TECHNICAL GUIDANCE

HIGH PERFORMANCE FOR CARGO TANK DATA MONITORING SOFTWARE FOR WINDOWS

CALTIS II Windows

OUTLINE

CALTIS II is a software for cargo tank monitoring software. CALTIS II has been certificated by most ship classification societies and operates with HP COMPAQ MARINE personal computer (recommended). We can build the system to match use's needs.

Software supports LAN and the monitor in each cabin is possible by inboard LAN system connection.

CALTIS II has loading computing module and damage stability, and can monitor and operate loading work functionally from one personal computer.

STANDARD SPECIFICATION

Delivery form

Personal computer pre-install
(When soft ware only: CD-ROM)

System requirement

Computer
Personal computer with Windows XP professional
(We recommend HP dc7600.)

Basic software
Microsoft Windows XP Professional
Microsoft Office 2003

Memory
1GB or more

HDD
40GB, 80GB or more

BASIC PERFORMANCE

1) Constitute with 15 screens (Optional loading computer, Damage stability)
2) Control with mouse
3) Display of the present tank data and various setting data
4) Displacement and tank sounding numerate function
5) Display of level by bar graph
6) Printing
7) Monitor of cargo handling
8) Setup and display of alarm

VERSION
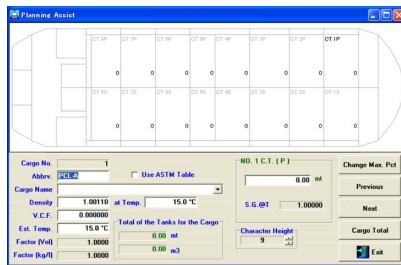
CALTIS II Ver.2.00

TOKYO KEISO CO., LTD.

DISPLAY SAMPLES

Printing dialog
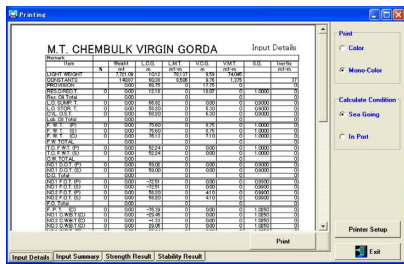
Select to print out the input data and the calculated results. This has 2 pages, which are "Input Details" and "Calculated Result." Click the tab of the page to display and print button in the page to print.
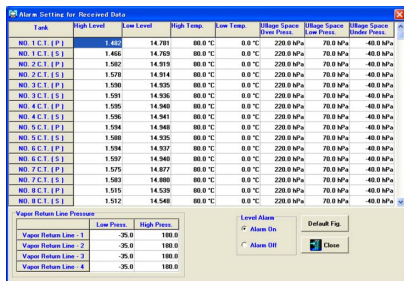
Planning assist

Select this mode to register up to 16 kinds of loading cargo data, and then input by Metric tons in the mimic diagram of the cargo tanks.

Others
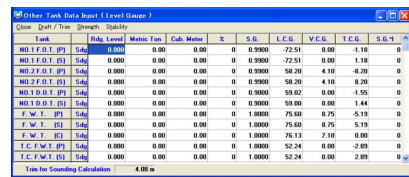
Input ballast tank data by the reading sounding, weight (M/T), volume (m^3) or volume percent. Also, you can change S.G. of the tank if necessary.

Alarm setting

Input or change the warning and dangerous level of tanks. This data is used in the data communication.
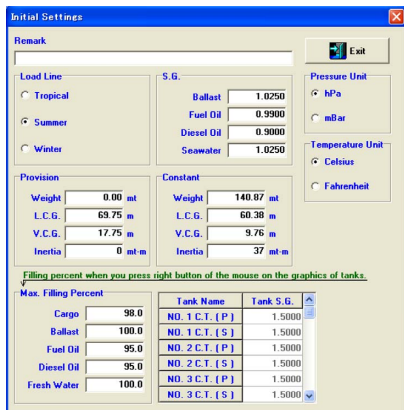
Cargo tank data input

Input the cargo tank data in tabular form by corresponding ullage, gross volume (G/m^3), gross volume percent, and weight (Metric Ton). Also, you can change S.G., and Temp. (Deg. C) of the tanks if necessary.

Draft survey
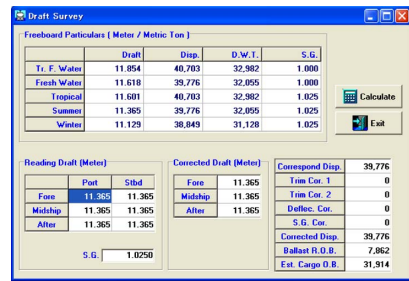
Input all the reading drafts, and S.G. The following are calculated and displayed.
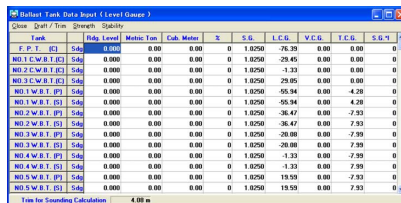
Miscellaneous setting

Select to input miscellaneous settings of the program. You can input/change the followings.

1. Remark
2. Load line and Draft mark
3. Specific gravity (S.G.) of ballast water, fuel oil, diesel oil, and seawater.
4. Weight (M/T), L.C.G, and V.K.G. of the provision and the deadweight constant.
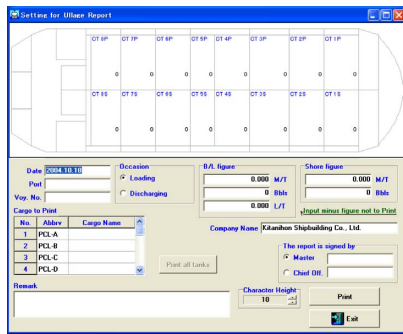
Ballast tank data input

Input ballast tank data by weight (M/T), volume (m^3) or volume percent. Also change S.G. of the tank, if necessary.

Tank survey

Call this function to calculate various ship's figures. The tank table for Ullage stand is used for this calculation.
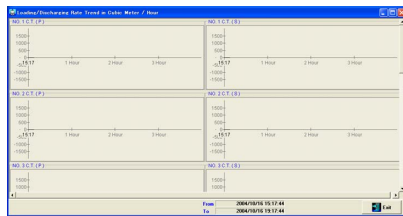
Setting for sounding report

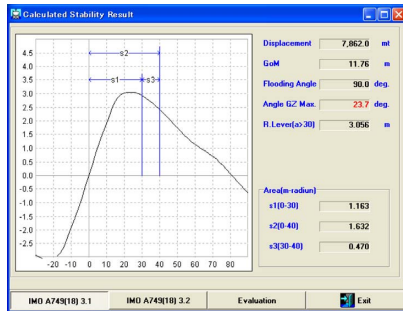Printing of the result calculated by Tank survey is set up.
1. Input date, port, and voyage number.
2. The item of before or after loading etc. is selected.
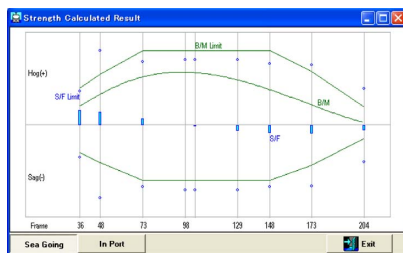3. Select the tank and print the Tank survey.

Cargo tank data

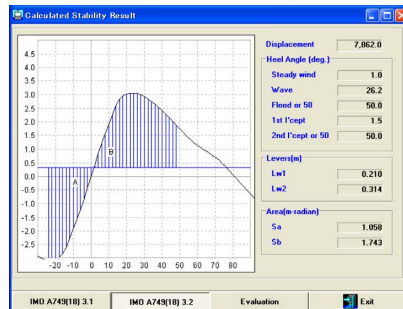The program calculates the cargo volume and weight from the received tank levels, and displays in tabular form.
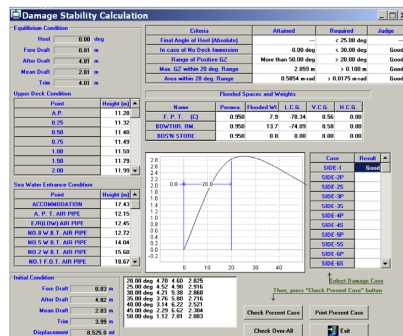
Received data summary

The program calculates the cargo volumes and weights from the received tank levels, and displays the weights and the levels with graphics.

Rate trend

Call this page to display the loading or discharging rate in the cubic meter per hour for latest 2 hours by the graph.

Cargo tank level

Call this page to display the received cargo tank level (ullage) by the bar graph and figures.

Tank temperature
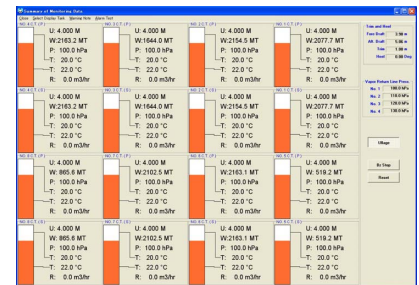

Call this page to display temperature at upper, middle, and lower parts in cargo tanks.

Option
Loading computer
IMO A749 (18) 3.1

IMO A749 (18) 3.2

This program calculates the stability in accordance with IMO A749 (18) 3.1 and A749 (18) 3.2.

Strength result (Table)

The program calculates and displays the shearing forces, longitudinal bulkhead shearing force and the bending moments in tabular form together with the limit values, and percent to the limits.

Strength in graphics (Strength graph)

The program calculates and displays shearing forces, and bending moments (green curve) in graphics together with the limit values.

Damage stability

Residual stability calculation at the time of hull fracture flood is performed automatically.

SYSTEM CONFIGURATION

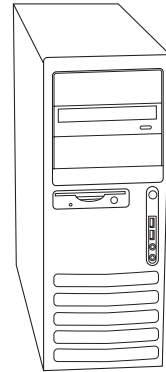Software (Manufacturer's scope)

CD-ROM
 (When soft ware only)

Computer (Manufacturer's arrangement)
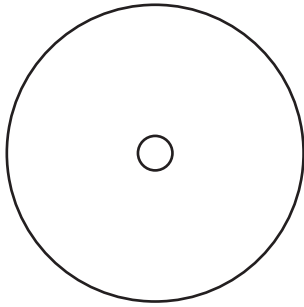
When we prepare a personal computer, install is made at our company.
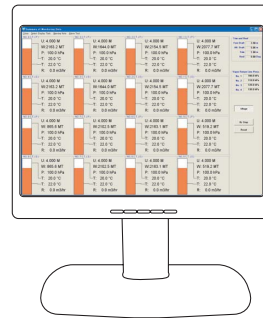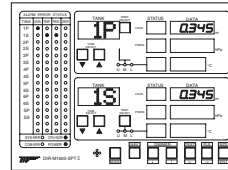
TFT

CPU

Various level gauges (Manufacturer's scope)

SPT-3500 Hall IC type level gauge

Others DC4 to 20mA output

(Air purge, Pressure, and Level)

Interface (Manufacturer's scope)

DIR-M1600 series (For SPT-3500)

OPTION

Loading computing module and Damage stability

CALTIS II has a built-in Loading computing module and Damage stability as option.

Loading computing module and Damage stability have type approval of most shipping classification societies, and it can monitor level and operate loading function.

* Specification is subject to change without notice.

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ISO 9001 Certified
JQA-2172