PDS Cutter Monitoring

a Teledyne PDS Application

PDS Cutter 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 Cutter provides the user guidance during standard and complex projects, giving the operator a clear overview of all he needs to know using the system as "his eyes under water"
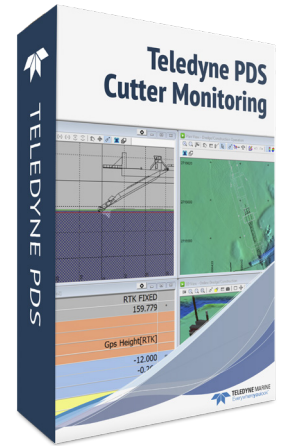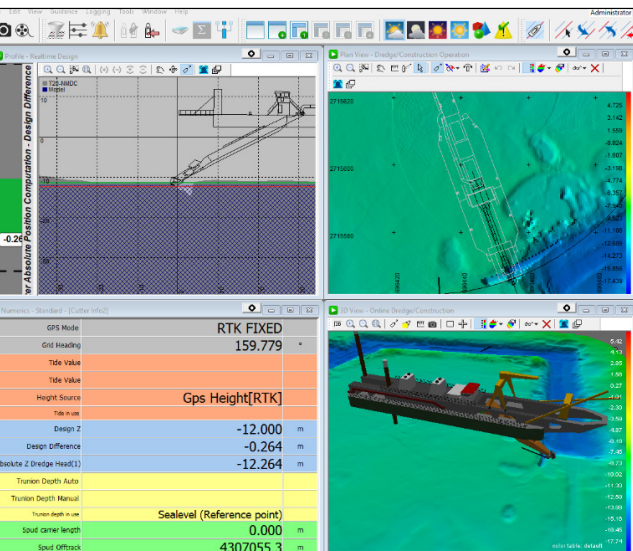
Efficient Dredging

PDS Cutter gives the dredge master a real-time overview of the exact cutter- or draghead position for increased efficiency and production. The system keeps track of the already dredged sediment by updating the survey map and helps to prevent possible over- or underdredging by showing the suction depth and position of the cutterhead/suction in a dredge profile together with dredge limits when these have been specified by the client.

Interfacing

Thanks to the strong combination of Teledyne Marine's dredge sensors and PDS Cutter the full solution for Cutter guidance is reliable, robust and suitable for use in the harsh dredge environment. PDS Cutter also allows interfacing to other systems on the market such as Damen Dredging and IHC systems.

Obstacle avoidance feature

PDS obstacle avoidance feature is a strong tool to assist the operator to stay clear of possible dangers. The object alarm lets user import any objects, such as pipelines, cables or high voltage powerlines, that should be avoided either to prevent damage to the object or danger to the operator.

DTM editor

PDS Cutter software includes a DTM editor. It can import XYZ data and can partly update areas when new survey data is available. This way the operator can always work with the latest depth information.

Cumulative production calculation

When the dredge is fitted with a flow and density sensor PDS Cutter can calculate cumulative production and provide reports at user specified intervals

Teledyne Marine Motionscan

PDS Cutter can be upgraded with our well-known Teledyne RESON's MotionScan option which will update the DTM on-the-fly when dredging.
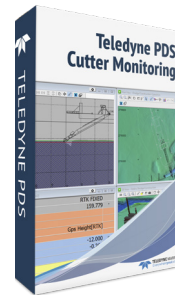
Distributing data

Using PDS Deposyt data can be distributed to the local or main office when data communication is available.

PRODUCT BENEFITS

- Hard- and software from single supplier
- Easy project preparation
- Ensures accurate dredging
- Support most Cutter dredge systems on the market
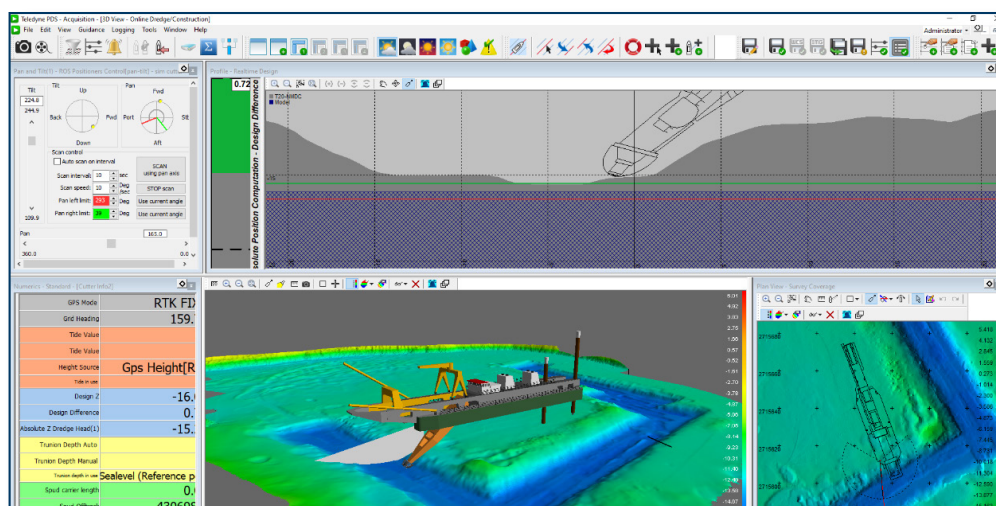
TELEDYNE MARINE
PDS
Everywhere**you**look™

PDS Cutter Monitoring
a Teledyne PDS Application

PDS CUTTER MONITORING SPECIFICATIONS

PDS	Cutter Dredger	PDS	Cutter Dredger
Project management	√	Teledyne Motionscan	o
User accounts + User access levels	√	Real-Time update of DTM	√
Configuration of equipment and offsets	√	Real-Time 3D View online	√
Multiple monitors	√	Real-Time Profile and Side views	√
Remote presentation at PC in network	√	C-map electronic chart	√
Track guidance	√	S-57 – S-63 data	√
GeoCalculator	√	Webmap service	√
Data acquisition singlebeam echosounder	√	Alarms	√
E20 control and graphics, graphics only for processing	√	Multivessel	o
Sensor interfacing + test	√	Anchorhandling	o
Data acquisition singlebeam echosounder	√	Cumulative Production calculations	√

Cutter dredger with motionscan appliaction

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