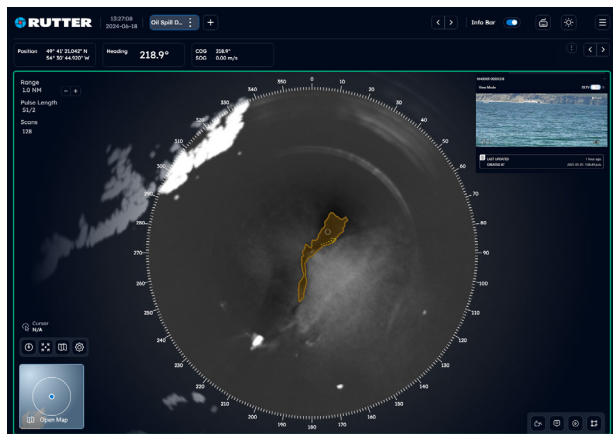
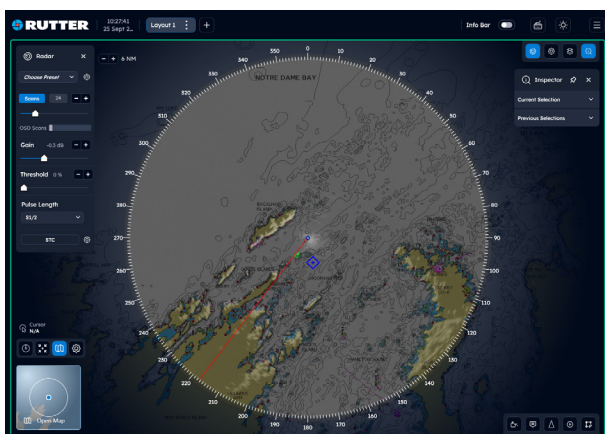


Rutter LIC-00032 Oil Spill Detection Datasheet, Software Specification

| Specification | Description |
|----------------------------------|---|
| Detection and Tracking | Automatic detection, tracking and outlining (5L detected during controlled customer trial). |
| Measured Oil Characteristics | Location: Determines the coordinates of the oil spill. Drift Vector: Determines the direction and speed of oil spill drift. Perimeter Length: Determines the length of the perimeter of the outlined oil spill. Spill Area: Determines the surface area of the outlined oil spill. |
| Oil Volume Estimation | Measured Oil Spill Area is combined with user entered thickness, segmenting the spill area based on amount of oil dampening to determine an ESTIMATE of the oil volume. |
| Detection Range | Up to 4 NM. |
| FLIR IR Camera Integration | Multi-Camera Support: Up to 4 cameras Display Integration: FLIR imaging embedded in the SeaView user interface Manual Control: Control of select FLIR models from SeaView Automatic Tracking: System directs cameras to radar detected oil spills |
| Screen Recording | Recording of operator screens for later analysis, playback and training. |
| Raw Data Recording | Recording of raw captured radar data for later playback, simulating a live system. |
| Geo-Location | Up to 64 radar scans motion compensated and averaged for enhanced imaging. |
| Navigation Charts | Integrates with Garmin Navionics Charts. |
| AIS Integration | AIS Class A and Class B support. |
| Geo-Referenced Notes | Geo-fixed notes viewable locally. |
| Geo-Fixed & Relative Guard Zones | 32 zones to selectively tailor areas to be excluded or included for oil spill detection. |
| Integrated Systems | Operate all Rutter systems on a single hardware platform: <i>sigma</i> S6 Oil Spill Detection / Small Target Surveillance / WaMoS®II / Current Monitor™ / WaveSignal™ / Ice Navigator™ |
| Rutter Unify™ | Rutter Unify™ and external data interfaces supported. |
| Shadow Detection | Automatic exclusion of radar shadows from detection areas. |



While we strive for accuracy in this document, we cannot guarantee it due to potential changes in specifications, options, and availability. Errors and omissions are exempted, and we reserve the right to limit quantities.