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User Manual for Vsk Revolution AutoPilot

All versions of Virtual skipper 5 are supported

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Vsk Revolution “AutoHelm” will be released soon. The auto helm system constantly adjusts the rudder control and maintains an optimum TWA of 30/-30 upwind or 165/-165 downwind.

In addition to the AutoPilot and AutoHelm systems, we will also be releasing “VoicePilot” which gives players full unlimited boat and sail control with voice commands.

Overview

The Vsk Revolution AutoPilot is an AHK application designed to assist with various maneuvers, making it ideal for training, testing, and cruising. While it can be used during races, note that some manual adjustments may be required for optimal TWA's and performance.

The AutoPilot is most effective in **force 5 to 7 winds**, with the best results observed at **force 6 winds**. However, it is capable of operating in any wind conditions.

Getting Started

Preparation

1. Open the AutoPilot GUI and familiarize yourself with the button layout.
 2. For best performance, ensure your boat is at **full speed** and at an optimum **TWA of 30 degrees (upwind)** or **TWA 165 degrees (downwind)** before activating any maneuvers.
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Button Functions and Maneuvers

Tack (Starboard or Port)

- **Description:** Executes a tack to the right (**starboard**) or left (**port**).
 - **Details:**
 - Starts at a true wind angle (**TWA**) of **30 degrees**.
 - Tacks the boat to the opposite side to approximately **-43 degrees TWA**.
 - Comes up to settle at **-30 degrees TWA** on the new tack.
 - **Result:** A **60 to 65 degree tack**, transitioning smoothly to 30 degrees off the wind on either side.
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Bear Away Set (Starboard or Port)

- **Description:** Bears away to deploy the spinnaker.
 - **Details:**
 - Changes the course to a **TWA of 165 degrees**.
 - Spinnaker is automatically set.
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Bear Away Jibe Set (Starboard or Port)

- **Description:** Bears away and executes a jibe, then sets the spinnaker.
 - **Details:**
 - Changes the course to **TWA 165 degrees** after the jibe.
 - Spinnaker is automatically set.
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Take Down (Starboard Tack 1 or Port Tack 1)

- **Description:** Takes down the spinnaker and transitions to **sail 1**.
 - **Details:**
 - Boat moves from **TWA 165 degrees** to **TWA 45 degrees** on either side (**starboard** or **port**).
 - Sail 1 is raised after the spinnaker is taken down.
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Take Down (Starboard Tack 2 or Port Tack 2)

- **Description:** Similar to Tack 1 Take Down but transitions to **sail 2** instead of sail 1.
 - **Details:**
 - Boat moves from **TWA 165 degrees** to **TWA 45 degrees** on either side.
 - Sail 2 is raised after the spinnaker is taken down.
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Usage Recommendations

- The AutoPilot excels in controlled environments like **training, testing, and cruising**.
 - When racing, **manual adjustments** are necessary to optimize performance based on real-time race conditions.
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Tips for Best Results

1. **Wind Force:** Use in force 6 winds for the most reliable performance.
2. **Timing:** Activate maneuvers only after achieving full speed for smoother transitions.
3. **Experimentation:** Test different wind speeds and conditions to familiarize yourself with the Auto Pilot's capabilities.