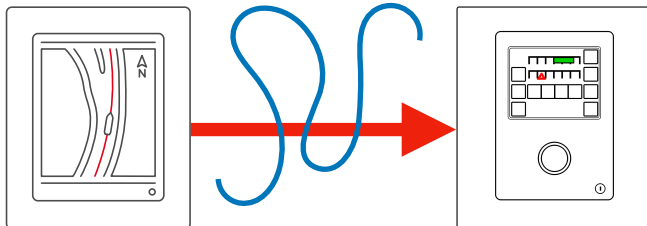


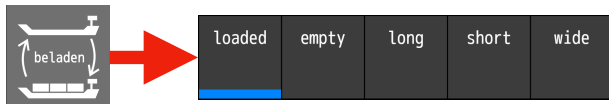
# AlphaRiverTrackPilot – quick start guide

## Preparation

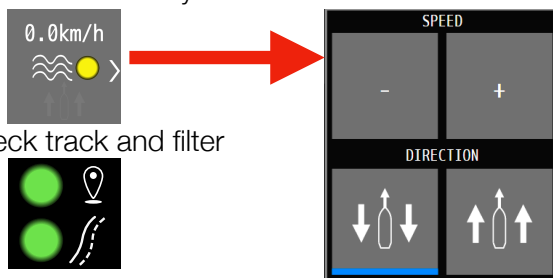
1. Choose track from ECDIS or in TrackPilot



2. Choose profile



3. Set stream velocity and direction



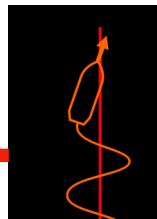
4. Check track and filter



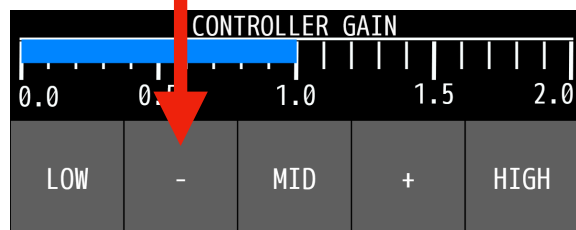
5. Turn on trackpilot mode

## Oscillations ! Check stream settings

Oscillations around guiding line



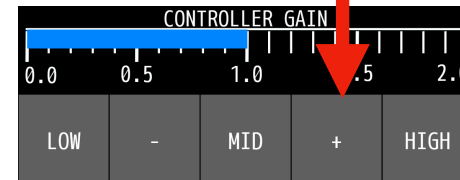
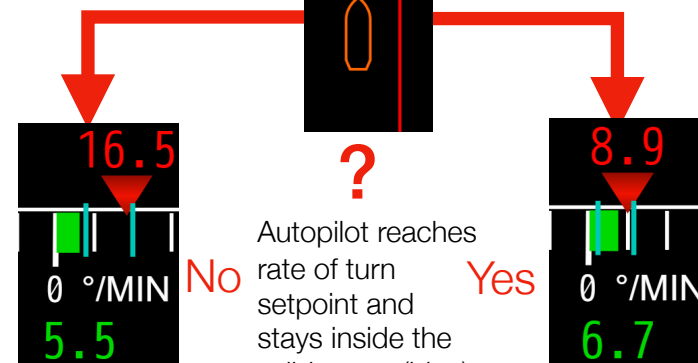
Lower „controller gain“



Test for a few minutes and adjust further if necessary

## Permanent track deviation ! Check stream settings

Permanent track deviation

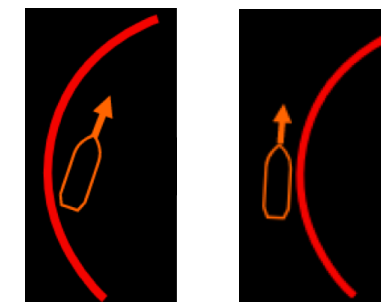


1. Increase „rudder“ on autopilot
2. Increase „controller gain“ on TrackPilot
3. Check rate of turn signal

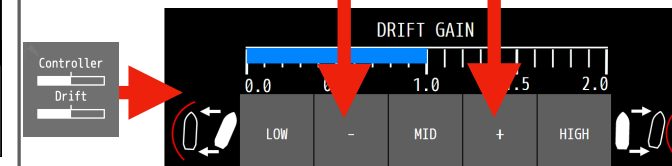
## Deviation in curves

! Check stream settings

Too far on inside of curve Too far on outside of curve



Adjust drift gain



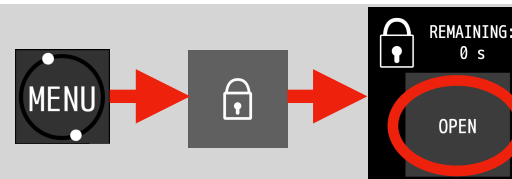
Test for a few minutes and adjust further if necessary

## Miscellaneous

Check system version



Open access for remote support

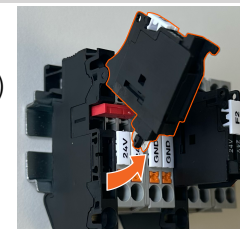


Restart TrackPilot

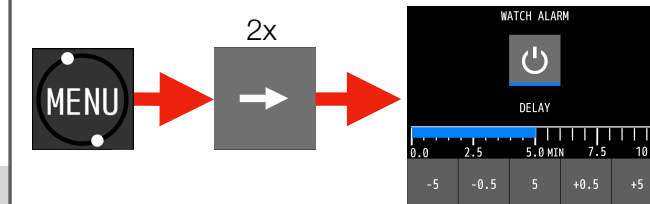
Variant A)



Variant B)



Setup watch alarm



Download manual



ALPHATRON Marine

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an Alpatron Marine company

# AlphaRiverTrackPilot – warnings and alarms

| Warning Name                              | Action                                                                                                                                                                                                                                                  | Alarm Name                                 | Action                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AIS: Error - Contact support              | <ul style="list-style-type: none"><li>• (Re-)Start the AIS.</li><li>• If the warning does not disappear by itself, contact support.</li></ul>                                                                                                           | Autopilot connection lost: Take control    | <ul style="list-style-type: none"><li>• Switch off immediately</li><li>• Check correct function of all devices</li><li>• Contact customer support</li></ul>                                                                                                                                                                                                           |
| AIS: No data received                     | <ul style="list-style-type: none"><li>• TargetPilot active? ➡ Closely monitor track control system for correct operation</li><li>• Malfunction of AIS? ➡ immediately deactivate TargetPilot</li></ul>                                                   | Collision ahead: Take control              | <ul style="list-style-type: none"><li>• Acknowledge alarm by switching to manual steering. There is no other way to acknowledge the alarm.</li><li>• Continue to steer manually and avoid collision</li><li>• In case of false alarm, check the setting of the argoLaneWarning</li></ul>                                                                              |
| Close to end of track                     | <ul style="list-style-type: none"><li>• Switch to manual steering</li><li>• Choose new guiding line</li></ul>                                                                                                                                           | End of track reached: Take control         | <ul style="list-style-type: none"><li>• Immediately switch to manual steering</li><li>• Choose new guiding line</li></ul>                                                                                                                                                                                                                                             |
| Collision ahead                           | <ul style="list-style-type: none"><li>• Move current track</li><li>• Wait until the ship has reached the shifted line</li></ul>                                                                                                                         | I/O: Error - Contact support               | <ul style="list-style-type: none"><li>• Switch off immediately</li><li>• Check correct function of all devices</li><li>• Contact customer support</li></ul>                                                                                                                                                                                                           |
| Distance to track large                   | <ul style="list-style-type: none"><li>• Check if the autopilot system processes the commands by the track control system</li><li>• Acknowledge warning</li></ul>                                                                                        | Lock warning: Take control                 | <ul style="list-style-type: none"><li>• Acknowledge alarm. Can only be done by deactivating the Trackpilot.</li><li>• Continue manually.</li></ul>                                                                                                                                                                                                                    |
| ECDIS / Alphanon Display: connection lost | <ul style="list-style-type: none"><li>• (Re-)Start the ECDIS / Alphanon Display.</li><li>• If this warning does not disappear by itself, contact support.</li></ul>                                                                                     | Position unusable: Take control            | <ul style="list-style-type: none"><li>• Acknowledge alarm by switching to manual steering. There is no other way to acknowledge the alarm.</li><li>• Wait until state of track control system returns to „READY“.</li><li>• Check in ECDIS if ship position on map and reality match.</li><li>• Switch on track control system</li><li>• Increase attention</li></ul> |
| End of SafetyContour ahead                | <ul style="list-style-type: none"><li>• Select new safety corridor</li></ul>                                                                                                                                                                            | Rudder change too large: Take control      | <ul style="list-style-type: none"><li>• Acknowledge alarm by switching to manual steering.</li><li>• Wait until state of track control system returns to „READY“.</li><li>• Check in ECDIS if ship position on map and reality match.</li><li>• Switch on track control system</li><li>• Increase attention</li></ul>                                                 |
| GPS (2): No heading received              | <ul style="list-style-type: none"><li>• Acknowledge warning and closely monitor track control system for correct operation</li><li>• Error persists after 10 minutes? ➡ Contact support, if nec. switch to manual steering</li></ul>                    | System Error 001/002/003 - Contact support | <ul style="list-style-type: none"><li>• Switch off immediately</li><li>• Contact customer support</li></ul>                                                                                                                                                                                                                                                           |
| GPS (2): No position received             | <ul style="list-style-type: none"><li>• Acknowledge warning</li><li>• Closely monitor track control system for correct operation</li><li>• Increase attention</li><li>• Wait if data comes back</li><li>• otherwise switch to manual steering</li></ul> | Target lost: Take control                  | <ul style="list-style-type: none"><li>• Acknowledge alarm by switching to manual steering. There is no other way to acknowledge the alarm.</li><li>• Continue manually and select new AIS target or deactivate TargetPilot</li></ul>                                                                                                                                  |
| GPS (2): No velocity received             | <ul style="list-style-type: none"><li>• Acknowledge warning and closely monitor track control system for correct operation</li><li>• Error persists after 10 minutes? ➡ Contact support, if nec. switch to manual steering</li></ul>                    | Target too close: Take control             | <ul style="list-style-type: none"><li>• Acknowledge alarm</li><li>• Continue manually and increase distance to AIS target or deactivate TargetPilot</li></ul>                                                                                                                                                                                                         |
| Left/Right limit violated                 | <ul style="list-style-type: none"><li>• Move the track to keep the planned path within the safety corridor</li></ul>                                                                                                                                    | Track too far away                         | <ul style="list-style-type: none"><li>• Switch to manual steering</li><li>• Check if the correct guiding line has been chosen</li><li>• Choose another line closer to the current position</li></ul>                                                                                                                                                                  |
| Lock warning                              | <ul style="list-style-type: none"><li>• Pay close attention and adjust speed if necessary.</li></ul>                                                                                                                                                    | Turn too sharp: Take control               | <ul style="list-style-type: none"><li>• Switch to manual steering</li><li>• Check guiding line for errors (points very close together)</li><li>• Choose new guiding line</li></ul>                                                                                                                                                                                    |
| Lock warning not available                | <ul style="list-style-type: none"><li>• Contact customer service.</li></ul>                                                                                                                                                                             | Watch alarm: Take control                  | <ul style="list-style-type: none"><li>• Acknowledge alarm by switching to manual steering.</li><li>• Activate Trackpilot mode again</li></ul>                                                                                                                                                                                                                         |
| No internet – contact support             | <ul style="list-style-type: none"><li>• Contact customer support</li></ul>                                                                                                                                                                              |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| No ROT received                           | <ul style="list-style-type: none"><li>• Check the correct function of all devices.</li><li>• If this warning does not disappear by itself, contact support.</li></ul>                                                                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Position inaccurate                       | <ul style="list-style-type: none"><li>• Wait for the warning to disappear</li><li>• If EstimationDegraded error comes up switch to manual steering</li></ul>                                                                                            |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Power supply connected incorrectly        | <ul style="list-style-type: none"><li>• Contact dealer/installer</li></ul>                                                                                                                                                                              |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Strong cross current detected             | <ul style="list-style-type: none"><li>• Increase attention</li></ul>                                                                                                                                                                                    |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Target close                              | <ul style="list-style-type: none"><li>• Decrease velocity or deactivate TargetPilot or select different target</li></ul>                                                                                                                                |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Target lost                               | <ul style="list-style-type: none"><li>• Closely monitor track control system for correct operation</li></ul>                                                                                                                                            |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Trackpilot switched off                   | <ul style="list-style-type: none"><li>• Activate Trackpilot again if required</li><li>• Check correct function of all devices</li></ul>                                                                                                                 |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Velocity low                              | <ul style="list-style-type: none"><li>• Increase velocity</li><li>• Acknowledge warning</li></ul>                                                                                                                                                       |                                            |                                                                                                                                                                                                                                                                                                                                                                       |
| Watch alarm: Activity required            | <ul style="list-style-type: none"><li>• Move Track or click any button on the touch display</li></ul>                                                                                                                                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                       |