Thrustmaster 4060254

Thrustmaster Viper TQS Mission Pack User Manual

Model: 4060254 | Brand: Thrustmaster

1. INTRODUCTION

The Thrustmaster Viper TQS Mission Pack is a high-fidelity 1:1 scale replica of the F-16 Viper throttle and control panel, designed for PC combat flight simulation. This system offers an immersive and realistic experience with its robust metal construction, numerous action buttons, and precise control axes. It is engineered to provide authentic flight kinematics, including Idle/Cutoff and Afterburner detents, and features a comprehensive control panel with backlit buttons and switches. The Viper TQS is compatible with PC and offers plug-and-play functionality with popular flight simulators like DCS World, enhancing your virtual cockpit experience.

Figure 1: The Thrustmaster Viper TQS Mission Pack, showcasing the throttle quadrant and integrated control panel.

2. Key Features

- **1:1 Scale Replica:** Authentic reproduction of the F-16 Viper throttle and control panel.

- **Metal Construction:** Durable and premium feel for critical components.

- **High Precision:** Surgical precision (16-bit resolution, 65,635 values) thanks to H.E.A.R.T (HallEffect AccuRate Technology) magnetic sensor.

- **Extensive Controls:** 64 action buttons (including 13 virtual buttons), 6 axes, and disengageable detents.

- **Realistic Detents:** Access to Idle/Cutoff and Afterburner detents via mechanical levers and handle rotation.

- **Integrated Backlit Panel:** Legendary control panel of the Viper, backlit with adjustable indicator lights.

- **Adjustable Friction:** Customize the throttle's travel resistance for personalized feel.

- **CHAFF/FLARE Slap Switch:** Iconic control for deploying countermeasures.

- **Plug and Play:** Automatically recognized in DCS World, simplifying setup.

3. SETUP

3.1 Package Contents

- Viper TQS Throttle Quadrant System
- USB-A to USB-C Cable
- Hex Wrench for friction adjustment

3.2 Connecting Your Device

To connect your Thrustmaster Viper TQS Mission Pack to your PC, use the provided USB-A to USB-C cable. Insert the USB-C end into the port on the back of the throttle quadrant unit and the USB-A end into an available USB port on your computer. The device is designed for plug-and-play compatibility with DCS World, meaning it should be automatically recognized without additional driver installation. For other flight simulators, such as Falcon BMS, some setup and configuration may be required within the simulator's control settings.

Figure 2: Side view of the Viper TQS, showing the connection port.

3.3 Official Product Overview

Video 1: An official product video from Thrustmaster VG, showcasing the features and functionality of the Viper TQS Mission Pack.

4. OPERATING INSTRUCTIONS

4.1 Throttle Handle Functions

The throttle handle is a 1:1 scale replica of the F-16 Viper's throttle, offering realistic movement and tactile feedback. It features distinct detents for Idle/Cutoff and Afterburner. To move the throttle from the Idle/Cutoff position to Idle, pull the pinky lever located on the underside of the handle and lift the throttle. To engage Afterburner from the Mil Power position, simply push the throttle forward without needing to pull the pinky lever.

- **Dogfight Switch:** Engages or disengages dogfight mode.

- **Missile Override Switch:** Prioritizes missile controls.

- **Speed Brakes:** A spring-back switch for momentary activation in one direction, and a held position in the other.

- **Radar Cursor:** A precise control for radar manipulation, featuring a depress function.

- **Communication Switch:** Used for in-game communications.

- **CHAFF/FLARE Slap Switch:** Located on the top of the throttle base, this switch allows for quick deployment of countermeasures by slapping it, mimicking the real F-16.

Figure 3: Close-up view of the throttle grip, highlighting the various buttons and switches.

Figure 4: The throttle handle shown in an extended position, demonstrating its range of motion.

4.2 Control Panel Functions

The integrated control panel features 43 metal action buttons (including 11 virtual buttons), a trim wheel (axis), and MODE and PGRM rotary selectors on the CMDS panel. The panel is backlit, providing clear visibility of controls in various lighting conditions. The landing gear lever and jettison function are also replicated for enhanced realism.
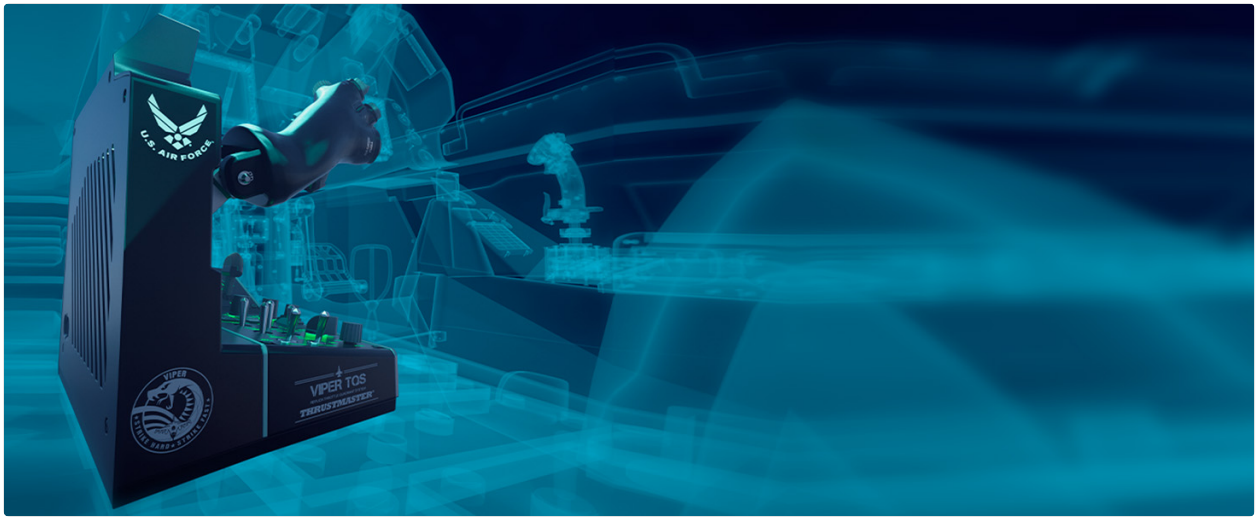
Figure 5: Detailed view of the backlit control panel with its array of switches and buttons.

5. MAINTENANCE

5.1 Adjusting Friction

The Viper TQS allows for adjustment of the throttle's friction to suit your preference. A hex wrench is provided for this purpose. Locate the adjustment screw on the back of the unit. Insert the hex wrench and turn it clockwise to increase friction or counter-clockwise to decrease friction. It is recommended to make small adjustments and test the feel until the desired resistance is achieved.

Figure 6: Illustration of the friction adjustment mechanism on the rear of the unit.

5.2 General Care

- Keep the unit clean by wiping it with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- Store the unit in a dust-free environment when not in use.
- Avoid exposing the unit to extreme temperatures or direct sunlight.

6. Troubleshooting

6.1 Common Issues

- **Device Not Recognized:** Ensure the USB cable is securely connected to both the unit and the PC. Try a different USB port or cable. Restart your computer.

- **Buttons/Switches Not Responding:** Verify that the device is properly recognized by your operating system and flight simulator. Check in-game control settings for correct assignments.

- **LED Lights Not Functioning:** Some LED functionalities may require specific software configuration (e.g., Thrustmaster T.A.R.G.E.T software) or in-game settings, especially for advanced indicators like landing gear lights. Refer to online forums or manufacturer support for detailed setup guides.

- **Throttle Movement Feels Off:** Adjust the friction using the provided hex wrench as described in Section 5.1.

7. Specifications

Feature	Detail
Model Number	4060254
Product Dimensions	13.8 x 11.7 x 13.4 inches
Item Weight	9.8 pounds
Connectivity	USB (USB-A to USB-C cable included)
Axes	6
Action Buttons	64 (including 13 virtual buttons)
Sensor Technology	H.E.A.R.T (HallEffect AccuRate Technology) magnetic sensor
Resolution	16-bit (65,635 values)
Compatibility	PC (Windows)
Manufacturer	Thrustmaster
Country of Origin	China

8. Warranty and Support

Thrustmaster products are covered by a manufacturer's warranty. For detailed information regarding warranty terms, technical support, and service, please visit the official Thrustmaster website or contact their customer

support directly. Keep your proof of purchase for warranty claims.

Online Resources:

- Thrustmaster Official Website: www.thrustmaster.com

- Product Support Page: Refer to the specific product page on the Thrustmaster website for drivers, firmware updates, and FAQs.

Related Documents - 4060254

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[Thrustmaster TCA Quadrant Airbus Edition User Manual and Guide](#)

Official user manual for the Thrustmaster TCA Quadrant Airbus Edition flight simulation throttle quadrant. Includes installation, setup, features, troubleshooting, and warranty information.

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