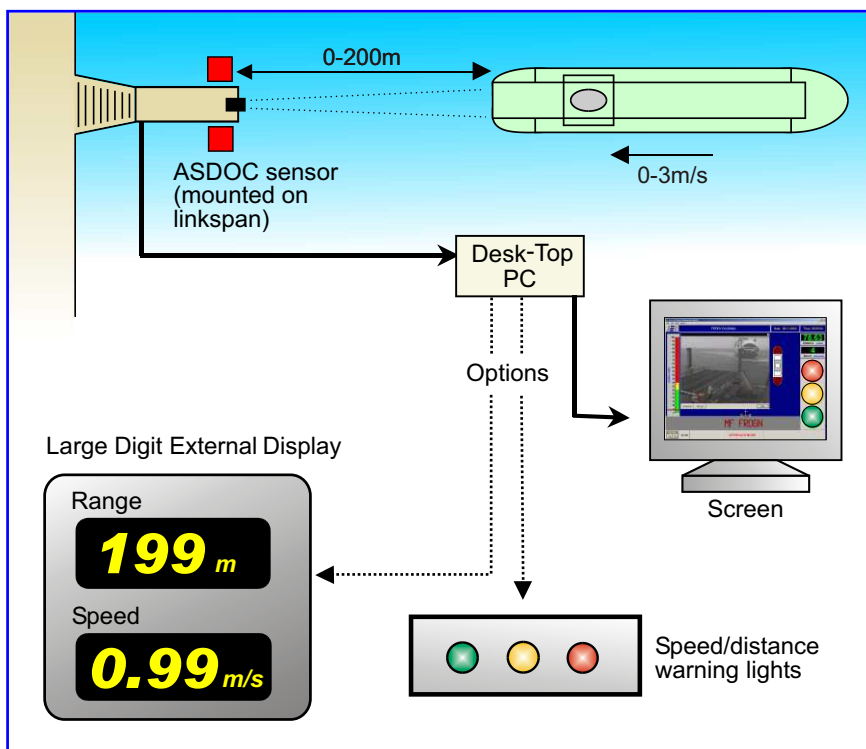




The Strainstall DockAlert is a low-cost system designed to give Harbour Authorities and Ferry Operators a clear and accurate reading of the speed and distance of a vessel as it approaches its berth.

Using a laser ranging sensor mounted near the water surface, DockAlert provides instantaneous results with increasing accuracy as the vessel approaches. A wide range of outputs are provided to maximise the system's flexibility, so DockAlert may be used in any configuration - from a simple high-visibility dock display to a comprehensive data logging system integral with existing harbour control networks.



A narrow laser beam is emitted directly along the vessel's approach path to prevent false returns from other marine traffic. The precision of the system increases with decreasing target distance, providing the highest accuracy when it is most needed. Uniquely, the system measures speed and distance simultaneously, with no delays or interpolation errors.

System Features

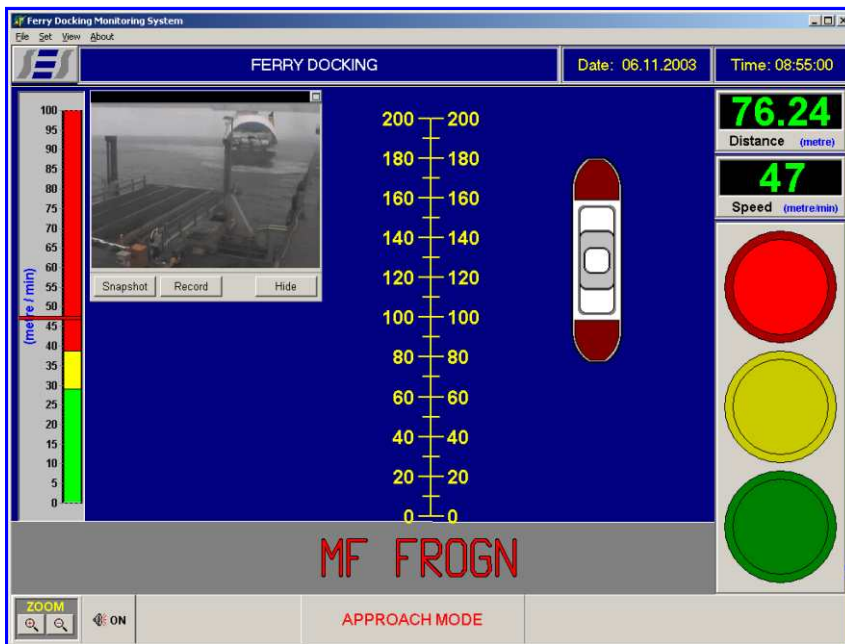
- Low-cost, non-intrusive automatic operation
- Real-time display of approach speed and distance
- High accuracy, increasing during critical approach
- Simple above-surface installation
- Operation unaffected by weather conditions
- Reliable low maintenance design
- Can be jetty or ship mounted
- Eye-safe laser operation

Strainstall UK Ltd
9-10 Mariners Way
Cowes
Isle of Wight
PO31 8PD

Tel: +44 (0)1983 203600
Fax: +44 (0)1983 291335
Email: sales@strainstall.com
Website: www.strainstall.com

Displays, outputs and peripherals can be configured to suit customer requirements. Alarms can be 'zoned' so that a speed warning will be triggered by lower speeds at closer ranges.

Because the system is mounted above the waterline, it requires little maintenance and can be easily calibrated. The sensor unit is relatively small and can be mounted directly on a link-span or on a nearby dolphin. DockAlert is also unaffected by environmental conditions, including fog, rain and snow. It is packaged in a rugged weatherproof housing, and has no moving parts.



Technical Details

System	Laser transmission, 1.5 n sec width pulse
Safety	Eye safety, FDA Class 1 laser
Sealing	IP65
Distance Range	0-199m
Accuracy	Better than 1 cm
Minimum Increment	1.0m (distances>10m) 0.1m (distances<10m)
Measuring Interval	1 sec to 9 sec
Speed Range	0-3m/sec
Resolution	1cm/sec
Sensor Size Max. (mm)	W300 x H450 x D700

DockAlert is designed for end-on docking applications (to the link span). Another version is also available for beam approach berthing.

Strainstall's team of experienced engineers operate from offices in Cowes, Bath and Aberdeen (UK), Norway, Belgium, USA and Dubai.

Tel: +44 (0)1983 203600
 Fax: +44 (0)1983 291335
 Email: sales@strainstall.co.uk
 Website: www.strainstall.com



FM 12408

Application Note: MA100