

DESCRIPTION

Seakeeper and Garmin have teamed up to make your boating experience an even better one. We are now able to control and monitor Seakeepers using 84XX, 86XX, and Plus Series Garmin MFDs. Software and hardware requirements for enabling this feature can be found below.

COMPATIBLE GARMIN AND SEAKEEPER HARDWARE

1. Garmin Hardware: GPSMAP Series 84XX, 86XX, 7X2 Plus, 7X2xs Plus, 9X2 Plus, 9X2xs Plus, 12X2 Plus, 12X2xsv Plus
2. Seakeeper Hardware: any Seakeeper series model with a Seakeeper 5" Touch Display (P/N 30298) or ConnectBox (P/N 20415)

NOTE: A display upgrade kit is available for some Seakeepers currently utilizing older displays.

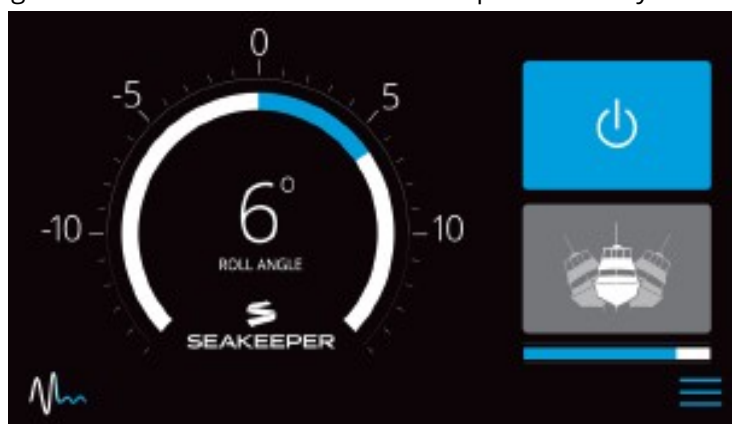


Figure 1: Seakeeper 5" Touch Display Home Screen

SOFTWARE REQUIREMENTS

1. Garmin software 10.00 or later (OneHelm Required):
Can be downloaded at: <https://www8.garmin.com/support/software/marine.html>
NOTE: Seakeeper is not responsible for updating Garmin software.
2. Seakeeper 5" Touch Display software 7.29.1 or later.
3. Seakeeper ConnectBox software 1.2 or later is required.

The most recent software release for the Seakeeper 5" Touch Display and ConnectBox is always recommended. Contact Contact@seakeeper.com or your local Seakeeper dealer for software update information. Visit <https://seakeeper.com/find-us/> for a complete listing of Seakeeper dealers.

TYPE OF CONNECTION

1. Garmin MFD Port: Ethernet (RJ45)
2. Seakeeper 5" Touch Display Port: M12, male, straight, D, circular connection
3. Seakeeper ConnectBox Port: M12, male, straight, D, circular connection

CONNECTION FROM SEAKEEPER 5" TOUCH DISPLAY


1. Connect the Seakeeper 5" Touch Display to the Garmin MFD Ethernet port using a custom Seakeeper cable. Seakeeper cables (Seakeeper P/N 20373 "Garmin Ethernet Wire Harness Cable Assembly") are currently available for purchase from Seakeeper and are 3 m (10 ft) long.
 - 1.1. If a longer cable is needed to connect the Garmin MFD to the Seakeeper 5" Touch Display, Seakeeper offers a 10 m cable extension (Seakeeper P/N 30330) that should be plugged into the back of the Seakeeper 5" Touch Display and the Garmin Ethernet Wire Harness Cable.
2. The Garmin Ethernet Wire Harness Cable connects to the back of the Seakeeper 5" Touch Display port highlighted in Figure 2 below and the back of the Garmin MFD in either "Network" port highlighted in Figure 3.



Figure 2: Port for Seakeeper 5" Touch Display to MFD Connection



Figure 3: Connect Cable 20373 to a "Network" Port on the Back of the MFD

3. Once hardware is connected, cycle power to the Seakeeper display and MFD off and then back on. Press the Settings button  on the Seakeeper 5" touch display and choose "Garmin" from the MFD dropdown list, as seen in Figure 4 below.
4. The display will ask if the user wants to apply these changes. Select "Yes" and the display will reboot.

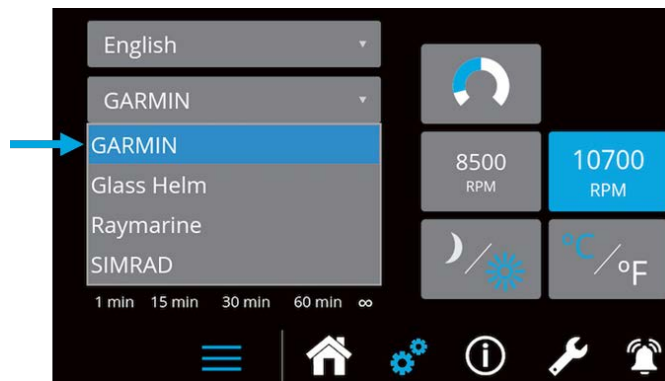


Figure 4: Seakeeper Display's Settings Screen Showing GARMIN in the MFD Dropdown Menu

5. The Seakeeper App will then be populated on the Garmin OneHelm screen, as shown in Figure 5.

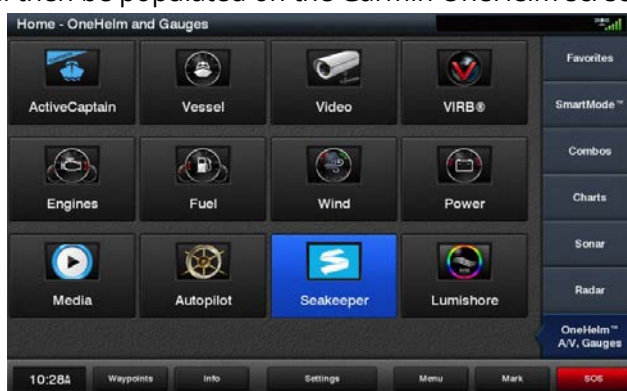


Figure 5: Garmin OneHelm Display – with Seakeeper Application Icon

CONNECTION FROM SEAKEEPER CONNECTBOX

1. Connect the Seakeeper ConnectBox to the Garmin MFD Ethernet port using two Seakeeper cables. Seakeeper cable “Garmin Ethernet Wire Harness Cable Assembly” (Seakeeper P/N 20373) is currently available for purchase from Seakeeper. “Seakeeper Adapter Cable” (Seakeeper P/N 30330) comes standard with the Seakeeper 1.
 - 1.1. The Garmin Ethernet Wire Harness Cable Assembly is 3 m (10 ft) long and the Seakeeper Adapter Cable is 10 m long. If a total cable length of 13 m is not sufficient to reach between the Seakeeper ConnectBox and Garmin MFD, then a second Seakeeper Adapter Cable can be purchased and added to the assembly to provide an additional 10 m of length.
 - 1.2. The Seakeeper Adapter Cable is required to be plugged into the ConnectBox. The connection on the Garmin Ethernet Wire Harness Cable terminal does not fit on the back of the ConnectBox.
2. The Seakeeper Adapter Cable connects to the back of the Seakeeper ConnectBox using the Ethernet port highlighted in Figure 6. The Garmin Ethernet Wire Harness Cable connects to the back of the Garmin MFD in either “Network” port highlighted in Figure 7.

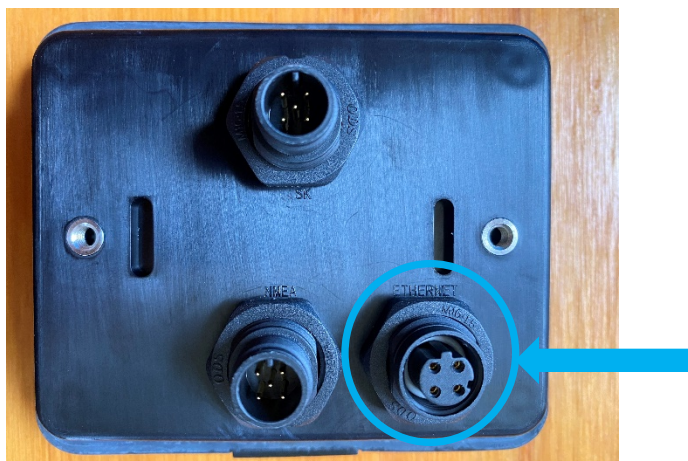


Figure 6: Port for Seakeeper ConnectBox to MFD Connection




Figure 7: Connect Cable 20373 to a "Network" Port on the Back of the MFD

3. Once hardware is connected, cycle power to the Seakeeper and MFD off and then back on. Seakeeper ConnectBoxes are preprogrammed to be configured for Garmin MFD's.
4. The Seakeeper App will then be populated on the Garmin OneHelm screen, as shown in Figure 8.



Figure 8: Garmin OneHelm Display – with Seakeeper Application Icon

MULTI-SEAKEEPER SUPPORT

1. Garmin hardware required: GMS™ 10 Network Port Expander (P/N: 010-00351-00)
 - 1.1. The [GMS 10 Network Port Expander](#) allows you to connect multiple Seakeepers over the Garmin Marine Network.
2. For Seakeeper Display software between 7.29.1 and 7.30.3.1821
 - 2.1. Start by checking that the each Seakeeper 5" Touch Display onboard has a unique Seakeeper ID.
 - 2.1.1. Seakeeper ID can be checked/changed by holding the Settings Button  on the Seakeeper 5" display for 5 Seconds, then selecting the Seakeeper ID drop-down menu.
 - 2.1.2. "DHCP Server" setting should be in its default "off" setting.
3. For Seakeeper Display software 7.40.0.1951 or later
 - 3.1. The Seakeeper ID can be checked/changed by holding the Settings Button on the Seakeeper 5" Touch Display for five (5) seconds, then selecting the Seakeeper ID drop-down menu shown in Figure 9. One Seakeeper unit must have the designation Seakeeper ID "1" and the other units should be identified with increasing ID numbers (2, 3, ...). For the use of a single Seakeeper unit, the ID must be Seakeeper ID "1".

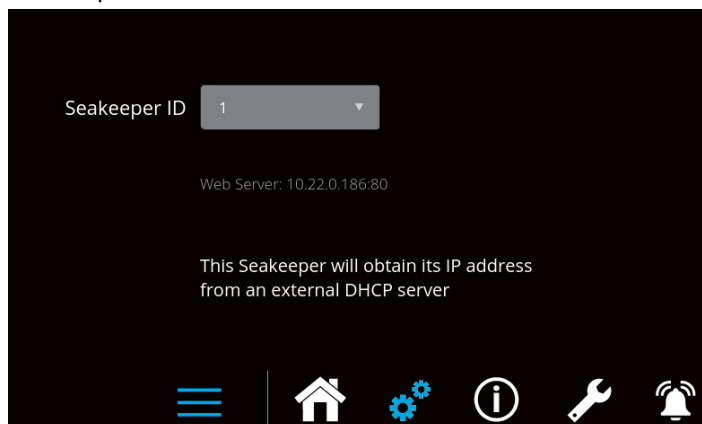


Figure 9: Garmin Multi-Seakeeper Server Settings Screen for Seakeeper ID 1

4. Multi-Seakeeper display screens can be seen in Figure 10. The Seakeepers can all be powered on and locked and unlocked in the home screen. Toggle arrows at the top of the screen can be used to navigate to each Seakeeper's respective home screen, where specific details for each Seakeeper can be found.



Figure 10: Multi-Seakeeper Home Page (left) Showing Seakeeper Toggle Arrows. Seakeeper 1 Home Page (top right). Seakeeper 2 Home Page (bottom right)

TROUBLESHOOTING

1. If the Seakeeper app does not load onto the Garmin MFD once connected, the following steps should be taken:
 - 1.1. Check physical cable connections at the back of the Seakeeper display, the MFD, and any connectors and hubs.
 - 1.2. Restart both the MFD and Seakeeper display.
 - 1.3. Update both the MFD and Seakeeper software to the most up-to-date versions.
 - 1.4. For the use of a single Seakeeper unit application, check that the Seakeeper ID is "1". For multi-Seakeeper applications, check that a Seakeeper is designated as Seakeeper ID "1" and the other units are identified with increasing ID numbers (2, 3, ...).
2. For additional support call or email Seakeeper Technical Support at +1-240-718-6440 or Support@seakeeper.com.