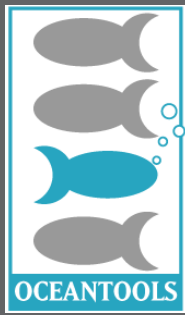


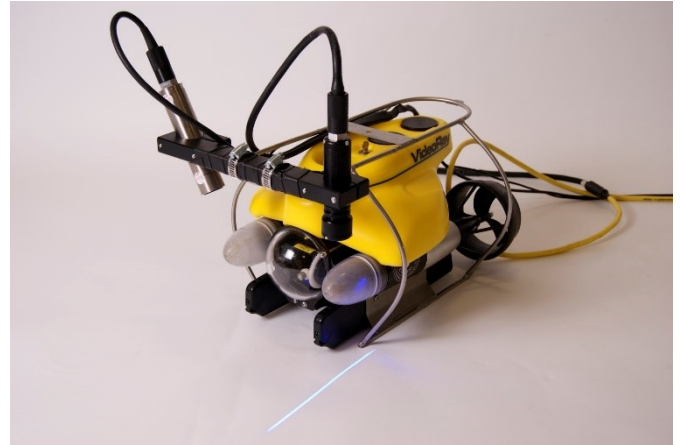
# C-Gauge

## Underwater Laser based measurement system



### Key Features:

- 700 data points per scan, 15 scans per second
- Accuracy to 0.5mm, resolution to 0.3mm
- 3000m depth rating
- 2D & 3D display modes



The field-proven OceanTools C-Gauge underwater measurement system offers sub-millimetric underwater measurements. The highly compact & rugged package comprises an OceanTools C-Laser, underwater camera, deployment frame and analysis software. The system has been designed for a wide range of subsea measurement applications including:

#### Cracks and gaps

Pipeline ovality, diameter and radial measurement  
Precise distance and angular measurements

Depending on the range, C-Gauge can generate results with an accuracy of 0.5mm and with a resolution of 0.3mm. The package is very compact and has been designed to fit onto the smallest of ROV systems. The system requires a single 24VDC input and a video link to the surface.

The laser has a very low power consumption and draws just 250mA at 24VDC. Because the power of the laser is below 70mW they are therefore classed as 'Laser class III-a' meaning no special training is required to operate them.

#### Laser

**Maximum range C-Gauge LR:** 5m @ 10mm accuracy

**Maximum range C-Gauge SR:** 2m @ 0.5mm accuracy

**Laser colour / wavelength:** Blue / 450nm

**Laser power:** 70mW

**Fan beamwidth (underwater):** 45°

**Depth rating, standard:** 3000m

**Voltage input:** 24VDC

**Power requirements:** 250mA @ 24VDC

**Materials:** Hard anodised aluminium

#### Dimensions

**Weight in air:** 0.5kg

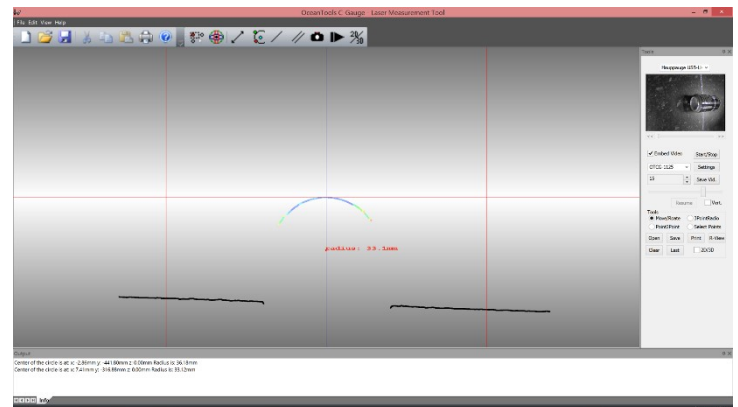
**Weight in water:** 0.3kg

#### Environmental

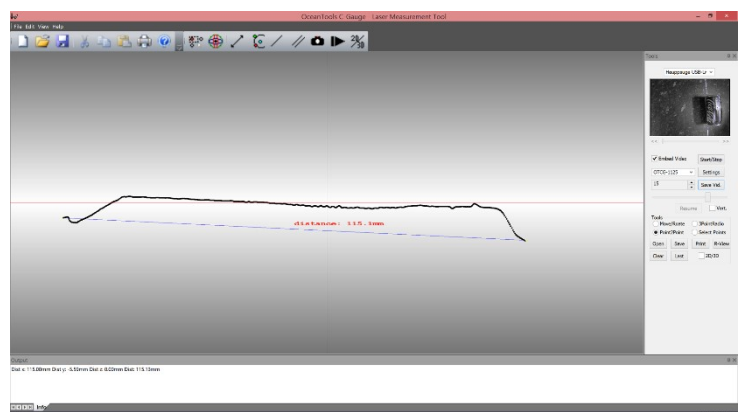
**Shock rating:** 5g

**Operating temperature:** -5° C to 35° C

**Storage temperature:** -10° C to 50° C



Precision radius/diameter measurement



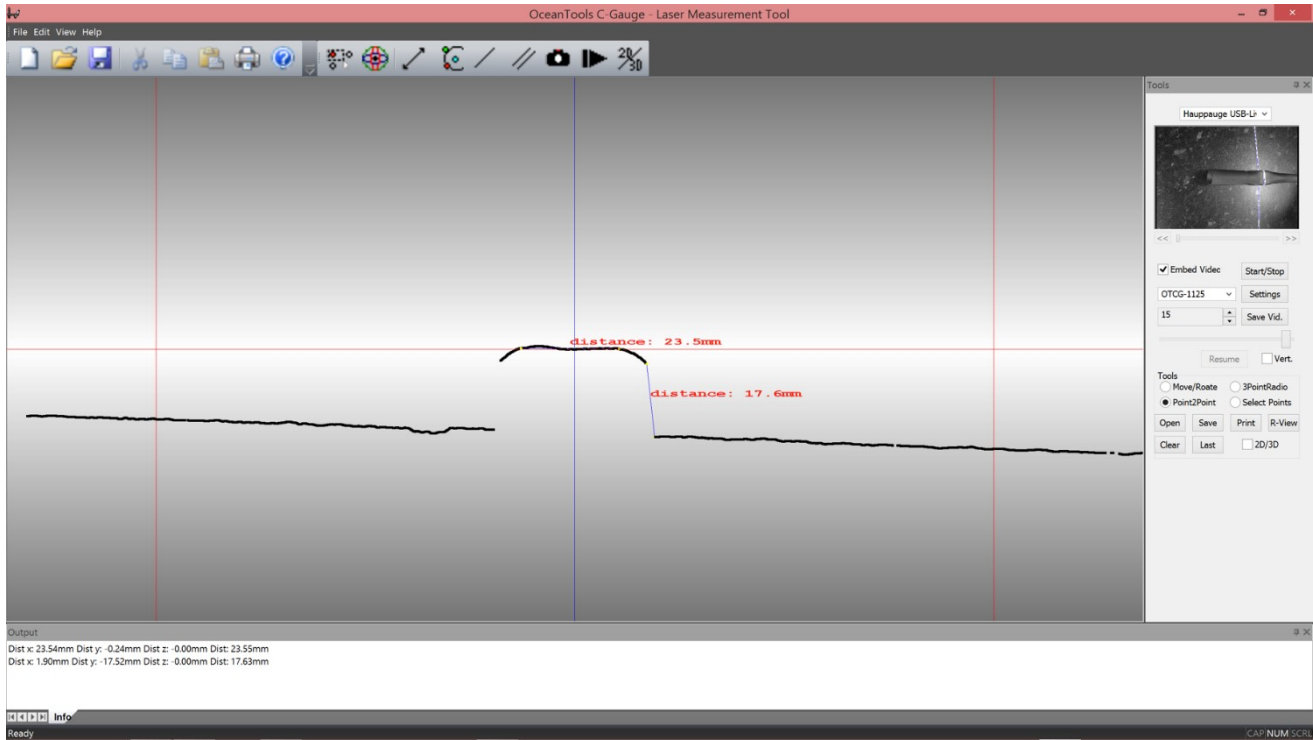
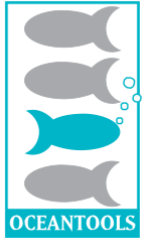
Precision distance measurement

All specifications subject to change.  
E&OE.

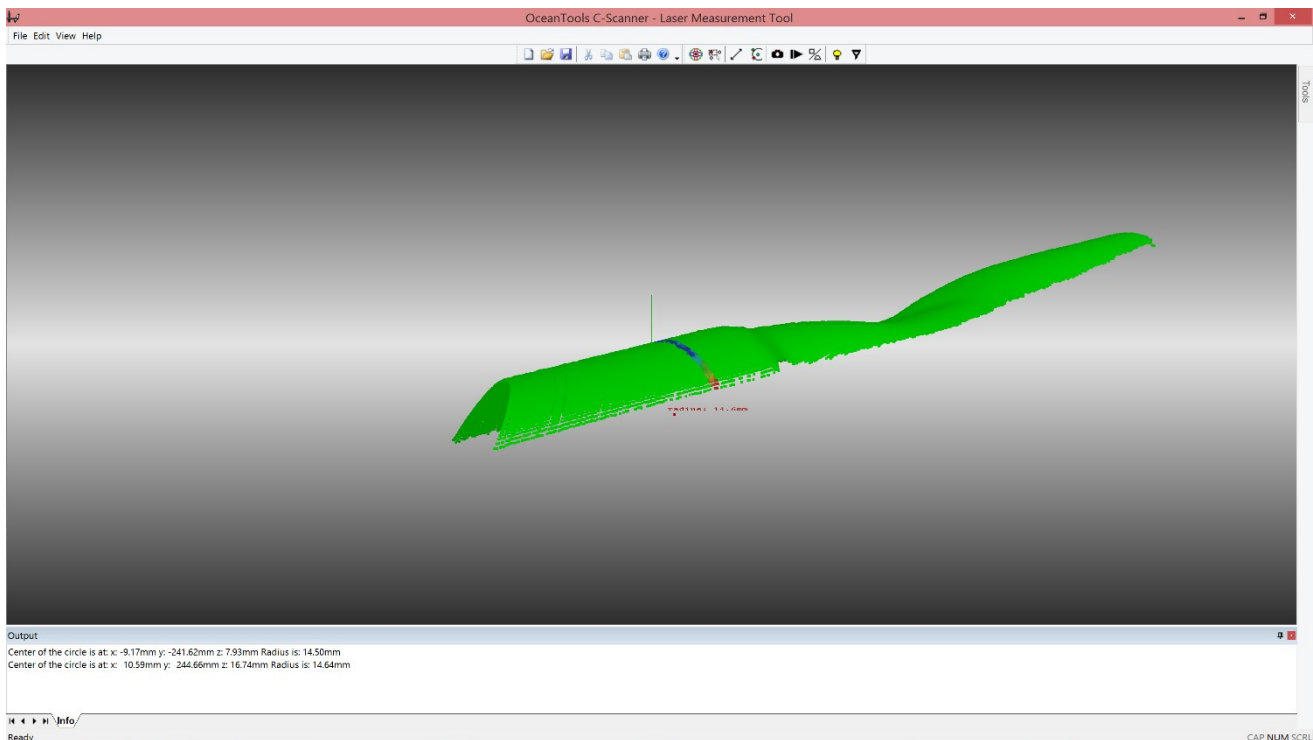


# C-Gauge

## Underwater Laser based measurement system



Multiple distance measurements



3D representation taken from multiple scans

All specifications subject to change. E&OE.