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› Dynam DYU-1002 6-Channel USB RC Flight Simulator User Manual

Dynam DYU-1002

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1. INTRODUCTION

This manual provides instructions for the proper setup and operation of your Dynam DYU-1002 6-Channel USB RC Flight Simulator. This device is designed to enhance your remote control flight training experience by connecting to your personal computer.

Key Features:

- 6-Channel Flight Model Simulator
- Mode 2 (Left Throttle) configuration
- USB connectivity, requiring no external power supply
- Functions as a real transmitter for various flight simulation software

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x Dynam DYU-1002 6-Channel USB RC Flight Simulator Controller with integrated USB cable



Image 1: The Dynam DYU-1002 RC Flight Simulator controller with its integrated USB cable, ready for connection.

3. SETUP

3.1 System Requirements

To ensure proper functionality, your computer system must meet the following minimum requirements for compatible software such as FMS (Free Open Software):

- **Processor:** 100% Pentium IV or AMD 64 compatible processor with at least 1600mHz

- **RAM:** 256MB
- **Hard Disk Space:** 1GB free
- **Graphics Card:** Open GL compatible with at least 128MB
- **Sound Card:** 100% Direct-X compatible
- **Operating System:** Windows ME / 2000 / XP with Direct-X version 9.0b or higher
- **USB Port:** One free USB port

The simulator is also compatible with Aerofly RC 7 Ultimate Edition (software not included).

3.2 Connecting the Simulator

1. Ensure your computer meets the minimum system requirements.
2. Install your preferred flight simulation software (e.g., FMS, Aerofly RC 7). Follow the software's installation instructions.
3. Plug the USB connector of the Dynam DYU-1002 simulator into an available USB port on your computer. The device is plug-and-play and does not require external power.
4. Your operating system should automatically detect and install the necessary drivers. If prompted, allow the system to search for and install drivers.
5. Once detected, launch your flight simulation software and configure the simulator as the primary control input device within the software's settings. Refer to your software's documentation for specific controller setup instructions.



Image 2: Side view of the simulator, showing the USB cable connection point and various switches.

4. OPERATING INSTRUCTIONS

The Dynam DYU-1002 simulator functions as a standard RC transmitter, providing realistic control for flight simulation software. It is configured for Mode 2 operation, meaning the left stick controls throttle and rudder, while the right stick controls aileron and elevator.

4.1 Basic Controls (Mode 2)

- **Left Stick (Vertical):** Throttle (up for more power, down for less)
- **Left Stick (Horizontal):** Rudder (left for left yaw, right for right yaw)
- **Right Stick (Vertical):** Elevator (up for nose down, down for nose up)
- **Right Stick (Horizontal):** Aileron (left for left roll, right for right roll)

4.2 Using with Flight Simulation Software

1. After connecting the simulator and launching your chosen flight simulation software, navigate to the controller or joystick calibration settings within the software.
2. Follow the on-screen prompts to calibrate the simulator's sticks and switches. This typically involves moving each stick through its full range of motion and toggling any switches.
3. Ensure that all 6 channels are recognized and respond correctly within the software. The simulator includes controls for 5CH Gyro, Mix, and Gear/Pit, which can be mapped to functions within your simulation software.
4. Once calibrated, you can begin your flight training. Practice basic maneuvers, takeoffs, and landings to familiarize yourself with RC flight dynamics in a safe, virtual environment.



Image 3: Top-down view of the simulator, highlighting the control sticks and various switches for channel assignment.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Dynam DYU-1002 RC Flight Simulator, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the simulator's exterior. Avoid using liquid cleaners or solvents, as these can damage the electronic components or finish.

- **Storage:** Store the simulator in a cool, dry place away from direct sunlight and extreme temperatures. Protect it from dust and moisture when not in use.
- **Cable Care:** Do not sharply bend or crimp the USB cable. Store the cable neatly to prevent damage.
- **Avoid Impact:** Handle the simulator with care to prevent drops or impacts, which can damage internal components.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Simulator not recognized by computer.	USB connection issue, driver not installed, faulty USB port.	Try a different USB port. Ensure drivers are installed (usually automatic). Restart computer.
Controls unresponsive in simulation software.	Software not configured for simulator, incorrect calibration, conflicting input devices.	Calibrate the simulator within the software settings. Ensure no other joysticks are interfering. Check software documentation for controller setup.
Simulator feels sluggish or delayed.	Computer system does not meet minimum requirements, background processes.	Close unnecessary applications. Verify your computer meets the recommended system specifications for the simulation software.

7. SPECIFICATIONS

Feature	Detail
Model Number	DYU-1002
Channels	6 Channels
Throttle Mode	Mode 2 (Left Throttle)
Connectivity	USB
Power Source	USB Powered (No external power required)
Dimensions (L x W x H)	190 x 190 x 100 mm (7.48 x 7.48 x 3.94 inches)
Weight	474 g (16.72 oz)
Cable Length	112 cm
Manufacturer	DynamRC
Compatible Software	Aerofly RC 7 Ultimate Edition, FMS (Free Open Software)

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Dynam DYU-1002 RC Flight Simulator, please refer to the documentation provided at the point of purchase or contact your retailer. Specific warranty terms may vary by region and retailer.

For general inquiries or further assistance, you may visit the official DynamRC website or contact their customer service channels.

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