

Compass Rose



The compass rose displays the vehicle's instantaneous heading, pitch (P), and roll (R). A yellow breadcrumb trail shows the vehicle's heading history. The current heading displays in yellow when the vehicle is being flown in open-loop mode. If the vehicle is following an Auto Heading set point, the heading will display in green text and a green pointer will appear. If the red "COMMS" message appears, there is a problem determining vehicle attitude. This can indicate that the navigation solution is not being published or that the "attitude OK" flag in the navigation solution has been set to false. A false "attitude ok" flag usually indicates that either openINS is not receiving data from an attitude sensor at an appropriate rate, or that the data that it is receiving is invalid.

The Nav LED on the status bar indicates whether openINS is publishing a navigation solution. A red Nav LED may indicate that openINS is still initializing, that it is not receiving data from any of its sensors, or that the application has crashed.

Right-clicking on the compass rose provides a selection of compass rose settings including the option to display the ship, choose between north-up and vehicle-up orientations, and speed up or slow down the breadcrumb trail.

Right-Click Menu Item	Description
Show Topside/Hide Topside	Overlays a ship (topside) graphic and heading on the compass rose. "Hide topside" removes the topside graphic from the compass rose.
Set North-Up/Set Vehicle-Up	Orients the compass so that north (0°) is always in the up position. The vehicle will rotate to match the compass heading. "Set Vehicle Up" orients the vehicle in the up position. The compass will then rotate to match the compass heading.
Switch to Raw	Displays raw compass data as the heading

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	above the workspace compass.
Switch to Navigation Solution	Displays the navigation solution heading above the workspace compass.
Clear Dots	Clears the breadcrumb trail from the compass rose.
Speed Up/Slow Down Dots	Speeds/slows the rate at which the breadcrumb trail populates the workspace compass.

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