

# M.S. WALRUS

## Survey vessel M.S. Walrus

**M.S. Walrus** is Aqua Vision's trailerable survey vessel for year-round inland applications. Operational in the Netherlands within **24 hours**.



### Features

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**M.S. Walrus** is a multipurpose work boat specially equipped for hydrographic measurements in **rivers, channels, lakes and coastal areas**. In the **closed heated cabin** are seats for the skipper, surveyor and one extra person. There are two cockpit tables **for survey and navigation monitors**. There is 12 VDC and a Victron inverter for 220 VAC power supply and battery charging.

### Equipment

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Standard equipment includes a high accuracy RTK **dGPS** system, pitch, roll and heading sensors, echo sounder and an Acoustic Doppler Current Profiler (**ADCP**). Moreover, there is a **hand winch** to lower auxiliary sensors and sampling equipment.

### Applications

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With a small draft of **M.S. Walrus** easily reaches **shallow parts of lakes and rivers**. Moreover, the vessel is **trailerable** and therefore quick to launch in a large area. We are able to operate the vessel anywhere in the Netherlands within 24 hours

## Survey equipment

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- **RTK dGPS / GLONASS** for high accuracy positioning, model Trimble SPS851
- Octans GIII **gyrocompass and motion sensor** (IXSEA)
- **ADCP** for measurement of currents, discharge and sediment concentration, model 600 or 1200 kHz Workhorse Monitor (Teledyne RD Instruments)
- **Multibeam echo sounder** for bathymetric surveys (Teledyne Odom, type MB1)
- **Multi-parameter probe** for measurement of turbidity, sediment concentration, salinity, temperature and depth, model OBS-3A (Campbell Scientific, Inc.)
- Water sampling pump
- Sediment sampling equipment

## Safety equipment

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- VHF maritime radio-telephone, call name PB3937
- Extra handheld VHF maritime radio-telephone (auxiliary power)
- Raymarine AIS class-B transponder
- Tri-Lens radar reflector
- Navigation lights
- Safety beacon light
- Searchlight
- Rain-draining cockpit aft
- Windshield wipers
- Automatic Bilge pump
- Fire extinguisher
- Life jackets
- Safety buoy

## Specifications

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|------------------------|--|
| • Shipyard             | Voscat   |
| • Model                | Vinet 650  |
| • Year of construction | 2009   |
| • LOA                  | 7 meters   |
| • BOA                  | 2,5 meters   |
| • Draft                | 0,35 meters  |
| • Weight               | 2500 kg  |
| • Main engine          | 2 x 80 hp outboard, separate fuel tanks  |
| • Fuel capacity        | 200 ltr  |
| • Maximum speed        | 30 knots   |
| • Power                | 12 volt battery for starter engine<br>12 volt Gel batteries for 12 VDC and 220 VAC board power (2kW) |