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> Yoidesu 7 Inch FPV Racing Drone Frame (Model Yoidesu3p7busv5d9) Instruction Manual

Yoidesu Yoidesu3p7busv5d9

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1. INTRODUCTION

This manual provides essential instructions for the assembly, operation, and maintenance of your Yoidesu 7 Inch FPV Racing Drone Frame, Model Yoidesu3p7busv5d9. Please read this manual thoroughly before beginning assembly to ensure correct installation and safe use. This frame is designed for FPV RC freestyle drones and long-range flight applications.

2. PRODUCT OVERVIEW

The Yoidesu 7 Inch FPV Racing Drone Frame is constructed from full 3K carbon fiber, offering a lightweight yet robust structure. Its design features 6mm thick arms for enhanced stability and durability during flight, and a reduced wind resistance profile for improved performance.

2.1 Key Features

- **Wheelbase:** 295mm, suitable for 7-inch propellers.
- **Arm Thickness:** 6mm for increased strength and flight stability.
- **Material:** Full 3K carbon fiber for a lightweight and sturdy build.
- **Design:** Optimized for FPV RC freestyle and long-range drone applications.
- **Aerodynamics:** Shorter, lighter arms reduce total weight and wind resistance.

2.2 Package Contents

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

- 12 x Drone Frame Accessories (various carbon fiber plates and arms)
- 1 x Hook and Loop strap
- 6 x Screw Accessories Pack (containing various screws and standoffs)
- 1 x Acrylic Board

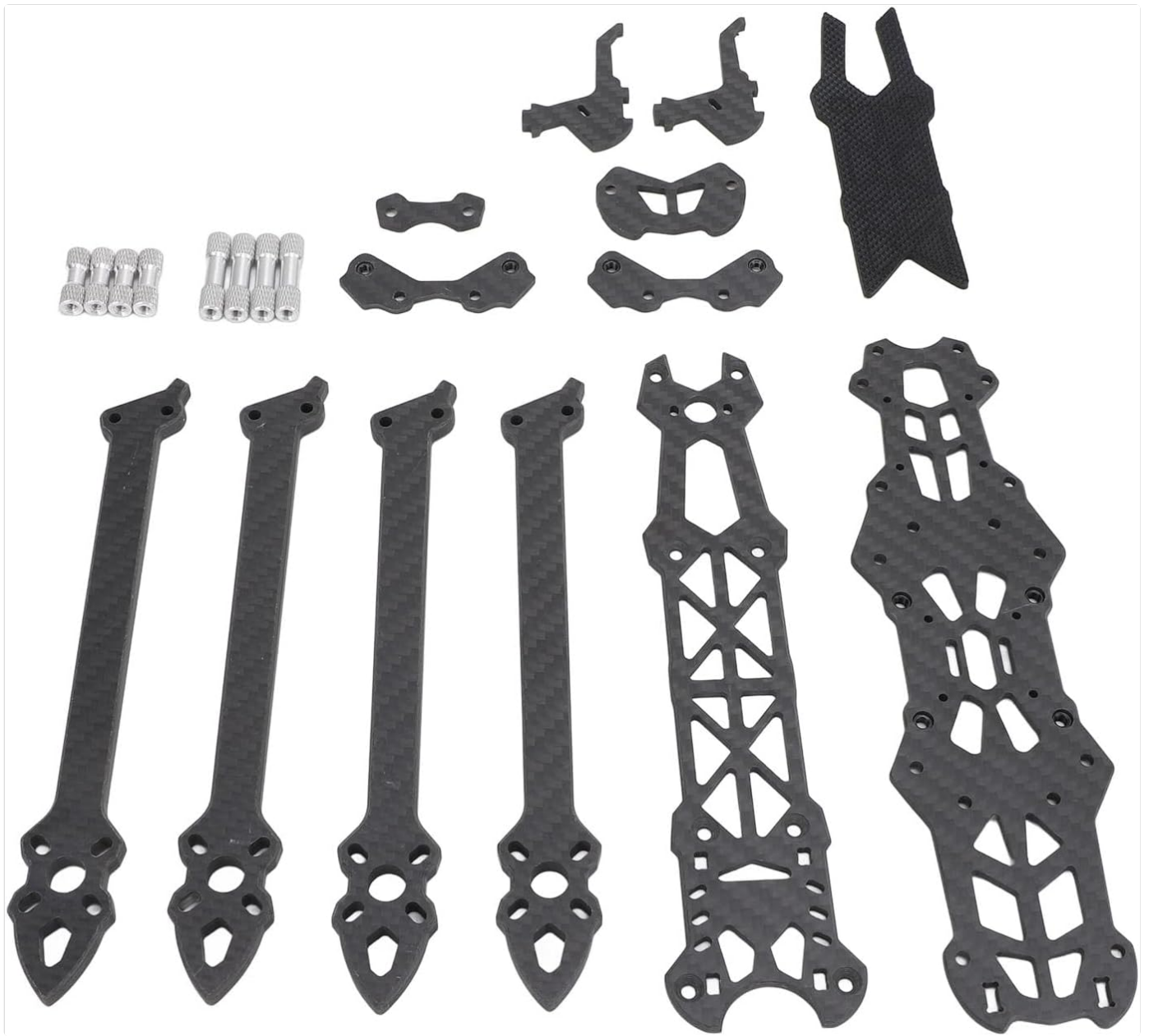


Figure 1: All components included in the Yoidesu 7 Inch FPV Racing Drone Frame kit.



Wheelbase:
Approx. 295mm / 11.6in

Arm Thickness:
Approx. 6mm / 0.24in

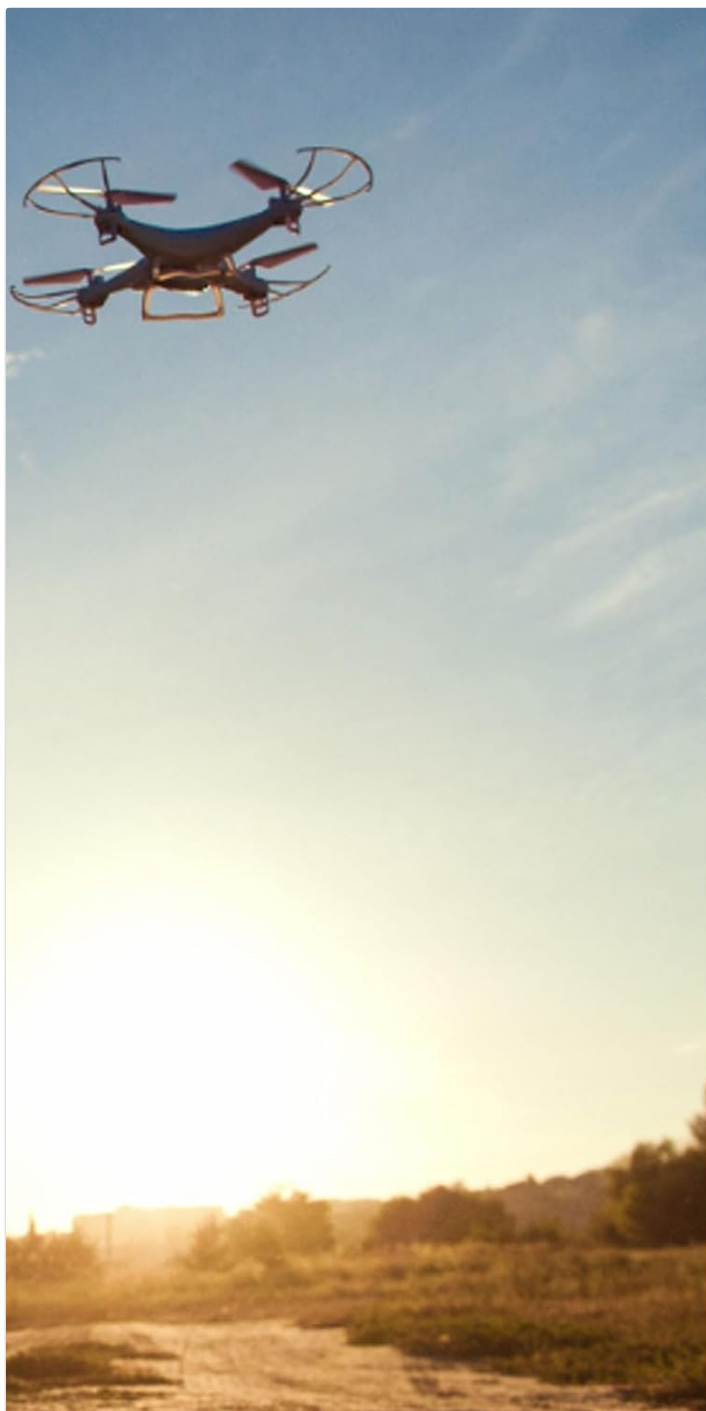
Figure 2: Detailed view of frame components, highlighting the 295mm wheelbase and 6mm arm thickness.

3. SETUP INSTRUCTIONS

The Yoidesu drone frame is designed for straightforward assembly. Follow these general steps for installation. Specific

component placement may vary based on your chosen flight controller, ESCs, and other electronics.

1. **Unpack Components:** Carefully remove all frame accessories and hardware from the packaging. Refer to Section 2.2 to ensure all parts are present.
2. **Identify Main Plates:** Locate the bottom plate, top plate, and any mid-plates that form the core structure of the frame.
3. **Attach Arms:** Secure the 6mm carbon fiber arms to the bottom plate using the provided screws and standoffs. Ensure all screws are tightened securely but do not overtighten to avoid stripping threads or cracking carbon fiber.
4. **Install Standoffs:** Attach the necessary standoffs to the bottom plate to create space for your flight stack (flight controller, ESCs, etc.).
5. **Mount Electronics (Optional):** Before fully closing the frame, it is often easier to mount your flight controller, ESCs, and other core electronics. Refer to the manuals for your specific electronic components for mounting instructions.
6. **Assemble Top Plate:** Once electronics are in place, or if you prefer to mount them later, attach the top plate using the remaining standoffs and screws.
7. **Install Additional Accessories:** Attach any camera mounts, antenna mounts, or other accessories using the provided hardware.
8. **Final Inspection:** Before installing propellers or powering on, perform a thorough visual inspection. Check all screws for tightness, ensure no wires are pinched, and confirm all carbon fiber parts are correctly aligned.



7 inch frame
295mm wheelbase
Designed for FPV RC freestyle drones
Suitable for long range flights

All 3K carbon fiber material
Makes the drone lightweight but very sturdy



Figure 3: Individual frame components and hardware ready for assembly.

4. OPERATING INSTRUCTIONS

This product is a drone frame kit, not a complete ready-to-fly drone. Operating instructions pertain to the fully assembled FPV RC freestyle drone that this frame will be a part of. Please refer to the instruction manuals for your flight controller, electronic speed controllers (ESCs), motors, and radio system for specific operating procedures.

General considerations for operating a drone built with this frame:

- **Pre-Flight Checks:** Always perform a thorough pre-flight check, including propeller security, battery connection, and radio signal integrity.
- **Flight Environment:** Operate your drone in open areas, away from people, animals, and obstacles. Adhere to local regulations regarding drone operation.
- **Battery Management:** Monitor battery voltage during flight and land safely before the battery is fully depleted.
- **Post-Flight Inspection:** After each flight, inspect the frame for any signs of damage, loose screws, or wear.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your drone frame.

- **Visual Inspection:** Periodically inspect the carbon fiber frame for cracks, delamination, or stress marks, especially after hard landings or crashes.
- **Fastener Check:** Regularly check all screws and standoffs for tightness. Vibrations during flight can cause fasteners to loosen over time. Apply thread-locking compound (non-permanent) if necessary.
- **Cleaning:** Clean the frame with a soft, dry cloth. Avoid using harsh chemicals that could damage the carbon fiber or coatings.
- **Arm Replacement:** The 6mm arms are designed to be robust, but in the event of severe impact, they may need replacement. This frame is designed with easily replaceable arms.
- **Component Integrity:** Ensure all mounted electronic components are securely fastened and their wiring is intact and free from abrasion.

6. TROUBLESHOOTING

This section addresses common issues related to the drone frame itself. For issues related to flight performance or electronics, consult the respective component manuals.

- **Loose Frame Components:** If you notice any wobbling or excessive play in the frame, check all screws and standoffs for tightness. Re-tighten as needed.
- **Damaged Carbon Fiber Arm:** In case of a crash, an arm may be damaged. The frame is designed with replaceable arms. Identify the damaged arm, remove its fasteners, and replace it with a new one from the spare parts or a replacement kit.
- **Vibration Issues:** Excessive vibrations can sometimes be traced to loose frame components or improperly mounted motors. Ensure all frame parts are secure and motors are balanced and tightly mounted to the arms.
- **Missing Hardware:** If any screws or small parts are missing during assembly, refer to the package contents list. Contact customer support if essential parts are missing from a new kit.

7. SPECIFICATIONS

Specification	Value
Item Type	Drone Frame
Material	Carbon Fiber
Wheelbase	Approx. 295mm / 11.6in
Arm Thickness	Approx. 6mm / 0.24in
Suitable Range	FPV RC Freestyle Drone
Brand	Yoidesu
Model	Yoidesu3p7busv5d9
Item Weight	Approx. 5.1 ounces
Product Dimensions	Approx. 8.27 x 4.72 x 1.97 inches

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Yoidesu

For further assistance, please visit the [Yoidesu Store on Amazon](#).

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