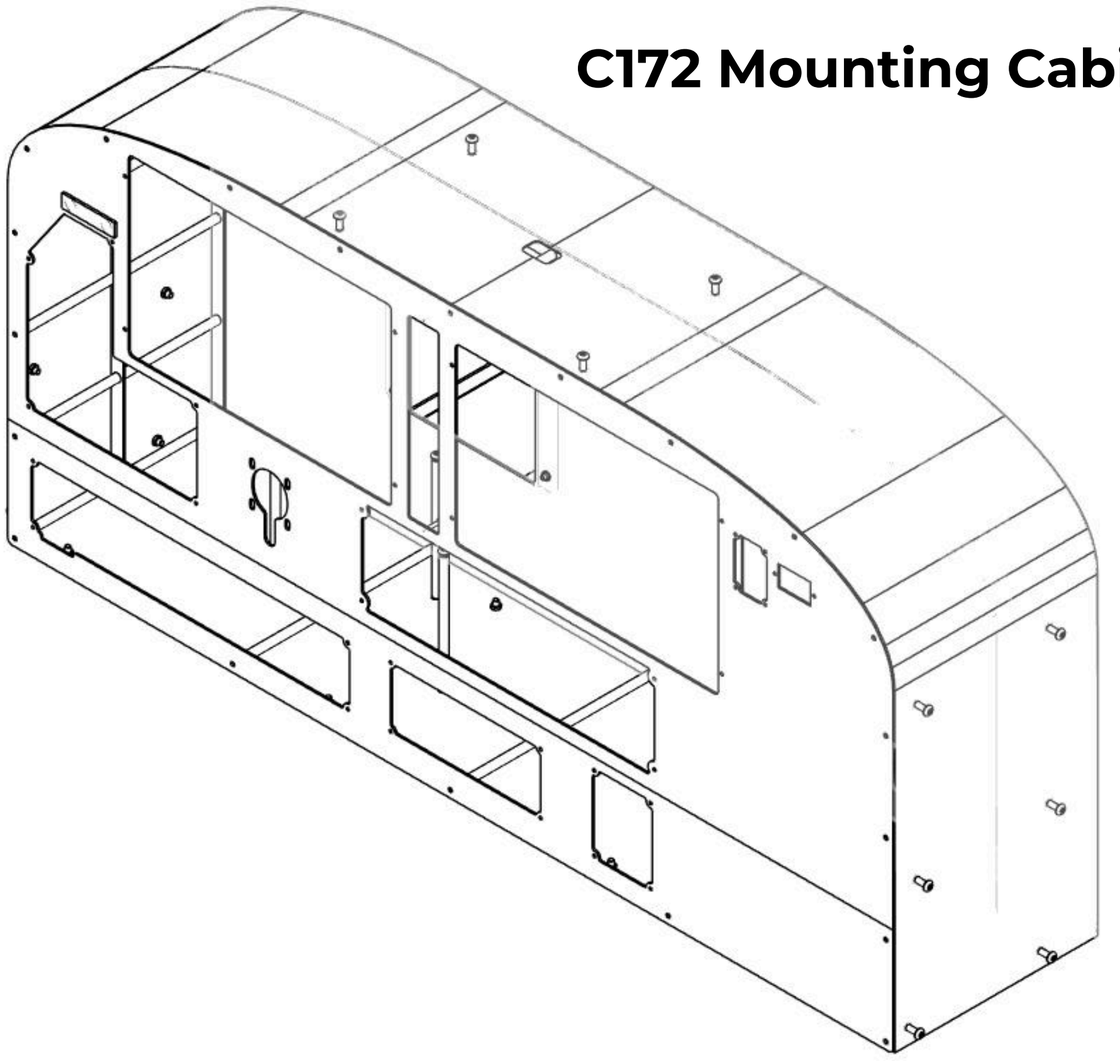
Dual Stand

Insert the device into the stand, then secure it by tightening screws through the designated mounting holes at the back of the stand

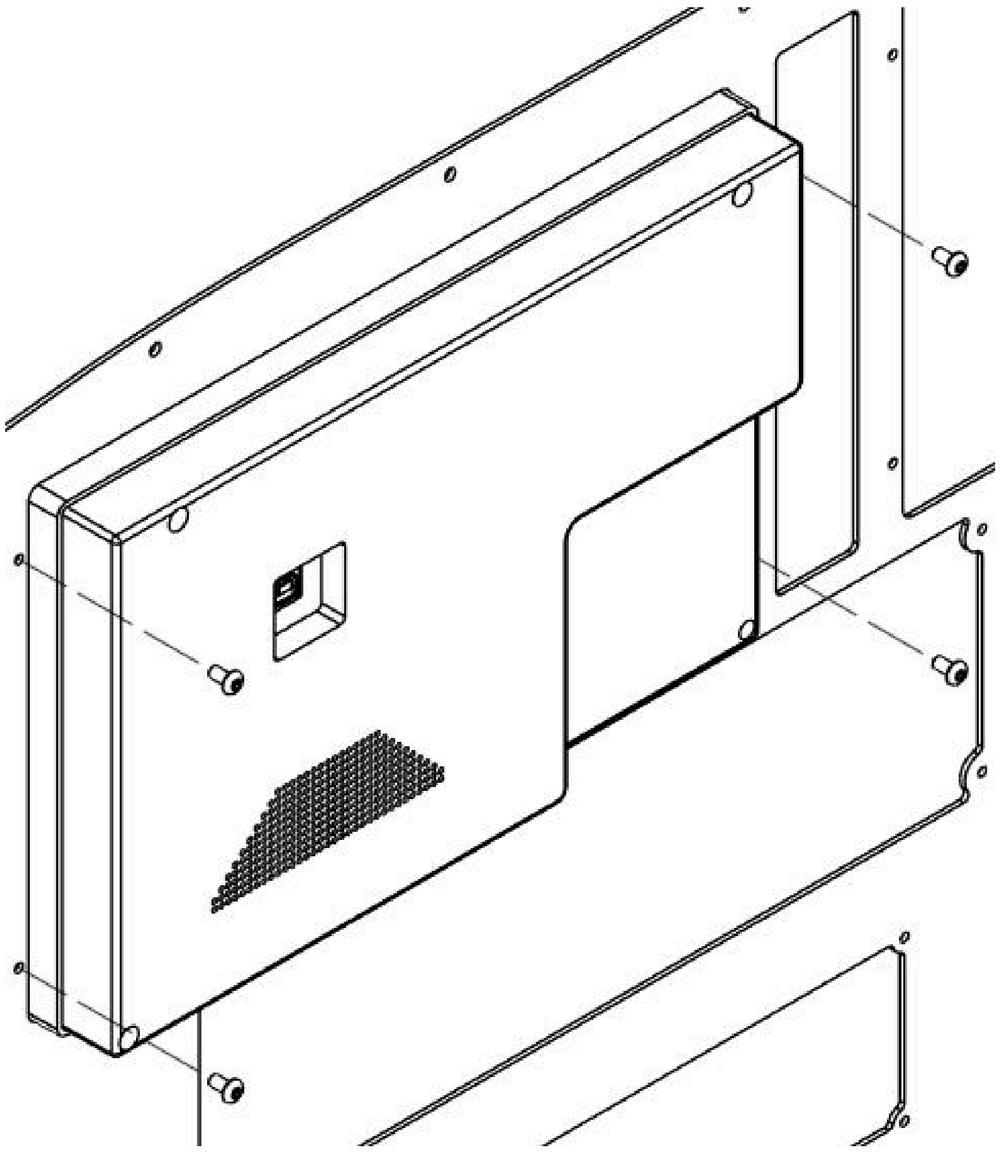


Cabinet Mounting / Panel Mounting

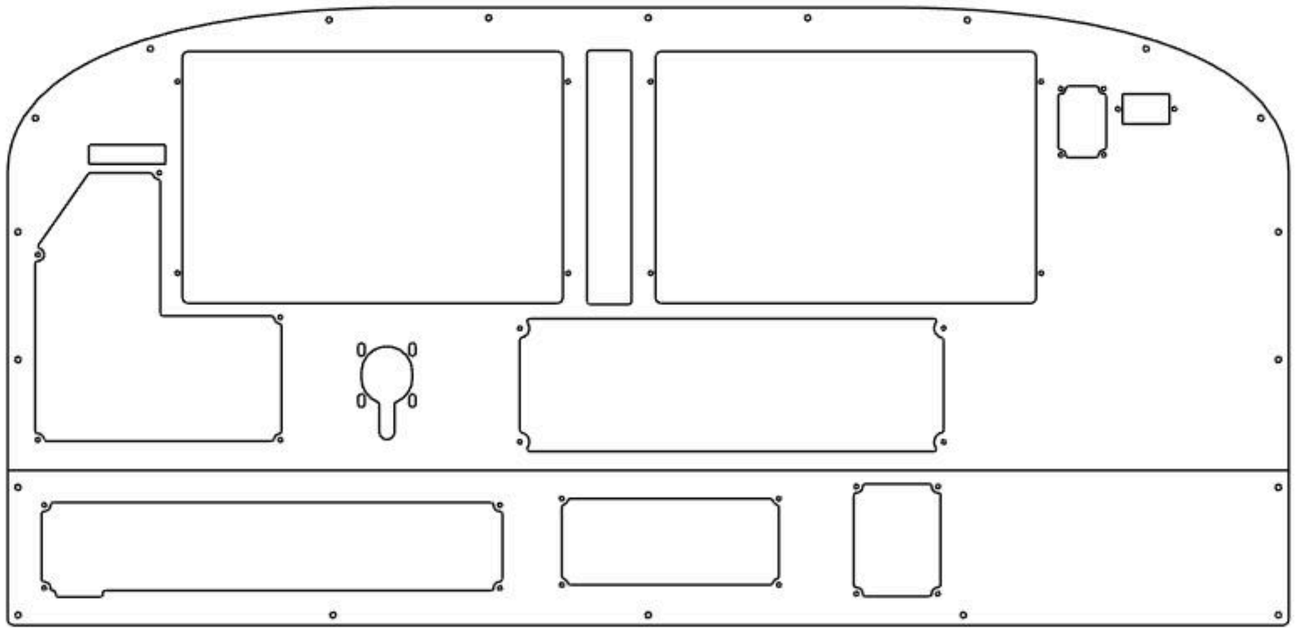
C172 Mounting Cabinet



Screw the product directly to the cabinet or panel as shown here.



C172 Mounting Panel



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 **Primary/Multi Flight Display G-1000,** follow these recommendations:

Safety Precautions

- **Proper Use:** Keep unit dry and free from moisture. Use only certified USB power sources.
- **Heat & Ventilation:** Avoid placing device near heat sources or in direct sunlight. Prolonged exposure may damage internal components.
- **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

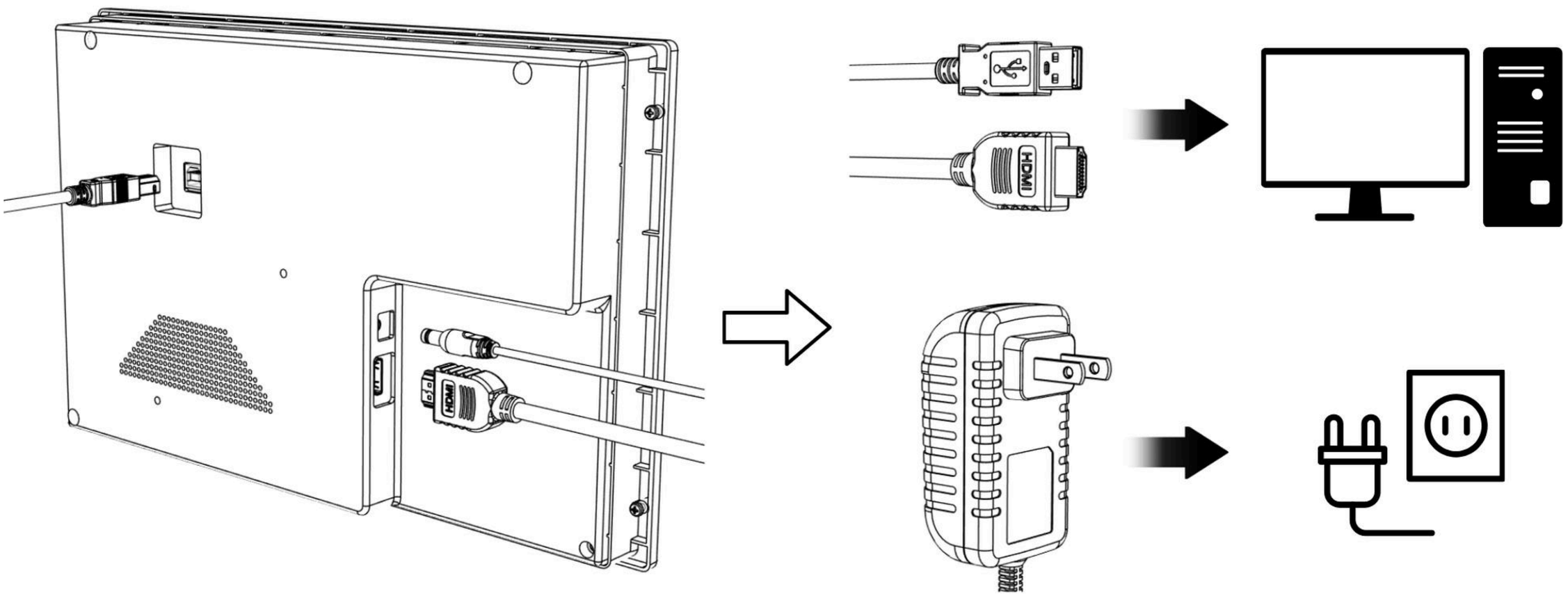
- **Surface Cleaning:** Use a soft, dry microfiber cloth to clean exterior surfaces. Avoid liquid cleaners and alcohol-based solutions.
- **USB Port Care:** Ensure USB Type B connection remains secure and free from debris. Minimize unnecessary unplugging to reduce port wear.
- **Storage:** Store in a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

Setup Instructions

1. **(Optional) Mount the Device**
   Refer to the **Mounting Options** section of this manual for instructions on securing the device.

2. **Establishing Communication**
   Connect the following to power and integrate the display with your simulator:

- **HDMI** – Connect an HDMI cable from the display to an available HDMI port on your PC's GPU.
- **USB** – Use a USB Type B to Type A cable:
  → Type B to the back of the display
  → Type A to your PC
- **Power** – Plug the included 12V 3A adapter into the display's power input and connect it to a wall outlet or power strip. Make sure your power source supports 100–240V.



Setup Instructions

3. **Checking Display Settings:** To set up the display of the Primary/Multi Flight Display G-1000, do the following:
   a. **Go to Display Settings:** Type at the Start bar **“Display Settings”** or click the **Settings Icon** and go to **System tab → Display.**
   b. **Set up the multiple displays:**
      i. Under the **Multiple displays,** ensure the selected setting is **Extend these displays.**
      ii. Click the **Identify** button to know which display number the **Primary/ Multi Flight Display has**.
      iii. After identifying, click the display number **Primary/Multi Flight Display uses** and ensure the following:
         1. The scaling is at **100%**
         2. The display resolution is at **1024x768**
      iv. Ensure the main display(the main monitor)’s scaling is at 100%.
4. **Install Required Software:** To download the necessary software, scan the QR code below or visit https://www.desktoppilot.com/software/. Install the following:
   a. **SkySync Desktop Pilot (Compatible with XPLN/MSFS):** Handles serial communication with the Primary/Multi Flight Display G-1000 to to emulate its functionality within the simulator.
   b. **SkyView Desktop Pilot (Compatible with XPLN/MSFS):** Manages screen output for G1000 screens and display of the Six-Pack Instrument Panel.

Setup Instructions

5. Set up the following software:

Option A: For X-Plane 11/12:

a. Open **SkySync and SkyView**
b. In **SkyView, Click *Insert EFIS*** to ensure the bezels are cleared for G1000 screens.
c. **Click *Plugin Attach*.** A window will pop-up the location of SkySync's folder.
    i. Inside the folder, select ***DesktopPilot.xpl*** file to insert the plugin into **X-Plane.**

Note: If **X-Plane** is open when inserting a plugin or inserting EFIS, restart **X-Plane.** Then restart **SkySync and SkyView** to re-establish the connection.

a. In **X-Plane,** select an aircraft with a **G1000 avionics** and start the flight.
b. **In SkyView, Click *IDENTIFY*** to know which screens the Primary/Multi Flight Display monitors are.
c. Insert the corresponding numbers displayed on the text box of the PFD and MFD based on the numbers displayed on the screens.
d. **Click *SET SCREEN*** button to set the monitors where the G1000 screen will display.
e. **Click *POP-OUT PFD and POP-OUT MFD*** to display the G1000 screens into the respective monitors.
    i. Alternatively, **Click *POP-OUT SIX PACK*** to display the six-pack analog instrument in a G1000 screen.

Note for X-Plane-11 Users: Automatic G1000 screen placement is limited in X-Plane 11. Screens pop out, but manual placement may be required. This limitation does not affect X-Plane 12.

a. In **SkySync**, navigate to the **Devices tab** and click the **Settings** icon next to the **G1000**.
    i. (Optional) Click *SWAP PFD/MFD CONTROLS* to swap the functionality of the device (from PFD to MFD and vice versa)
    ii. If using ***Six-Pack*** from **SkyView,** click ***SWAP TO SIX-PACK CONTROLS*** to swap the functionality of the device to control the six-pack analogs.
    iii. If the device does not function properly, click ***CALIBRATE*** to re-calibrate the device's functionality.

Setup Instructions

Option B: For Microsoft Flight Simulator 2020/2024

1. **Download and install *WAsim Commander Plugin Patcher*** from either:
    a. **Desktop Pilot's software website:** https://www.desktoppilot.com/software
    b. **GitHub:** https://github.com/FlightGeek/Wasim-Commander-Plugin-Patcher
2. **Open *WAsim Plugin Patcher*.**

3. **From the dropdown menu,** select the installed version of Microsoft Flight Simulator (MSFS 2020 or 2024).
4. Select the corresponding flight simulator version.
    a. For **MSFS 2020,** select **FS20.**
    b. For **MSFS 2024,** select **FS24.**
5. **Click *Insert Plugin***

This will insert the ***WASimModule*** plugin for MSFS.

- A confirmation pop-up will appear once the plugin is successfully inserted.

6. **Click *Verify Plugin***

This will check that the plugin was inserted correctly.

- A confirmation pop-up will appear upon successful verification.

7. **Open SkySync** and select the version of MSFS:
    a. If the button displays **FS20,** it will connect to **MSFS 2020.**
    b. If the button displays **FS24,** it will connect to **MSFS 2024.**

Setup Instructions

8. Click **Start Connecting** in SkySync to establish the connection between the Primary/Multi Flight Display and the simulator.
    a. Test the Primary/Multi Flight Display by confirming that toggling softkeys/ turning encoders are mirrored by the corresponding changes on the display.
9. Go to the **Devices tab** in SkySync and click the **Settings** icon next to the **G1000**.
    a. (Optional) Click *SWAP* to swap the functionality of the device (from PFD to MFD and vice versa)
    b. If the device does not function properly, click ***VERSION*** to re-calibrate the device's functionality.
10. In MSFS, **select an aircraft with a G1000 avionics** and start flying. *(e.g. Cessna 172 Skyhawk G1000)*
11. Once in the cockpit, hover the mouse over the **PFD** or **MFD** screen and press **`Right Alt`** + **`Left Click`** , then repeat for the other G1000 screen.
    a. Ensure that the keyboard settings are set to default so this shortcut functions correctly.
12. In **SkyView,** click ***IDENTIFY*** to display monitor numbers on all connected screens.
13. Enter the corresponding screen numbers into each designated field:
    a. For example, if the **PFD monitor displays the number 4**, enter **4** in the **PFD text box**.
14. Click **SET SCREEN** to assign and position the **PFD** and **MFD** accordingly.
15. Click the following buttons to place the displays in the G1000 monitors:
    - **Set PFD Screen**
    - **Set MFD Screen**
16. Click the **Add Overlay** button to apply a dimming overlay to the **PFD** and **MFD** monitors.
    a. The overlay dims the screens based on the **Avionics** potentiometer in MSFS, since popped-out G1000 displays don't dim automatically.

Note: G1000 screens must be reopened each time a flight is restarted or Microsoft Flight Simulator is launched.

Troubleshooting Guidelines

Display not turning on

- **Check power supply:** Ensure the 12V 3A adapter is securely plugged into both the device and a working power outlet.
- **Check power cable:** Verify the power cable is not damaged and fully inserted into the device's power slot.

G1000 screen not showing on the display

- **Confirm monitor assignment:** Ensure Windows recognizes the device as an extended monitor.
- **Set display resolution:** Ensure the monitor is set to 1024x768 in Windows Display Settings.

Softkeys or encoders not responding

- **Confirm SkySync is running:** Make sure SkySync Desktop Pilot is open and connected to the device.
- **Reconnect device:** Unplug the USB Type B to Type A cable, wait a few seconds, and reconnect.

Six-Pack Instrument Panel not working

- **Activate in SkyView:** Open SkyView Desktop Pilot and manually enable the six-pack overlay.
- **Close conflicting overlays:** Ensure no other overlays are preventing six-pack mode from displaying properly.
- **Ensure SkySync is running:** Make sure SkySync Desktop Pilot is open and connected to the simulator—this allows the encoder knobs to control the analog instruments.

Troubleshooting Guidelines

Backlight Not Dimming

- **Check simulator potentiometer:** In **MSFS 2020/2024**, adjust the **Avionics potentiometer** inside the simulator. In **X-Plane 11/12**, adjust the **SW/CB potentiometer**.
- **Brightness follows simulator value:** The G1000 dims its backlight based on the current setting in the sim.

LCD Screen Not Dimming (MSFS Only)

- **Add SkyView overlay:** MSFS does not support screen dimming natively. **Open SkyView Desktop Pilot** and click **“Add Overlay.”**
- **Use avionics potentiometer in sim:** After adding the overlay, dimming works through the simulator’s **Avionics potentiometer.**
- **Overlay required:** Without the overlay, the G1000 screen will remain at full brightness.

Device Disconnecting During Use

- **Check USB cable:** Inspect the cable for damage or wear; replace it if necessary.
- **Avoid USB hubs:** Connect the device directly to your PC’s USB port.
- **Test on another PC:** Try the device on a different computer to see if the issue persists.

SkySync not detecting the device

- **Replug USB cable:** Disconnect and reconnect the USB Type B cable.
- **Try a different USB port:** Use a different USB port on the computer.

Frequently Asked Questions

Is the Primary/Multi Flight Display G-1000 compatible with simulator cockpit setups?
Yes, the Primary/Multi Flight Display G-1000 is compatible with simulator cockpit setups. It supports single or dual stand setups, panel and cabinet mounting, and is compatible with the C172 Mounting Panel and Mounting Cabinet (sold separately).

Is the Primary/Multi Flight Display G-1000 compatible with Xbox?
No. The device operates as a Serial Device, which is not supported by Xbox systems.

Does the Primary/Multi Flight Display G-1000 work with both PFD and MFD roles?
Yes. The unit can function as either a Primary Flight Display (PFD) or Multi-Function Display (MFD), with role selection managed via the SkySync Desktop Pilot software. Two units can be used together to form a complete G1000 stack.

Is the device usable without SkySync and SkyView?
No. Both software tools are required for full functionality. SkySync handles simulator communication and avionics behavior, while SkyView manages monitor assignment and display control.

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.com** or **+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!

DESKTOP PILOT