

# *SebArt* professional line

## *Miss UltimateS 2.2m-V1 ARF*

### ASSEMBLY MANUAL

The new Miss UltimateS 2.2m ARF was designed by the F3A aerobatic pilot Sebastiano Silvestri and it's a semi scale version of the real plane Ultimate 10 Dash 300; with this plane Seba placed 3<sup>rd</sup> at the IMAC European Championships in August 2023.

This innovative design combined with the lightweight structure all wood airframe, give the Miss UltimateS 2.2m ARF an impressive precision and smoothness at any airspeed and flight condition and at the same time in high rate mode and impressive agility.

The Miss UltimateS 2.2m is ready for any IMAC sequence and 3D maneuvers as for unbelievable easy torque rolls, knife-edge pass, loops, spins, stall turn... and almost anything else you can dream up from a IMAC/3D plane are waiting you!

*.....the only limit is your fantasy!*

#### *Specifications:*

Wing Span:.....220 cm  
Length without spinner:.....230 cm (with spinner 246 cm)  
Weight with GP123 engine empty tank:.....12,5 Kg. RTF  
Radio: minimum 8 Channels with 4 servos for AILE + 2 ELEV + 1 or 2 for RUDD

#### *Recommended power set up:*

Engine:.....DA100 – GP123  
Propeller: .....FALCON 28x10 OR 29x9W  
Rx Battery: .....4500-2S

### **Required radio, motor and battery**

Recommended radio equipment:

- Minimum 8channels radio system
- servo BL8911 JR propo: 4 for AILE + 2 ELEV + 1 or 2 for RUDD
- JR propo extensions
- JR propo safety box 16 BPX pro or Power Box Competition SRS2

Recommended electric motor for best performance:

- Hacker Q80-7L + ESC Jeti SPIN 300 SB + FALCON 28x18 E

Recommended Li-Po battery pack for best performance:

- 2 x 10.000mAh 6S Xmania LiPo packs

### **Additional required item, tools and adhesives**

*Tools:*

- Drill
- Drill bits: 1,5mm
- Phillips screwdriver
- Hobby knife
- Sanding paper
- Masking tape
- Soldering iron

*Adhesives:*

- thin CA
- medium CA

### **Warning**

**This RC aircraft is not a toy!**

**If misused, it can cause serious bodily harm and damage to property. Fly only in open areas, preferably in official flying sites, following all instructions included with your radio and motor.**

### **Before starting assembly**

Before starting the assembly, remove each part from its bag and protection for a prior inspection. Closely inspect the fuselage, wing panels, rudder, and stabilizer for damage. If you find any damage or missing parts, contact the place of purchase.

If you find any wrinkles in the covering, use a heat gun or covering iron to remove them. Use caution while working around areas where the covering material overlap to prevent separating the covers.

### **Warranty information**

SebArt guarantees this kit to be free from defects in both material and workmanship at the date of purchase.

This warranty does not cover any parts damage by use or modification, and in no case shall SebArt's liability exceed the original cost of the purchased kit.

Further, SebArt reserve the right to change or modify this warranty without notice. In that SebArt has no control over the final assembly or material used for the final assembly, no liability shall be assumed or accepted for any damage of the final user-assembled product. By the act of using the product, the user accepts all resulting liability.

**If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately in new and unused condition to the place of purchase.**

### **Control throws**

Please, follow the recommended linkage setups:

For the **AILERONS** we recommend the following throws:

High rate:	40° left & right	
Normal flight:	D/R: 30%	Expo: 10%
Snap:	D/R: 80%	Expo: 40%
Spin & 3D:	D/R: 100%	Expo: 60%

For the **ELEVATOR** we recommend the following throws:

High rate:	40° up & down	
Normal flight:	D/R: 25%	Expo: 20%
Snap:	D/R: 50%	Expo: 40%
Spin & 3D:	D/R: 100%	Expo: 80%

For the **RUDDER** we recommend the following throws:

High rate:	50° left & right	
Normal flight:	D/R: 30%	Expo: 25%
Snap:	D/R: 60%	Expo: 50%
Spin & 3D:	D/R: 100%	Expo: 80%

Note: the Expo is (+) for JR systems, and (-) for Futaba systems.

### Mixing

For best performance, we recommend a linear-mix\*:

- Rudder → Elevator UP

When you give full rudder to the right or left side, the elevator have to go up (positive) approx. 6-8%

- Rudder → Ailerons

When you give full rudder to the right, ailerons have to go left and when you give full rudder to the left, ailerons have to right approx. 2-4%

\* if you have a programmable computer radio.

### Recommended Center of Gravity

The recommended CG for IMAC sequences is **15 cm** behind the front leading edge of the BOTTOM wing center wing panel; and 16-17 cm is good for 3D flying.

**Note: check the CG without wing panels installed !**



## *Pre-flight*

### **Never attempt to make full throttle dives!**

If the airframe goes too fast, such as in a high throttle dive, it may fail.  
Throttle management is absolutely necessary.

### ***Range test your radio***

- ✓ Before fly, be sure to range check your radio as manufacturer' s instruction manual of you radio-system recommend.
- ✓ Double-check all controls (aileron, elevator, rudder and throttle) move in the correct direction.
- ✓ Be sure that your motor battery pack is fully charged, as per the instructions included with your batteries and that your radio is fully charged as per its instructions.

***Finally... have nice flights!***

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