

## DESCRIPTION

The flight sim is configured using three 65 inch 4K TV's and two 24 inch touch screen monitors with Altimeter Motive's G5 panel or when removed, Air Manager and knobsters for both touch screens in multiple configurations. The 65 inch TV's are mounted on a Next Level Racing monitor stand. The front TV runs in 4K and the two side TVs run in 3K, with the two touchscreens operating at 1080p using a USB to dual DVI adapter all on one computer. The computer runs with a 14900K Gen 14 Intel CPU, 64GB of DDR5 RAM and a 4090 GPU for graphics. The 24 inch touchscreen monitors (instrument panels with Air Manager and sometimes fitted with hardware panels from Altimeter Motives) are mounted on a modified Flight Stand Pro from Next Level Racing. Flight controls include Virpil Throttles, Constellation Alpha Prime Joystick on a warbird base and Thrustmaster TPR pedals. The flight controls are mounted using magnets on the base and steel plates on seat supports from Monster Tech or Sim Fab. Other sim accessories include a 32 key Stream Deck, computer touch pad, a Flight Sounds Ltd. DualPro – GA flight sim intercom, Sierra ANR aviation headset and a ButtKicker Gamer Plus haptic device. I have recently purchased a GMC 710 autopilot and the WinWing Airbus FCU.

NOTE – I use magnet mounts on flight controls for flexibility and adaptability in my Sim. While I have not specifically seen where magnetic base mounts are recommended or discouraged by manufactures and I have not experienced any performance issues personally, I would caution to use at your risk.

## FLIGHT SIMULATOR HARDWARE/SUPPORT

**Next Level Racing Flight Stand Pro (NLR-S032) (\$499)**

<https://a.co/d/h2GE67P>

**VIVO Steel Universal Bracket Pole Mount with Removable 75mm and 100mm VESA Plate, Fits up to 30 inch Screens, Black, MOUNT-POLE01 (\$19.99) X2** *NOTE: I purchased the poles separately. The poles are mounted at the back of the Flight Stand Pro. The quick disconnect VESA adapters which I used, bring the monitor far enough forward to clear the front of the stand. This could also be accomplished with VESA stand offs on the VESA mount.*

<https://a.co/d/c92OjT2>

**VIVO Adapter VESA Mount Quick Release Bracket Kit, Stand Attachment and Wall Mount Removable VESA Plate for Easy LCD Monitor and TV Screen Mounting, Stand-VAD2 (\$15)**

<https://a.co/d/27A932a>

**VIVO Clamp-on Single Ultra Wide Monitor Desk Mount, Low Profile Heavy Duty Adjustable Stand for 1 Ultrawide Screen up to 45 inches, 25 lbs Capacity, Black, STAND-V100C (\$39.98)** *NOTE – I did not purchase this particular set but this could work for both the pole and mount. I cut the pole down to below the level of the top of the monitor so that it would not protrude.*

<https://a.co/d/35UKhoz>

**Next Level Racing TV/Monitor Stand (\$379)**

<https://a.co/d/7EV7W87>

## **MONITORS/DISPLAYS**

**24 inch touchscreen monitors - ASUS 24" 1080P Multi-Touch Monitor (BE24ECSBT) (\$329)  
quantity – 2**

<https://a.co/d/gePgsJH>

**65 inch Gaming TV - TCL model 65Q650G Sale Price (\$559) quantity – 3**

<https://a.co/d/2I4zVJL>

**WIMAXIT 15.6" Touch Screen Portable Monitor - FHD 1080P, USB C and HDMI  
Connectivity, IPS Panel for Gaming and Work with Leather Cover and VESA Mount (\$158)**

**NOTE – these monitors have a beautiful display with deep blacks. Air Manager instruments  
look incredible on these displays. For \$158 per monitor and with air manager at €65.00 /  
Knobster € 95,00, one could operate just about any instrument/avionics available.**

<https://a.co/d/5uEURBo>

## **AVIONICS/CONTROLS**

**VIRPIL (VPC)**

**VPC MongoosT-50CM3 Throttle (\$399.95)**

<https://virpil-controls.us.com/vpc-mongoost-50cm3-throttle.html>

**VPC SharKa-50 Control Panel (\$299.95)**

<https://virpil-controls.us.com/vpc-sharka-50-control-panel.html>

**VPC Flight Panel 3 (\$289.95)**

<https://virpil-controls.us.com/vpc-universal-control-panel-3.html>

**VPC WarBRD-D Base (\$259.95)**

<https://virpil-controls.us.com/vpc-warbrd-d-base.html>

**VPC Constellation ALPHA Prime [R] (\$289.95)**

<https://virpil-controls.us.com/vpc-constellation-alpha-prime-r.html>

**VPC Constellation ALPHA Prime [L] (\$289.95)**

<https://virpil-controls.us.com/vpc-constellation-alpha-prime-l.html>

**VPC Rotor TCS Plus Base (\$350)**

<https://virpil-controls.us.com/vpc-rotor-tcs-plus-base.html>

**VPC Hawk-60 Collective Grip (\$220)**

<https://virpil-controls.us.com/vpc-hawk-60-collective-grip.html>

**Thrustmaster TPR Pedals Worldwide Version (PC) (\$603)**

<https://a.co/d/0MhIZeY>

**Knobster (€ 95)**

<https://www.siminnovations.com/buy/product/57-knobster>

**Altimeter Motives G5 Panel (\$385)**

<https://altimetermotives.com/current-products/ols/products/dual-g5s-flatscreen-instrument-panel-w-controls-for-cessna-172-flight-simulators>

**Altimeter Motives Baron 58 Twin Panel (Not currently available)**

<https://altimetermotives.com/>

**KEYMECHER Mano 703 Touchpad, External Bluetooth High Precision Trackpad  
Compatible for Windows 10 & 11, Multi-Gesture Wireless Touchpad Mouse for Desk (\$50)**

<https://a.co/d/5PXXUBP>

**Logitech K400 Plus Wireless Touch With Easy Media Control and Built-in Touchpad (\$28)**

<https://a.co/d/fXtvEia>

**Elgato Stream Deck XL – Advanced Studio Controller, 32 macro keys, trigger actions in apps and software like OBS, Twitch, YouTube and more, works with Mac and PC (\$236)**

<https://a.co/d/0XiOU6h>

**Universal Mounting Bracket Fits The 32 Key Elgato Stream Deck XL. Perfect for Sim Racers, Flight Simulators, Streamers, & Workstations. (\$35)**

<https://a.co/d/68qE44Z>

**Avionique Simulation GMC 710 Autopilot panel (€209)**

<https://avioniquesimulation.com/product/gmc-710-autopilot-panel/>

**WinWing FCU Unit 1 (\$105)**

<https://us.winwingsim.com/view/goods-details.html?id=550>

## ACCESSORIES

**UTEBIT 11 inch Magic Arm, Camera Mount Articulating Friction Arms with Super Crab Clamp for DSLR Camera Rig, Flash Light, LED Lights, LCD Monitor (\$24)**

<https://a.co/d/6Bkk6Px>

**Super Crab Clamp with 1/4"-20 Mounting Points for Photo Studio Kit(2 Piece,Black) (\$13.96)**

<https://a.co/d/8qz6LuC>

**2 Pack Mini Clamp DAC-25 Desmond 25mm Arca-Swiss Compatible w 3 Strap Bosses Boss (\$20)**

<https://a.co/d/dLQjxKK>

**50mm Quick Release Plate Fits Arca-Swiss Standard for Camera Tripod Ballhead (Pack of 2) (\$12)**

<https://a.co/d/aMumnEM>

**SHINEWEE Metal iPad Holder for Tripod Mount, 1/4" Screw, Acra/RRS Rail Plate Mounts, Fits iPad 1 2 3 4 5 Mini Air Pro, Universal Tablet iPad Clamp Holder Stabilizer Adapter (\$30)**

<https://a.co/d/dnRsKnr>

**ULIBERMAGNET 2Pack Anti-Scratch 60lb Strong Neodymium Round Rubber Coated Magnet with D1/4"-20 Female Thread, Strong Magnetic Mounting with D1/4"-20 Hole for Lighting,Camera,Tools (\$22)**

<https://a.co/d/0DKc7Wo>

**6Pcs Super Strong Magnets Heavy Duty,1.4"(36mm) Round Base Rare Earth Magnets with Holes,95LBS Neodymium Countersunk Magnets with Stainless Screw for Wall Cabinets Refrigerator Kitchen Tools Hanging – In sim used for mounting controls (\$16)**

*NOTE – the 6.4 mm hole in these magnets is critical. There are magnets with smaller holes which would not accomodate the fasteners needed to bolt these to common flight controls. These magnet holes cannot be drilled.*

<https://a.co/d/flEd4h8>

**6 Pcs 6.5" x 3.5" Post Anchor Base Steel Plates for 4x4 Wood Joint, Wood Post Connector Plate, 1/8" Thickness (\$26) (Steel Plates for magnet mounted flight controls)**

<https://a.co/d/4WttcN>

**VIVO Aluminum C-Clamp with 1/4 inch-20 and 3/8 inch-16 Female Socket for Tables, Desk Mount, 1.8 inch Maximum Desktop Thickness, 2 Clamps, MOUNT-CP02 (\$20)**

<https://a.co/d/aQOwetu>

**Headliner - NEEWER Chromakey Backdrops, Double Sided Black Screen and White Screen (\$54)**

<https://a.co/d/1HNrsEm>

**Hooks 304 Stainless Steel Hooks Heavy Duty Magnets Hanging Hooks (\$17)**

<https://a.co/d/a99lbfD>

**Super Clamp with Ratchet Handle (\$29)**

<https://a.co/d/fSkT34M>

**Aluminum Alloy Multi Functional Heavy Duty 2.5 inch Grip Head Swivel Head Clamp Holder Bracket Adapter with 1/2",1/4",3/8", 5/8" Mount for Light Stand, Extension Boom Arm,Photographic Equipment (\$25)**

<https://a.co/d/jfOcz2j>

**Kupo Long Double Stud - 5/8in (KG008512) (\$7)**

<https://a.co/d/7Q2gWqd>

**Gibraltar B9608 Throne Base (\$120)**

<https://a.co/d/2VwYydu>

**Roc-n-Soc Manual Spindle Drum Throne Seat Mount (\$30)**

<https://www.nstuffmusic.com/p-147622-roc-n-soc-manual-spindle-drum-throne-seat-mount.aspx>

**Powered USB Hub - ACASIS 16 Ports 90W USB 3.0 Data Port, Aluminum Housing, Individual On/Off Switches, 12V/7.5A Power Adapter, 5Gbps High Speed, USB 3.0 Hub for Laptop, PC, Computer, Mobile HDD (\$70)**

<https://a.co/d/jlYF89w>

**Plugable 4K DisplayPort and HDMI Dual Monitor Adapter for USB 3.0 and USB-C,**

Compatible with Windows and Mac (\$81)

<https://a.co/d/3oKmrCH>

## COMMUNICATION

**DualPro-GA (General Aviation) A premium General Aviation intercom for your Flight Simulator! (\$329)**

<https://flightsounds.com/products/dualpro-ga-general-aviation>

**Sierra ANR Aviation Headset with Bluetooth (\$700)**

<https://a.co/d/aOW0RMT>

**David Clark H10-13.4 Aviation Headset (\$385)**

<https://a.co/d/8OvsgMt>

**LEVN Wireless Headset, Bluetooth Headset with Noise Canceling Microphone & Charging Base, 65 Hrs Working Time 2.4G Headset with Microphone for PC/Laptop/Computer/Remote Work/Call Center/Zoom (\$72)**

<https://a.co/d/0VWBVkm>

## SIM SEAT

**Large Desk Cup Holder, Clip On Table Anti-Spill Cup Holder for Lawn Chair, Horizontal or Vertical Mount, Pack of 1, Black (\$12.69)**

<https://a.co/d/2RjmUJi>

**Stem Caster Wheels Heavy Duty Casters PVC M8-1.25x1" (Stem Diameter 8mm, Stem Length:1") Casters with Brake Dual Locking for Home, Office, Industry use (3 Inch, with Brake) (\$26) *NOTE verify that Caster Stems are the right diameter and threads for you application.***

<https://a.co/d/0N3peuA>

**Big and Tall Gaming Chair with Footrest 350lbs-Racing Style Computer Gamer Chair, Ergonomic High Back PC Chair with Wide Seat, Reclining Back, 3D Armrest, Headrest and Lumbar Support for Adult-Black (arms and base removed) (\$180)**

<https://a.co/d/cCgtIZK>

**SimFab Modular Flight Simulator Pit For General, Civil and Commercial Aviation, MSFS Edition, Compatible With Logitech, Honeycomb, Turtle Beach, CH Products (Red) (\$599)**

*NOTE – I did not purchase the seat. I purchased componants individually from Sim Fab to meet my requirements.*

<https://a.co/d/702UfHL>

**SIM FAB WEBSITE**

<https://simfab.com/>

**Hottoby Rear Seat Stand Racing Wheel Frame Parts/Accessories Mounting Seat Installable Most Chair Stand Simulator Cockpit Wheel & Pedals Not Included (\$72) *NOTE – I am replacing this seat frame with a Sim Fab seat and flight control supports***

<https://a.co/d/arbAYV3>

**JOYSTICK / HOTAS CHAIR MOUNT (\$118)**

<https://www.monster.tech/en/product/joystick-hotas-chair-mount/>

**Buttkicker Gamer Plus**

<https://thebuttkicker.com/products/buttkicker-gamer-plus>

## COMPUTER

14900K Gen 14 Intel CPU

64GB DDR5 RAM

4090 GPU for graphics

## SOFTWARE

**MSFS 2020 Deluxe Edition PC**

**Siminnovation Air Manager (\$70)**

<https://www.siminnovations.com/buy/product/65-air-manager-4-home-use>

**MSFS Popout Manager**

[Flightsim.to](https://flightsim.to)

**PMS50 GTN 750 (avionics addon) (~ \$50 premium lifetime)**

<https://pms50.com/msfs/>

**Navigraph Charts (Annual Subscription) (~ \$82 yearly)**

<https://navigraph.com/>

**Stream Deck Flight Panels**

[https://flightpanels.io/en-us?](https://flightpanels.io/en-us?srsltid=AfmBOor8xvuOIQCURWTrPYDkSSCjFOalzqSD_iVy8Gnipl6SOxMFUP9v)

[srsltid=AfmBOor8xvuOIQCURWTrPYDkSSCjFOalzqSD\\_iVy8Gnipl6SOxMFUP9v](https://flightpanels.io/en-us?srsltid=AfmBOor8xvuOIQCURWTrPYDkSSCjFOalzqSD_iVy8Gnipl6SOxMFUP9v)

**Experimental Sim Avionics. Specialized Aircraft Instruments and Panels for Air Manager**

<https://experimentalsimavionics.com/>

**Just Flight Black Square Aircraft**

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

**Parallel 42 Flo Pro (\$30)**

[https://parallel42.com/products/flow-pro?](https://parallel42.com/products/flow-pro?srsltid=AfmBOor2d1jpuKoa8G7iTROPSd9cGs47DThHFqEn3eU4L7xyHjqZ1IKx)

[srsltid=AfmBOor2d1jpuKoa8G7iTROPSd9cGs47DThHFqEn3eU4L7xyHjqZ1IKx](https://parallel42.com/products/flow-pro?srsltid=AfmBOor2d1jpuKoa8G7iTROPSd9cGs47DThHFqEn3eU4L7xyHjqZ1IKx)

## SIM TRAINING

**Flight Sim Coach**

<https://flightsimcoach.com/>