



# **VIRPIL**

## **VPC MongoosT-50 Grip User Manual**

Version 1.3 - 09/2017

# VPC MONGOOST-50® GRIP

## USER MANUAL

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### INTRODUCTION

This manual is intended to be used as a reference on the technical features and capabilities, functionality and operation guidelines of the VPC MongoosT-50® Grip.

### VPC MONGOOST-50® GRIP OVERVIEW

The main objective when developing the VPC MongoosT-50® project was to design a control set with all the required functionality and ergonomics for piloting modern virtual aircraft in the home cockpit. The VPC MongoosT-50® Grip is based on the controls found in modern Russian fighter jets, but with many design adjustments to take into account the nuances of virtual aircraft piloting in the home.

The VPC MongoosT-50® Grip is the first product developed by VPC, the design and testing stages involved a large team of virtual, and real pilots that considerably influenced its final shape, layout and functionality.

The VPC MongoosT-50® Grip puts a huge variety of controls at the hands of virtual pilots including; 2 x triggers, 5 x buttons, 3 x 4-way hats, 1 x 2-way switch and an analogue brake lever.

To reduce hand fatigue and allow for more prolonged flight sessions, the VPC MongoosT-50® Grip can be mounted with a rotational offset, also included is an adjustable wrist rest to tailor the grip to your hand size.

The VPC MongoosT-50® Grip is designed to allow precise and complete control of all different virtual aircraft, including jets, helicopters, prop planes and spacecraft.

The VPC MongoosT-50® Grip is primarily designed to be combined with the VPC MongoosT-50® Base, but it is also compatible with Thrustmaster® HOTAS Warthog™ and HOTAS Cougar™ base units.

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**SPECIFICATION**

**Interface:** Mini DIN 5 Pin

**Dimensions (W x H x D):** 74 mm x 245 mm x 128 mm

**Weight:** 230 g

**Switch Type:** OMRON

**Functions:**

- 1 x Dual-stage Trigger
- 1 x Folding Trigger
- 5 x Buttons
- 3 x 4-way Hats
- 1 x 2-position Switch
- 1 x Analog Brake Lever

Operating Ambient Temperature: +5°C to +40°C

Humidity: 45% to 80%

Atmospheric pressure: 760 ± 40 mm. Hg. Art.

Required for operation of the VPC MongoosT-50® Grip:

- The user must have working knowledge of their computer hardware and the operating system/software.
- Compatible Base\*

**\*Note:** Compatible Bases:

- VPC MongoosT-50® Base
- Thrustmaster® HOTAS Warthog™ Base
- Thrustmaster® HOTAS Cougar™ Base

**WHAT'S INCLUDED**

Included with the VPC MongoosT-50® Grip:

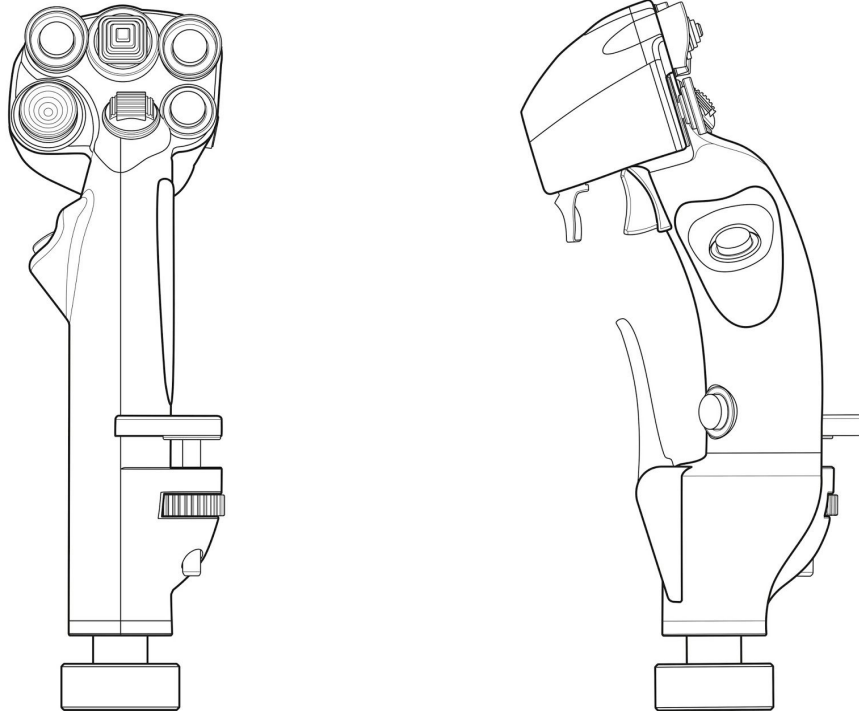
- VPC MongoosT-50® Grip
- User Manual
- Packing Slip
- Warranty Card
- Packaging

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### USING THE VPC MONGOOST-50® GRIP

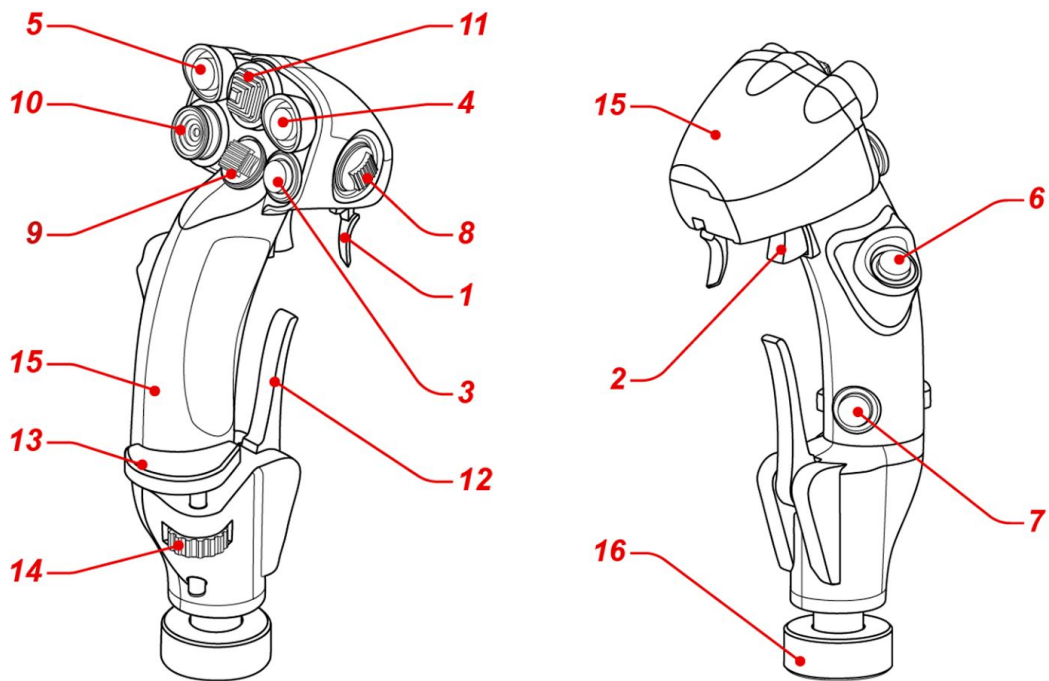


### INSTALLING THE VPC MONGOOST-50® GRIP

1. Disconnect the base from the PC by unplugging the USB cable.
2. Remove the existing grip according to the instructions provided for your chosen base.
3. Carefully place the VPC Mongoost-50® Grip onto the base connector, ensuring the correct orientation of the 5 pin mini-DIN connector to avoid damage. **Note:** If the 5 pin mini-DIN connector is not correctly seated, you will experience issues such as buttons responding erratically or not at all.
4. Rotate the VPC Mongoost-50® Grip to your desired offset, and hand tighten the screw-collar to ensure secure attachment to the base. **Note:** To avoid damage to the internal wiring, do not rotate the VPC Mongoost-50 Grip by more than 180°!
5. Place the joystick on your desktop or mount with the VPC Desk Mount.
6. Adjust the wrist rest platform to your desired height using the adjustment dial. If required, the wrist rest can be removed entirely.
7. Connect the base to the PC with it's USB cable.
8. Using either the configuration software for your chosen base, or directly inside the simulation, setup your axes and button assignments as normal.

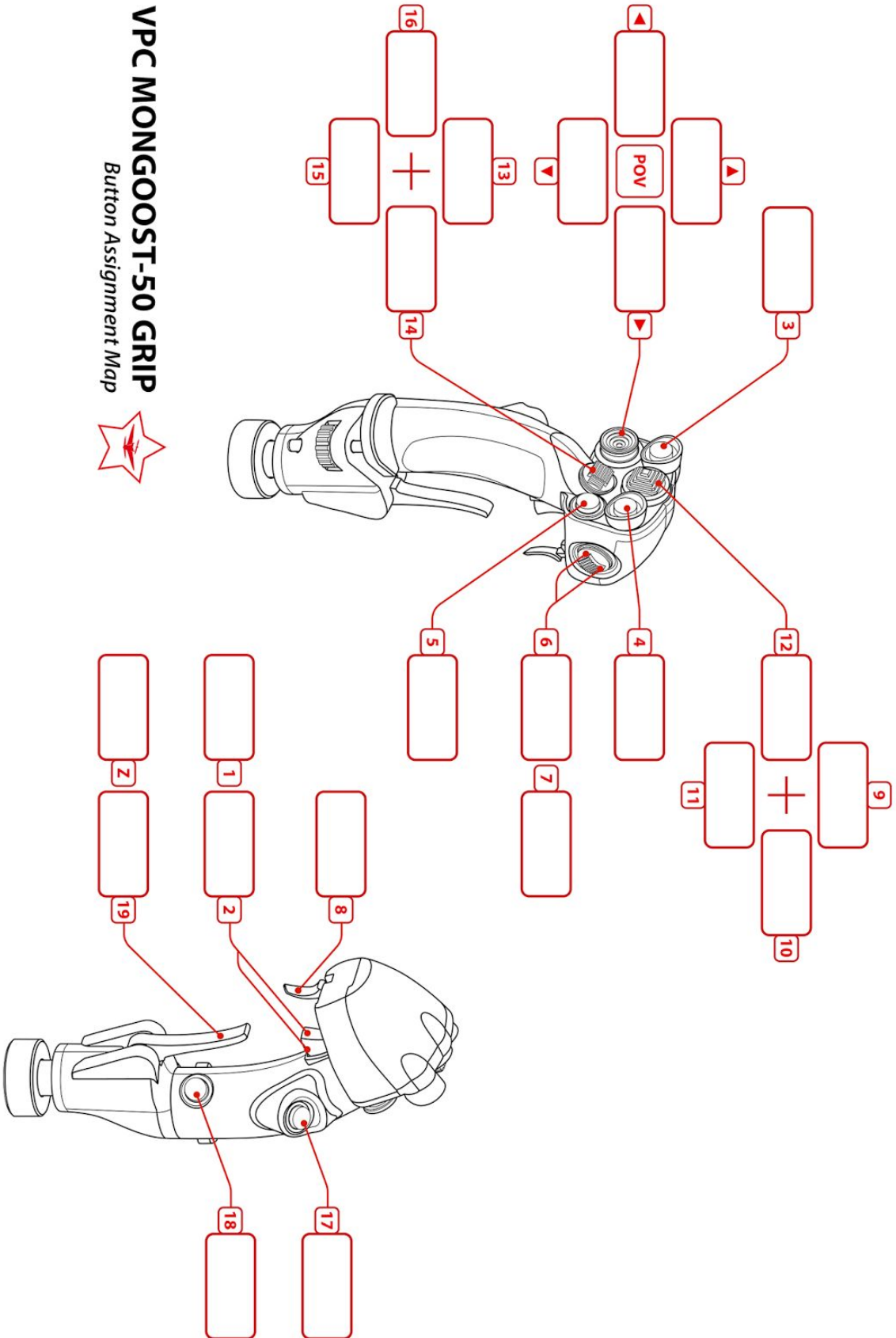
**You are now ready to fly with the VPC Mongoost-50® Grip!**

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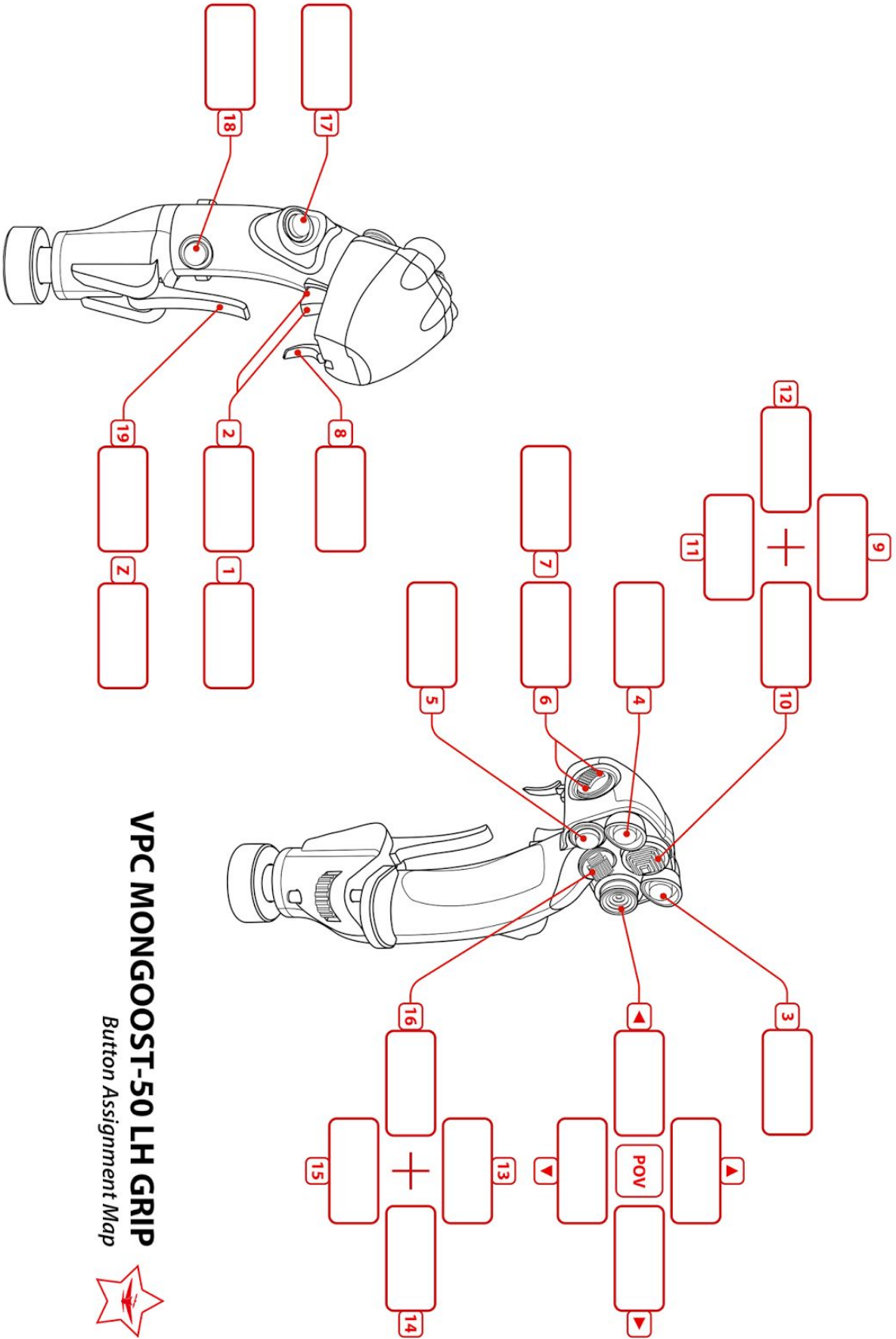
No.	Control Type	Example Function (DCS Su-27)
1	Flip Trigger	Target Lock / Fire Rocket / Trigger 1
2	Dual Stage Trigger	Fire Cannons / Trigger 2
3	Momentary Button	Weapon Select
4	Momentary Button	Align to Horizon
5	Momentary Button	Toggle ACS/CDS / Autopilot
6	Momentary Button	Unlock Target
7	Momentary Button	Cycle Radar Modes / Chaff
8	Momentary 2-Way Switch	Airbrake / Flaps
9	4-Way Hat	Pitch Trimmer
10	4-Way Hat	Tagged/Gate Control (DVB/Strobe)
11	4-Way Hat	P.O.V
12	Analogue Brake Lever Axis + Button	Brake Lever (Axis) / Override Limit Modes (Button)
13	Wrist Rest	-
14	Wrist Rest Height Adjustment Dial	-
15	Grip Body	-
16	Screw Collar	-

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**VPC MONGOOST-50 GRIP**  
Button Assignment Map

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**VPC MONGOOST-50 LH GRIP**  
Button Assignment Map



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### UNPACKING AND INSPECTION

After receiving your VPC MongoosT-50® Grip, please check the contents of the box against the packing list.

Check the condition of the product, ensuring there is no cracks, deformations, damage or other defects on the product surface or components.

### MAINTENANCE

Any maintenance should be carried out in a disconnected (not working) state. The USB cable of the joystick base must be disconnected from the PC.

To clean the VPC MongoosT-50® Grip, gently wipe the surface of the grip and buttons with a soft lint-free cloth.

If the grip has become heavily soiled, wipe it with a soft lint-free cloth that is slightly dampened with water or a weak solution of neutral detergent, then wipe dry. Do not allow water or cleaning agents into the body, as this can cause damage.

Do not scratch hard and sharp objects on the grip surface or buttons to avoid cosmetic damage.

Do not expose the grip to aggressive chemicals as this can adversely affect the appearance, and can cause internal damage to the components.

### STORAGE

The product should be stored in the original packaging, in a heated and ventilated room at temperatures from +5°C to +40°C, relative humidity up to 80%, with the absence of chemically active vapours.

### TRANSPORTATION

The product should be packaged securely to avoid any damage during transit.

Transportation of the packaged products is subject to the ambient temperature from -10°C to +50°C.

After transporting the product allow the product to return to room temperature before operating.

### REPAIR

Do not attempt to open the product! The product does not contain any parts or components that can be self-repaired. Opening the product will void the included manufacturer's warranty.

In the event of any faults (non-operational buttons, switches, broken trigger, etc), partial or complete failure of the products (cracks in the body, broken Mini DIN 5 connector etc.), you must contact the manufacturer or the nearest authorized service centre. Further information can be found on [www.virpil.by](http://www.virpil.by).



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**WARRANTY**

The manufacturer's warranty is 12 months which begins from the purchase date, provided that the user observes the rules of storage, transportation and use.

<b>Product</b>	VPC MongoosT-50® Grip / LH Grip / BE Grip
<b>Manufacturer</b>	VIRPIL CONTROLS
<b>Business Address</b>	Kosmonavtov Ave. 9-17, Grodno, 230025, Belarus
<b>Postal Address</b>	P/B 83, Grodno-23, 230023, Belarus
<b>Warranty Period</b>	12 Months

During the warranty period, the manufacturer will repair or replace faulty or non-functioning products with the availability of the warranty card.

This product is not subject to mandatory certification.

We reserve the right to make changes and modifications (changes to the technical specifications) in our products without prior notice.