



SOLO D4

USER'S MANUAL

Rev. 1.0 - September 2022



For support, contact us at
support@virtual-fly.com

VirtualFly
BY AIRCATGLOBAL

© 2022 Virtual Fly, SL
All trademarks and brand names are
trademarks or registered trademarks of their
respective owners. All rights reserved.

C. Maria Aurèlia Capmany, 21
P.I. La Fàbrica – 08297 Castellgalí (Spain)
Phone: (+34) 938 333 301
<https://www.virtual-fly.com>

TABLE OF CONTENTS

1. IN THE BOX

2. HARDWARE SETUP

2.1 CONNECTING TO PC

3. SOFTWARE SETUP

4. START UP

4.1 ACTIVATING PROCEDURES

4.2 DEACTIVATING PROCEDURES

9. TROUBLESHOOTING

10. REMOTE ASSISTANCE

11. TECHNICAL SPECIFICATIONS

12. AIRCRAFT COMPATIBILITY

1. IN THE BOX

A) SOLO D4 panel (with incorporated COMPOSS)

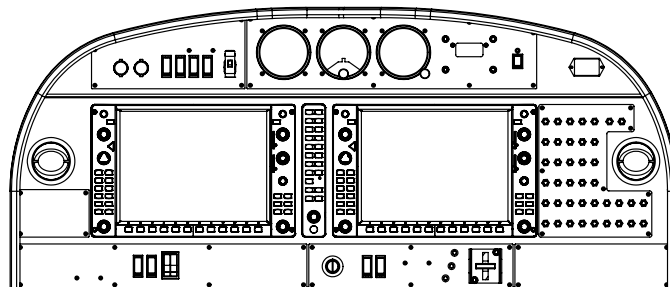
B) Electrical power cable

C) Network cable (Ethernet)

D) USB-B to USB-B Cable

E) USB memory stick

F) SOLO D4 Quick Start Guide



A 1x



B 1x



C 1x



D 2x



E 1x

It is important to save all parts you are not going to use in case you need them in the future.

F 1x



2. HARDWARE SETUP

The SOLO D4 has been developed to be pluggable to any standard Windows computer. The SOLO D4 contains 2 important modules which require cable connections, software installation and configuration:

- SOLO D4 panel itself
- COMPOSS "The Compass"
- VF-G1000 "Glass Cockpit"

2.1 CONNECTING TO PC

After placing the panel on the surface it will rest, you must connect all the modules to the computer running the flight simulation software. To do so, you have two options

- OPTION A: LAN network connection (recommended)
- OPTION B: Direct connection



The power switch must be in "OFF" position before starting.



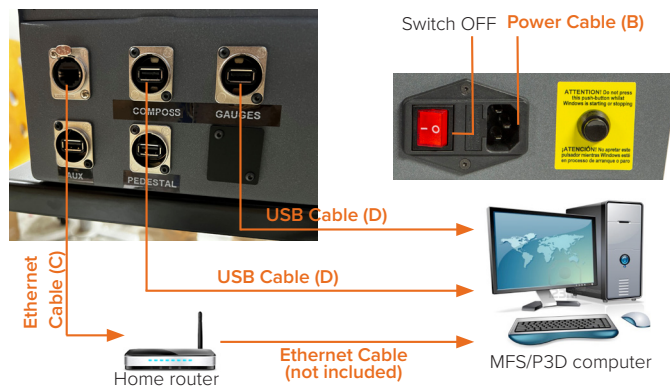
You must connect the power cable (B) last.

OPTION A: LAN Network Connection (Recommended)



An extra Ethernet cable (not included) is required to connect the internet router and PC.

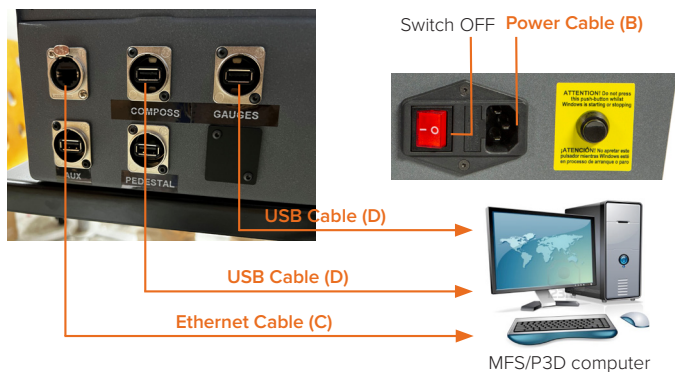
Connect the cables between the back of the panel, router and PC **exactly as indicated in the diagram below**. This option enables the SOLO D4 panel to have an internet connection, which is required if you schedule a remote connection with Virtual Fly technicians.



If you do not have the Pedestal add-on mentioned in Section 5, you can use the USB port labeled as "Pedestal" in the picture above as a secondary auxiliary USB port.

OPTION B: Direct Connection

Connect the cables between the modules and PC as indicated in the diagram below.



If your main PC is connected to a WIFI internet source, the connection between the panel and PC can be unstable.

3. SOFTWARE SETUP

To interact with your PC, the SOLO D4 requires installing some additional software. The SOLO D4 is compatible with Prepar3D.

To set up the SOLO D4 with Prepar3D, you will need to install VFConnect, the software developed by Virtual Fly to enable interaction between our flight pannels and PCs, and FSUIPC. You can download these from the following links:

- **VFConnect:** <https://downloads.virtual-fly.com/software/vfconnect/latest/vfconnect.exe>
- **FSUIPC:** <http://www.fsuipc.com/>
- **G1000 Module:** Included in USB memory stick (E).

If you already have FSUIPC installed, skip this step. During the installation, a registration window will appear, which you must ignore by selecting "Not Now". Restart Prepar3D after the install is complete.

To set up the COMPOSS, follow the "SOFTWARE SETUP" section from the COMPOSS' User's manual: https://downloads.virtual-fly.com/docs/composs/latest/composs_user's_manual.pdf



If you have purchased the Pedestal add-on, you must also check out the "SOFTWARE SETUP" of the TQ3 User's manual: https://downloads.virtual-fly.com/docs/tq3+/latest/tq3_tq3+_user's_manual.pdf

DA-40 F1Tech AIRCRAFT INSTALLATION

The SOLO D4 is only compatible with the Diamond DA-40 from F1Tech. Download the required aircraft folder from the provided USB memory stick (E). You must install this aircraft into the PC running Prepar3D following these instructions:

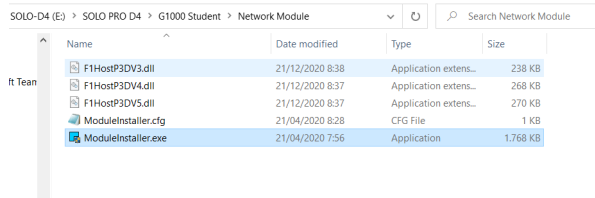


Make sure Prepar3D is closed when doing the following procedure.

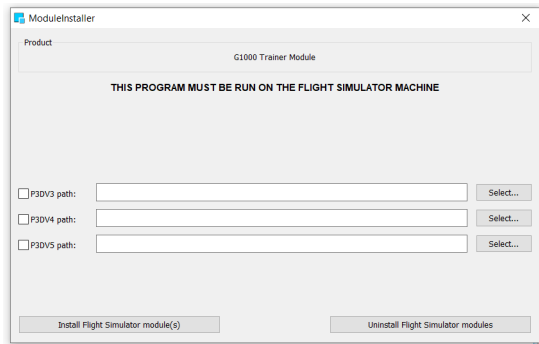
1. Locate the Prepar3D installation root folder. By default, this is at: C:\Program Files\ Lockheed Martin\ Prepar3D v4.
2. Enter the "SimObjects" folder and then the "Airplanes" folder.
3. Place the provided DA40 Aircraft folder inside the "Airplanes" folder.

G1000 MODULE INSTALLATION

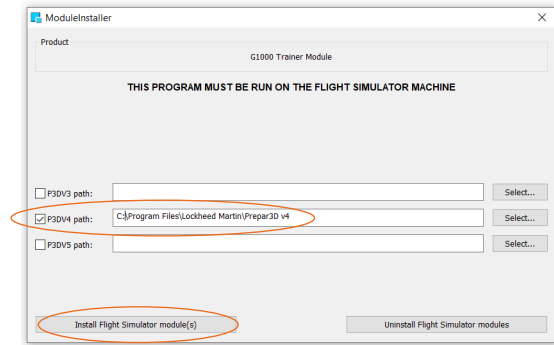
The SOLO D4 requires installing additional software to connect with the G1000 screens. From the provided USB memory stick, open the "G1000 Student" folder. Inside this folder, select the "Network Module" folder and run the "Module installer.exe" program displayed below.



Once the program runs, the following screen below will show up.



Here, you must enter the Prepar3D installation folder path in your computer in the correct location (depending on your Prepar3D version installed) and press "Install Flight Simulator Module(s)". For example, if you have Prepar3D_{v4}, the program would look like the image below.



Your Prepar3D installation path might vary depending on where you installed Prepar3D, but by default, the installation path is the one depicted above.

4. START UP

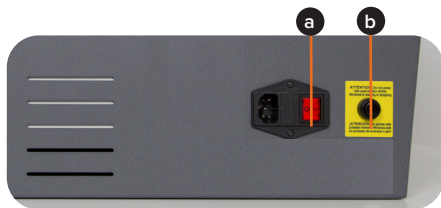
4.1 ACTIVATING PROCEDURES

1. Make sure the BAT switch on the SOLO D4 panel is deactivated.
2. On the PC with Prepar3D installed, run Prepar3D and load your scenario with one of the 3 aircraft installed in Section 3.
3. On the PC running Prepar3D, execute "VFConnect.exe" and "VFHub".



Do not execute "VFConnect.exe" before Prepar3D is completely loaded.

4. Activate the Power switch (a) indicated below to power the SOLO D4.
5. Press the push button (b) to activate the operating system of the panel.



The SOLO D4 must not be disconnected while the programs are loading. Doing so might cause problems with booting in the future.

6. Wait about 60 seconds until you see the G1000 and analogue gauges in the SOLO D4 as shown below.



If you have Windows Firewall activated, a warning permission to communicate with the network will appear. You must select "Allow Access".

The VFConnect software window will look like (a) below if it is not yet connected, and like (b) if a connection has been established successfully between computer and SOLO D4. The upper box indicates the connection status of the simulation software, and the lower box displays the connection status between the SOLO D4 and the computer.



(a) The plugin is searching for P3D and SOLO D4.



(b) The plugin is connected to P3D and SOLO D4.

If you have issues establishing the connection between the SOLO D4 and your computer, please contact Virtual Fly's Technical support at support@virtual-fly.com.

4.2 DEACTIVATING PROCEDURES

1. Press the push button (b) at the back of the SOLO D4 to stop the "Windows" operating system of the panel.
2. Wait until everything is stopped before switching off the SOLO D4's power switch (a).



5. ADDITIONAL HARDWARE OPTIONS

The SOLO D4 has two main add-ons which enhance its functionality by incorporating a control joystick and pedestal based on the DA-40 aircraft. The add-ons add the following functionalities:

JOYSTICK

- Allows elevator and aileron control of the aircraft.
- UP/DN Trim, AP disengage, PTT, CWS capability

PEDESTAL

The pedestal incorporates:

- Throttle Quadrant with throttle, propeller and mixture levers)
- Parking brake lever
- Fuel selector
- Pitch trim wheel
- Alternate Air Selector
- Cabin Heat lever (decorative)
- Defrost Floor lever (decorative)

The panel with the add-ons has the following layout:



To incorporate the joystick and pedestal add-ons, the SOLO D4 panel requires our Flight Deck Structure. This flight deck includes an aeronautical adjustable seat and enables securing the panel, pedestal and joystick into it. The flight deck also has the option to support up to five 32" monitors and our RUDDO pedals can also be attached to it. Altogether, the setup looks

If you need further information on the characteristics and pricing of the joystick, pedestal, flight deck or flight deck optionals, contact us at info@virtual-fly.com. For information regarding our RUDDO pedals, check out its User's manual through the following link: https://downloads.virtual-fly.com/docs/ruddo+/latest/ruddo_ruddo+_user's_manual.pdf



6. TROUBLESHOOTING

Anomaly	Possible Cause	Solution
Prepar3D does not connect to the panel.	Network cable nº 3 is not connected.	Check connection of network cable nº 3 between SOLO D4nd Prepar3D computer.
	Prepar3D is not running.	Execute Prepar3D
	FSUIPC is not installed (Prepar3D).	Install FSUIPC. See Chapter 2.
	“VFConnect3.exe” is not executed.	Execute “VFConnect3-Xplane.exe” on the Prepar3D computer.
	“VFConnect3.exe” started incorrectly.	Only one of “VFConnect” can be executed at the same time, be sure that you are executed the version that corresponds on your simulation software. “VFConnect” will only work with MFS/P3D and VFConnect-Xplane will only work with X-Plane.
	Windows firewall does not allow communication with the SOLO D4.	You will have to add an exception manually to allow communication. For that, follow the steps below: 1. Press combo key Windows + R. 2. Write “firewall.cpl” on the window that has appeared.

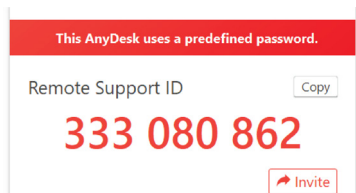
Anomaly	Possible Cause	Solution
Prepar3D does not connect to the panel.	PC has more than one network card.	1. If you are trying to use one network card to connect to your router and another one to connect directly to SOLO D4nd it does not work, try connecting SOLO directly to your router instead of connect to the pc.This way, connection will be established through the network LAN. 2. If you have connected SOLO directly to your PC and your PC has the other network sockets free, try connecting SOLO to the PC using another network card.
	Network problems.	If you have connected your PC and SOLO directly (without router), at the beginning you will have to wait some time, even more than a minute, because Windows set IP addresses automatically.
	Network Discovery disabled.	Check that in your current network profile (Public / Home or Work) Network discovery option is turned on. For that, go to: "Control Panel\All Control Panel Items\Network and Sharing Center\Advanced sharing settings" and turn Discovery Network option on for all profiles available.
	Antivirus software is blocking the connection.	Each Antivirus software has their own options and menus. To see if the problem comes from the antivirus, you can deactivate it completely just for the test. If the connection is established with the antivirus deactivated you should look for an option that allows any connection for VFConnect3.exe.

Anomaly	Possible Cause	Solution
Connection goes down, is intermitent or indicators move sharply.	Connection trough Wifi.	If you are using a PC which is connected to your network by Wifi, even SOLO is connected by cable, it is possible that due to interference, noise or other electromagnetic signal, connection will not be constant. It is so recommendable using always a network cable to connect SOLO to the router and your PC to the router also, or alternatively a direct cable between your PC and SOLO to enjoy completely of your SOLO.
	Your MFS / P3D / X-Plane PC is executing another program on the background that uses all the bandwidth of the network card.	To guarantee the best perform of the connection, it is recommendable during the session, to close programs which make an intensive use of the network connection or computer processor.
I don't know how to connect the flight director.		Push on the rotary "A.I. PUSH F/D" located above left of the panel.

7. REMOTE SUPPORT

In case you need help from Virtual Fly's technical team, there is the possibility to schedule a remote connection to your flight simulator computer and SOLO D4. For that, you should:

1. Ensure your flight simulator computer and SOLO D4 are connected to the internet. For this, you should have a LAN Network connection as described in Section 2.1 "CONNECTING TO PC"
2. Download and run the following software for your PC running the flight simulation software: https://downloads.virtual-fly.com/software/VirtualFly_Remote_Support_Tool.exe
3. Take note of the code that appears in your PC screen, as displayed below:



4. Turn on your SOLO D4 and turn the BAT and AVIONCS switch off. Turn the HORIZON EMERGENCY switch from OFF to ON.

5. Wait until the Anydesk software loads and take note of the ID code that appears on the G1000 screen.



6. Contact Virtual Fly's technical support team at support@virtual-fly.com to:
 - Schedule a remote session.
 - Provide them with the Anydesk ID codes from your PC and SOLO D4.

8. TECHNICAL SPECIFICATIONS

Power Supply: 115-230 VAC, mono, 50-60 Hz

Nominal intensity: 0,75 A

Compatibility: Prepar3D

