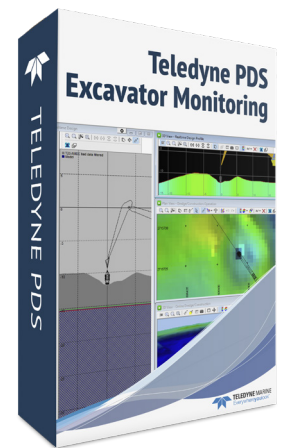


PDS Excavator Monitoring

a Teledyne PDS application



PDS Excavator Monitoring is part of the Teledyne PDS family of applications which is a multipurpose platform that offer a broad base of functionality for the dredge and construction market. PDS Excavator provides the user guidance during standard and complex projects, giving the operator a clear overview of all he needs to know using the systems as “his eyes under water”

Tools supported

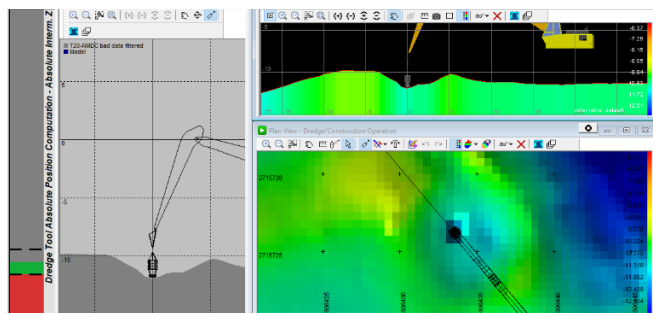
PDS Excavator supports multi-segments and telescopic cranes, a wide variety of different dredge tools can be selected such as buckets, grabs, hammer, cutting tools, jetting systems or pumps. Switching tools is easily done using the Dredge Control menu.

Interfacing

Thanks to the strong combination of Teledyne Marine's dredge sensors and PDS Excavator Monitoring the full solution for excavator guidance is reliable, robust and suitable for use in the harsh dredge environment. PDS excavator also allows interfacing to other systems on the market. PDS Excavator supports common used RTK positioning systems.

Manual-RTK positioning

When operating in areas with limited RTK reception PDS can switch between RTK and manual position. The manual position will use the last good RTK position. This position is fixed to the crane base reference point and remain valid as long as the crane base is stationary.



Obstacle avoidance feature

PDS Excavator Monitoring's Obstacle Avoidance feature is a strong tool to assist the crane operator to steer clear of possible dangers. Obstacle Avoidance lets the user import any objects in DXF, such as pipelines, cables or high voltage powerlines, that should be avoided either to prevent damage to the object or danger to the crane operator.

DTM editor

The PDS Excavator Monitoring application includes a DTM editor. It can import XYZ data for creating a new DTM or update partially an existing DTM with newly collected data. This way the operator will always work with the latest updated depth information.

Teledyne PDS Motionscan

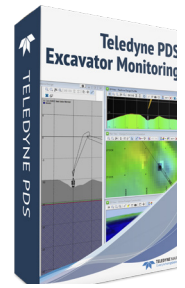
PDS Excavator Monitoring can be upgraded with our well-known Teledyne PDS MotionScan option which is fully integrated in PDS Excavator Monitoring

Data Distribution

When a project has multiple dredges working simultaneously in the area, PDS Excavator Monitoring can distribute data between the different dredges when data communication is available.

Product benefits

- Hard- and software from single supplier
- Flexible system tailored to your application
- Robust sensors suitable for marine environment
- Support all dredge tools from bucket to pump

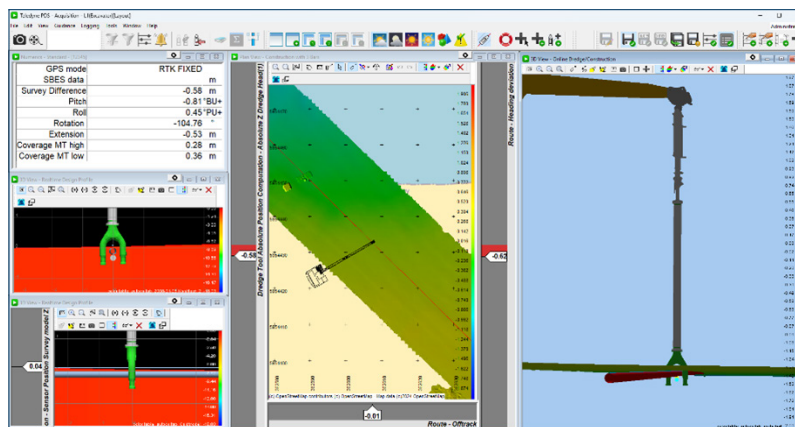
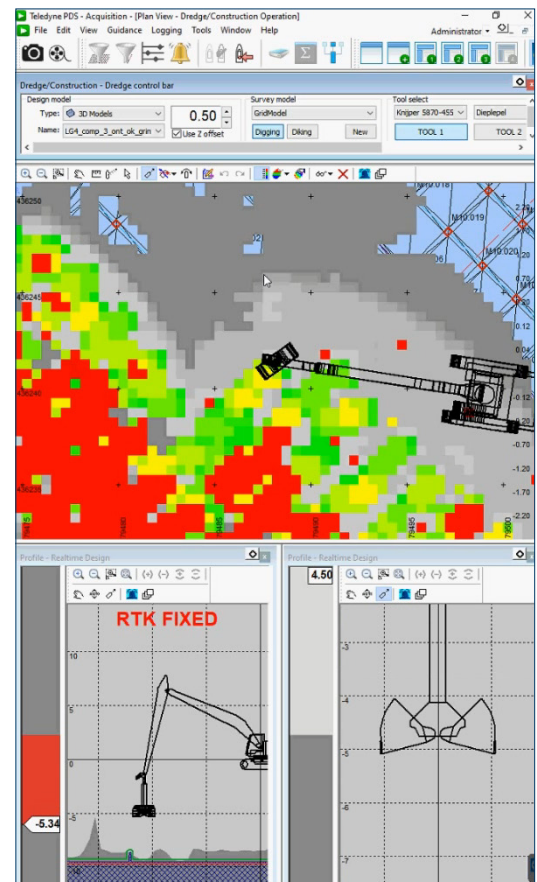
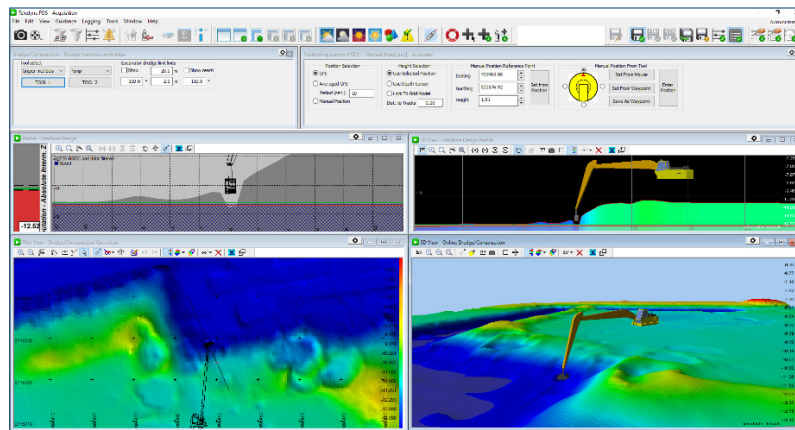


PDS Excavator Monitoring

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PDS EXCAVATOR MONITORING SPECIFICATIONS

PDS	Excavator application	PDS	Excavator application
Project management	✓	Teledyne Motionscan	0
User accounts + User access levels	✓	Interfacing to Pipe/Cable detection systems	0
Configuration of equipment and offsets	✓	Import of XLS design positions	✓
Multiple monitors	✓	Real-Time update of DTM	✓
Remote presentation at PC in network	✓	Real-Time 3D View online	✓
Track guidance	✓	Real-Time Profile and Side views	✓
GeoCalculator	✓	C-map electronic chart	✓
Interfacing to singlebeam echosounder	✓	Interfacing to multibeam system	0
Sensor interfacing + test	✓	S-57 data	✓
Interfacing to PLC systems	✓	Webmap service	✓
Reading analogue data via interface	✓	Object avoidance Alarms	✓
Support Telescopic crane	✓	Support Pontoon protection	✓
Support Block placement projects	0	Draft Load monitoring vessel barge	0
Support Cable burial projects	✓	TDS monitoring vessel	0
Block / Matresses placement projects	✓	DTM Editor	✓



TELEDYNE MARINE
PDS
Everywhere you look™
www.teledynemarine.com/pds

Tel. +31 (0)10 245 15 00 (Europe) • Tel: +1 805 964 6260 (USA)
Email: pds@teledyne.com