

KHOA S-100 Viewer

User Manual



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1. Introduction

1) Introduction

The KHOA S-100 Viewer is an S-100 dataset viewer that complies with the International Hydrographic Organization's S-100 standard. It was developed for the purpose of verifying and testing the S-100 standard.

2) Key features

- The internal structure of the system complies with the S-101 Feature Catalogue and Portrayal Catalogue and supports ISO/IEC 8211 encoding.
- Supports S-100 dataset loading, portrayal, object properties and spatial information verification.

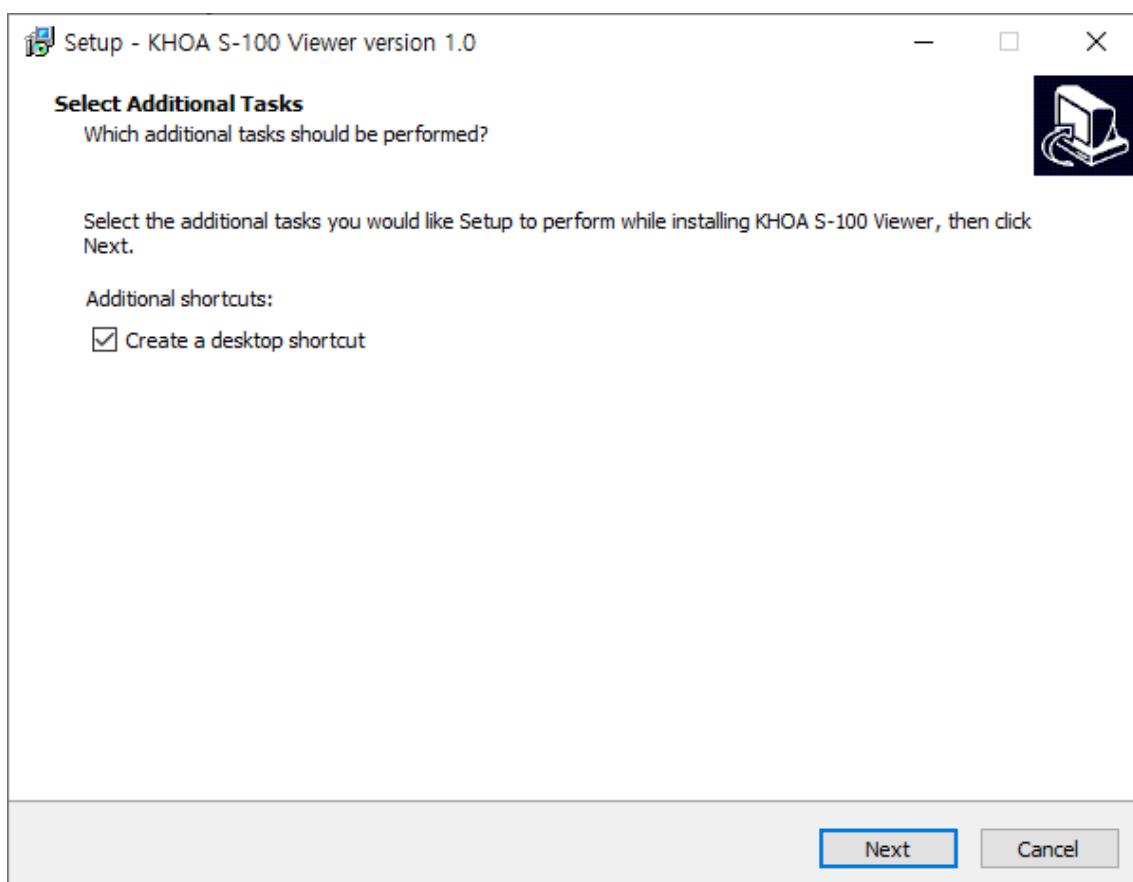
3) System requirements

Category	Minimum requirements
OS	<input type="radio"/> Windows 7 or later (DirectX 10.1 or later)
CPU	<input type="radio"/> 1GHz
RAM	<input type="radio"/> 2GB
Storage	<input type="radio"/> 1GB
Architecture	<input type="radio"/> x86 <input type="radio"/> x64

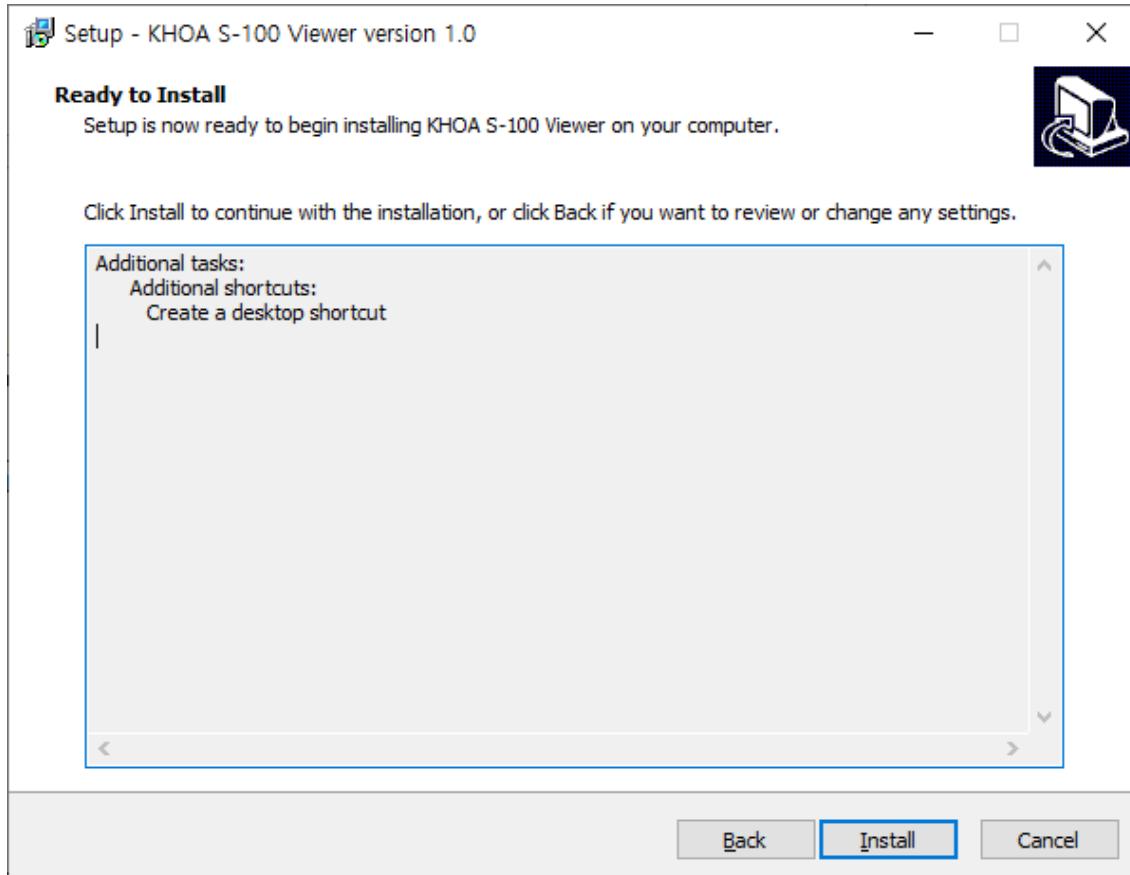
2. Install & Run0

1) Install

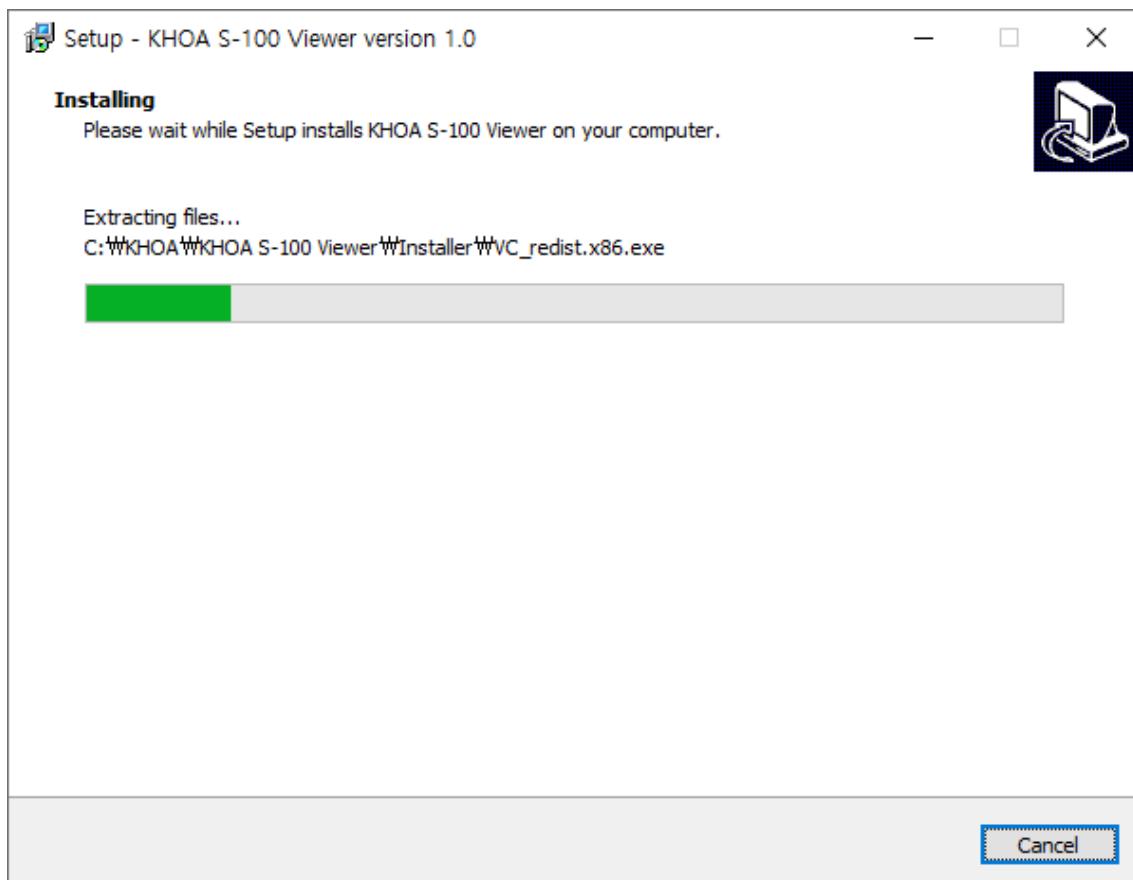
- A) Run the KHOS-100 Viewer – Installer.exe.
- B) When the installer runs, you can choose whether to create a shortcut. Check if you want a shortcut and click the [Next] button.



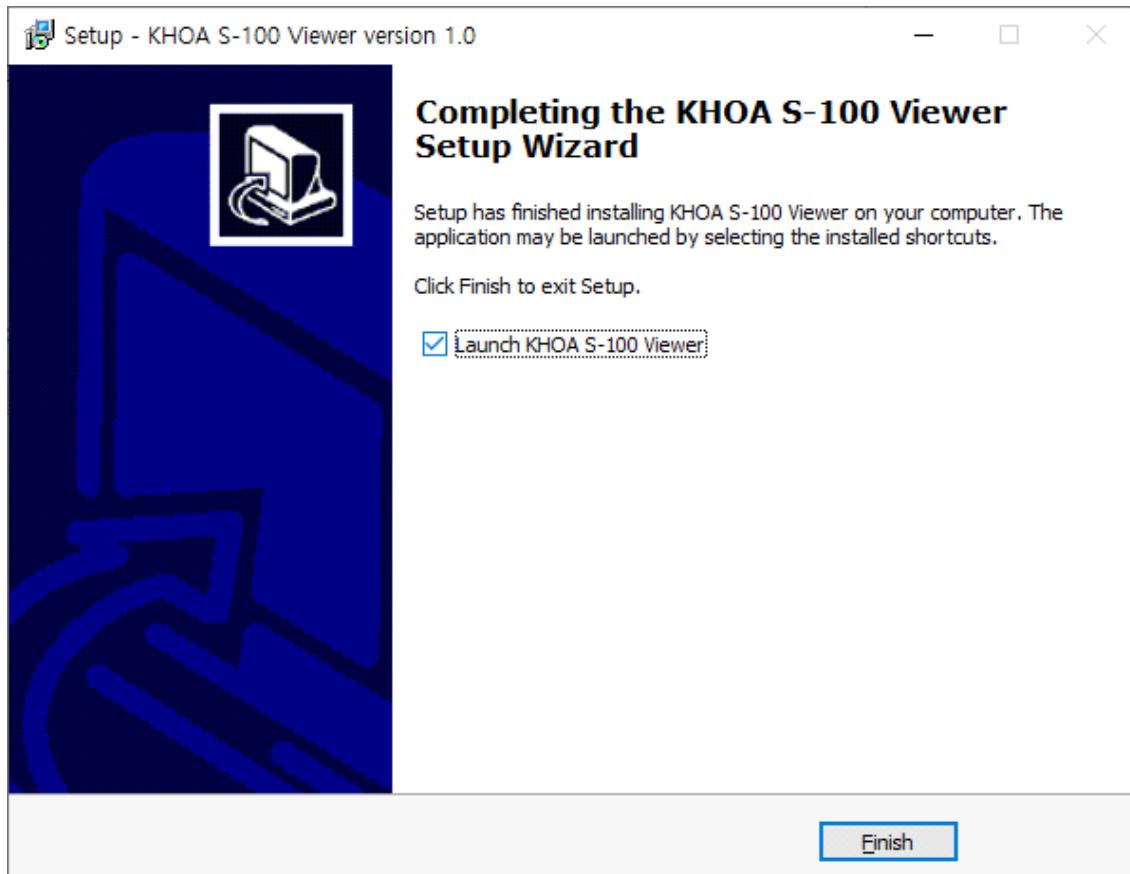
C) Installation information appears. Confirm and click the [Install] button.



D) Installation will proceed.



- E) Installation is complete. It will run automatically when you click the Finish button to complete it.



2) Run

To run the KHOS-100 Viewer, you can use shortcuts or run directly from the installation folder.

A) Run using the shortcut icon on the desktop.

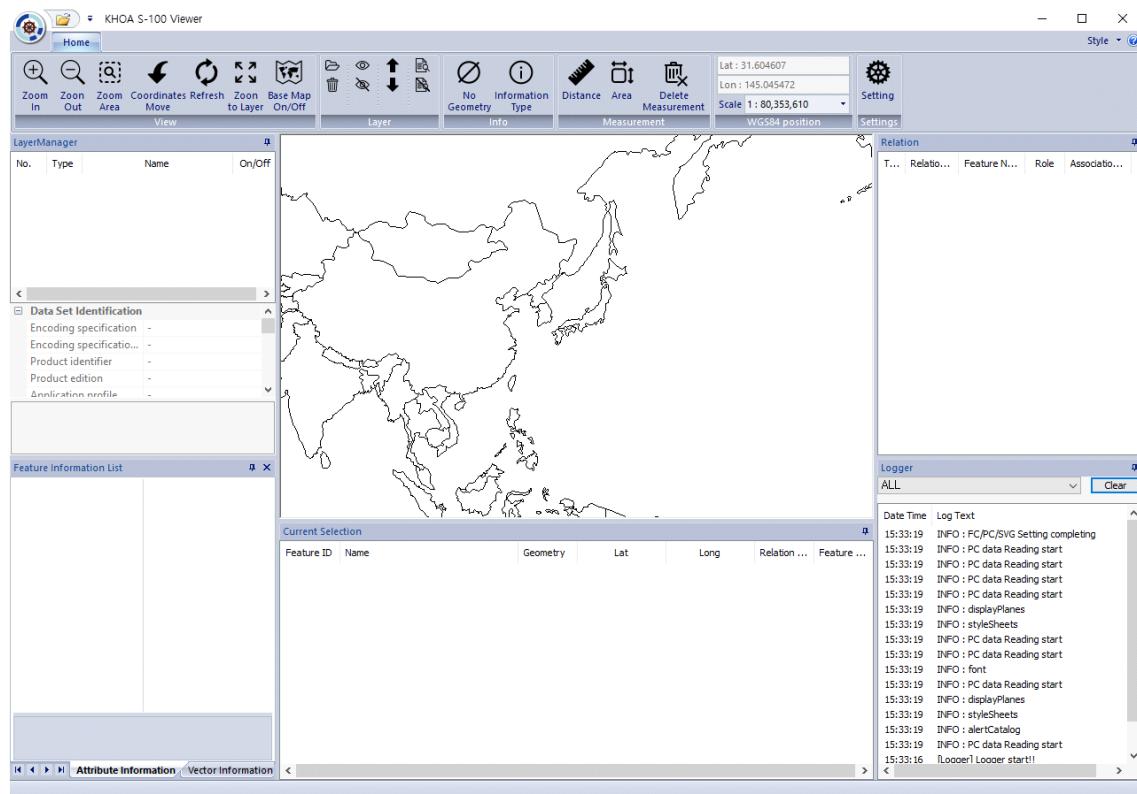
Run using the shortcut icon on the desktop.



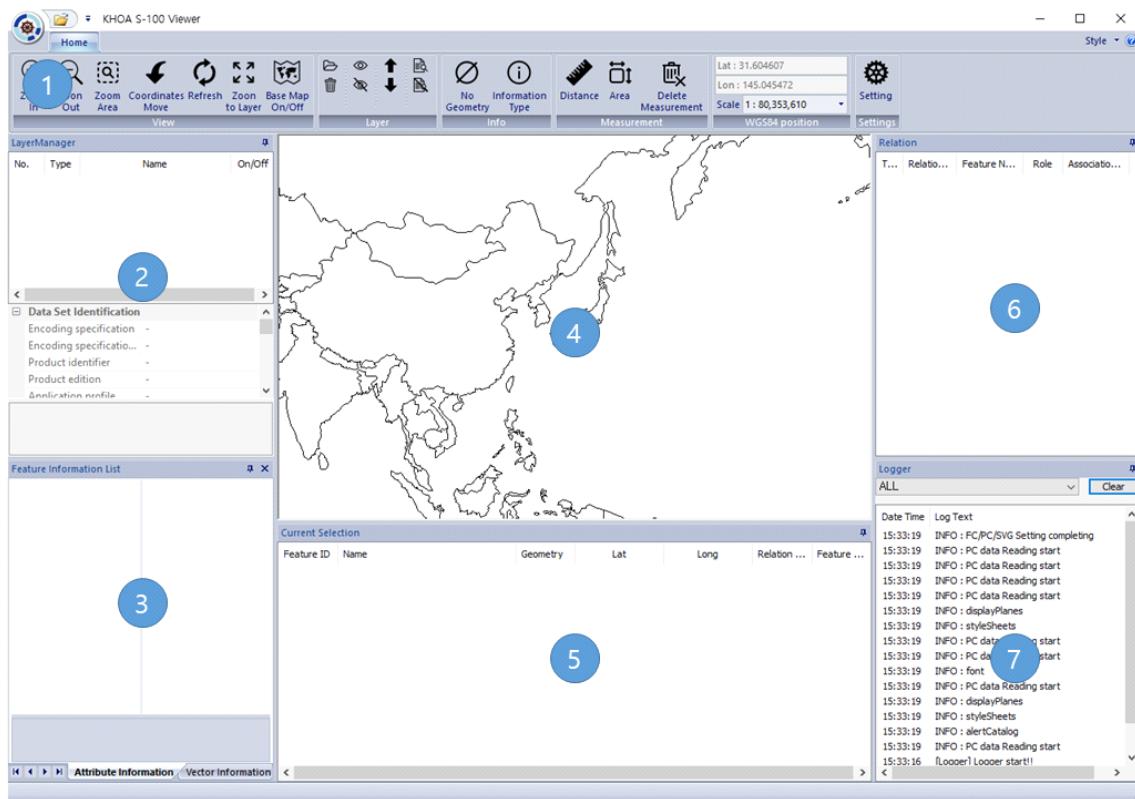
B) Run Installation File directly

Run the C:\KHOA\KHOAS-100\Viewer\bin\KHOAS-100\Viewer.exe.

C) Run Screen



3. Screen guidance



1) Menu

The area that displays the menu.

2) Layer(Dataset) Manager

The area that displays the list of layers. You can run layer-related operations and view the properties of the layer.

3) Object Properties and Vector Information Display Area

The function to view properties of an S-100 feature or information type.

4) Map

An area that displays S-100 dataset.

5) Selected Object List Area

An area that shows a list of objects selected in the map area.

6) Relational Object List Area

Area that shows relationship information for the selected object or information type.

7) Log

The area that shows the logs that occur on the system.



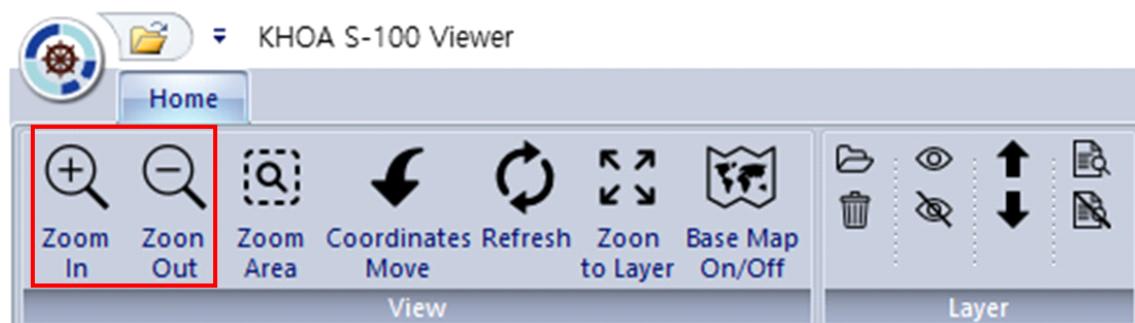
4. Key features

1) Map Move

You can move the map area by dragging it with the mouse in the map area.

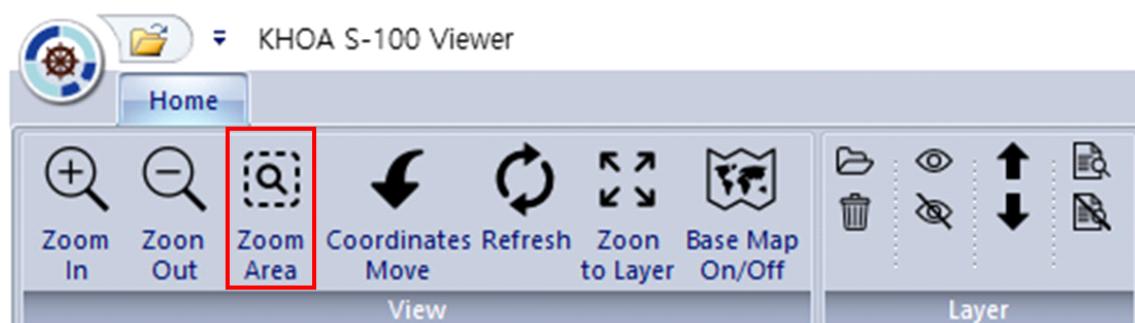
2) Zoom In / Out

You can zoom using the [Zoom In]/[Zoom Out] button or the mouse wheel.



3) Zoom Area

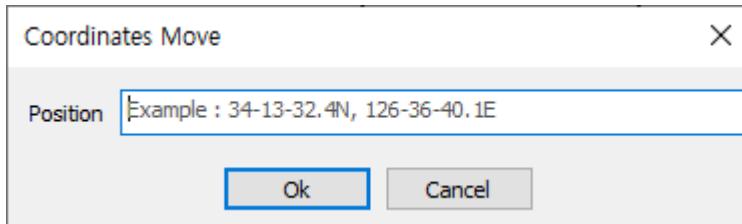
Click the [Zoom Area] button, drag and select the area you want to zoom in on, and you can zoom in to that area.



4) Go to Custom Coordinates

Clicking the [Coordinates Move] button opens a window where you can enter the coordinates you want to move.

When you enter a coordinate, as shown in the Input Example, it moves to that location.

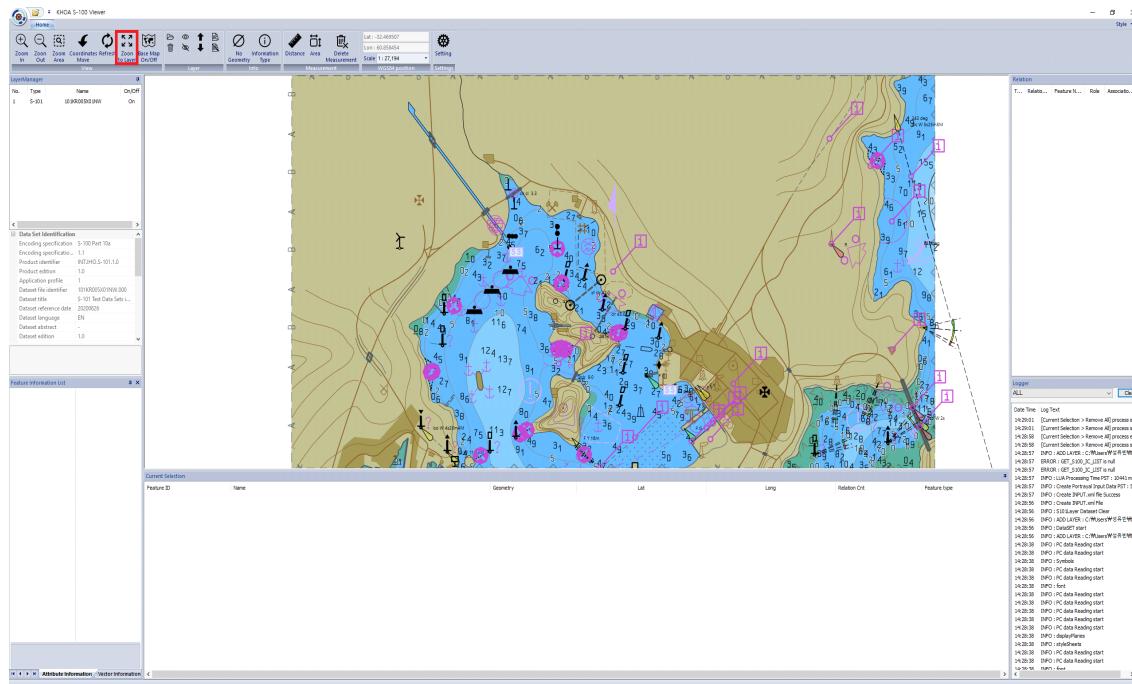


5) Refresh

Redraw the map. Use if there is an error.

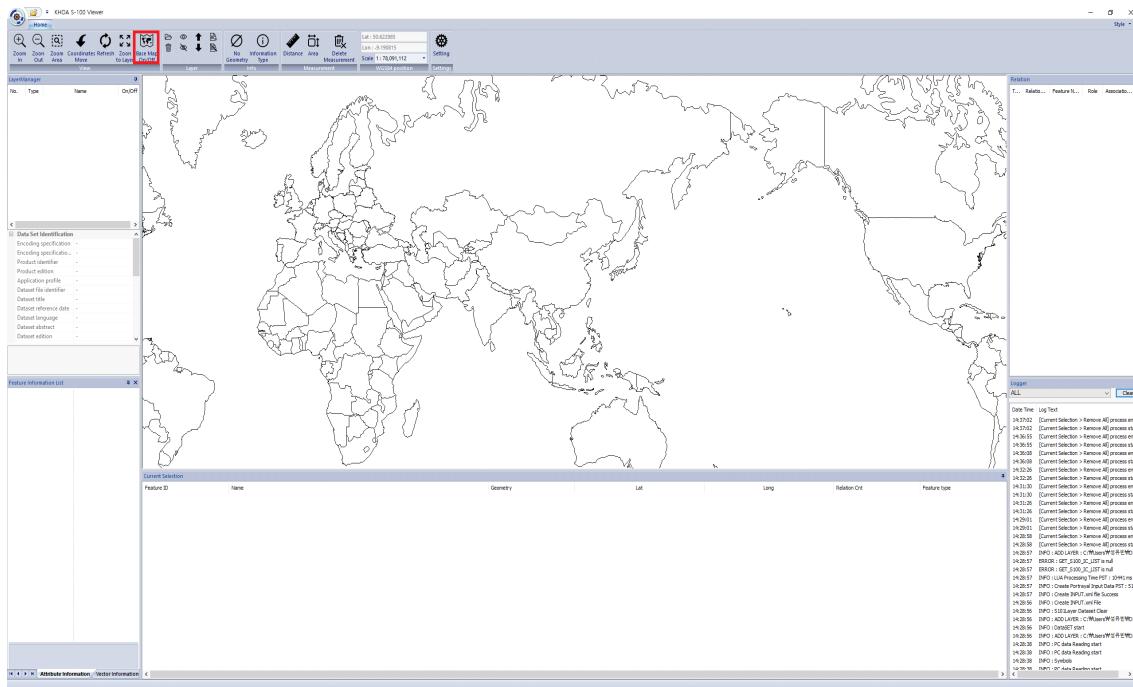
6) Zoom to Layer

Select an opened layer from the layer management area and use the [Zoom to Layer] button to make the layer look full on the screen.



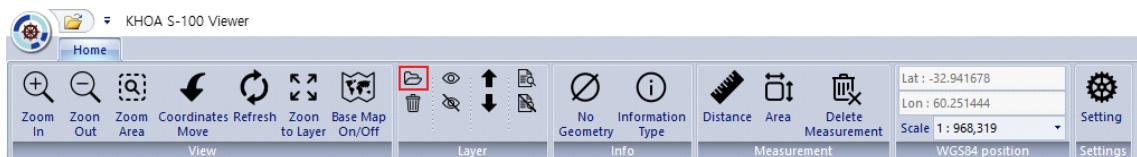
7) Base Map ON/OFF

The [Base Map On/Off] button enables you to turn on and off the background



8) Open a Layer(Dataset)

You can open the layer by clicking the Open File button.



The KHOS-100 Viewer provides three ways to select FC/PC:

- Auto selection

This method automatically selects the FC/PC installed with the KHOS-100 Viewer by prefix, the 3 letters of the file name.

- Select on pre-installed list.

This is the user's own choice from the list of FC/PC installed with the KHOS-100 Viewer.

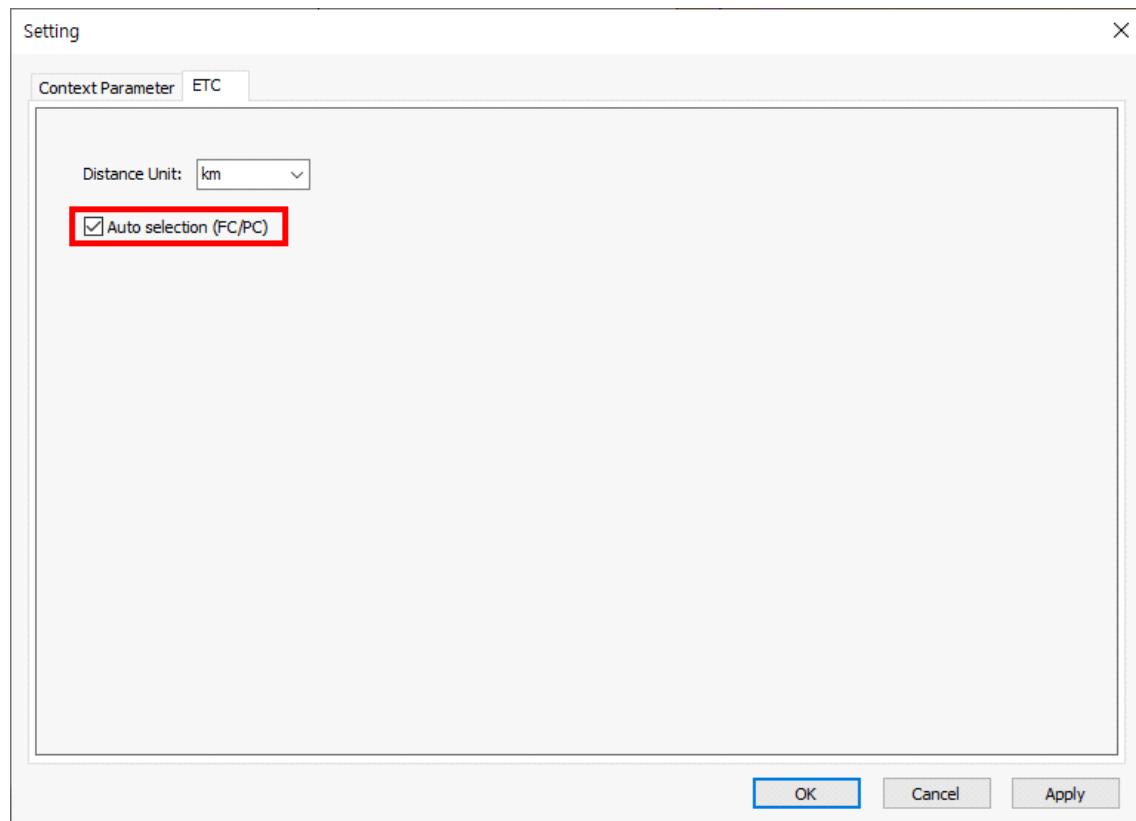
- Direct selection.

This is how you select the FC/PC that you have.

A) Auto selection

(1) Turn on the Auto selection function

Check the Auto Selection function in Setting.



(2) Open File

With the Auto Selection feature turned on, select the dataset.

You must have a standard number at the beginning of the name of the dataset.

ex) 101US002EC03M.000 → S-101 auto selected

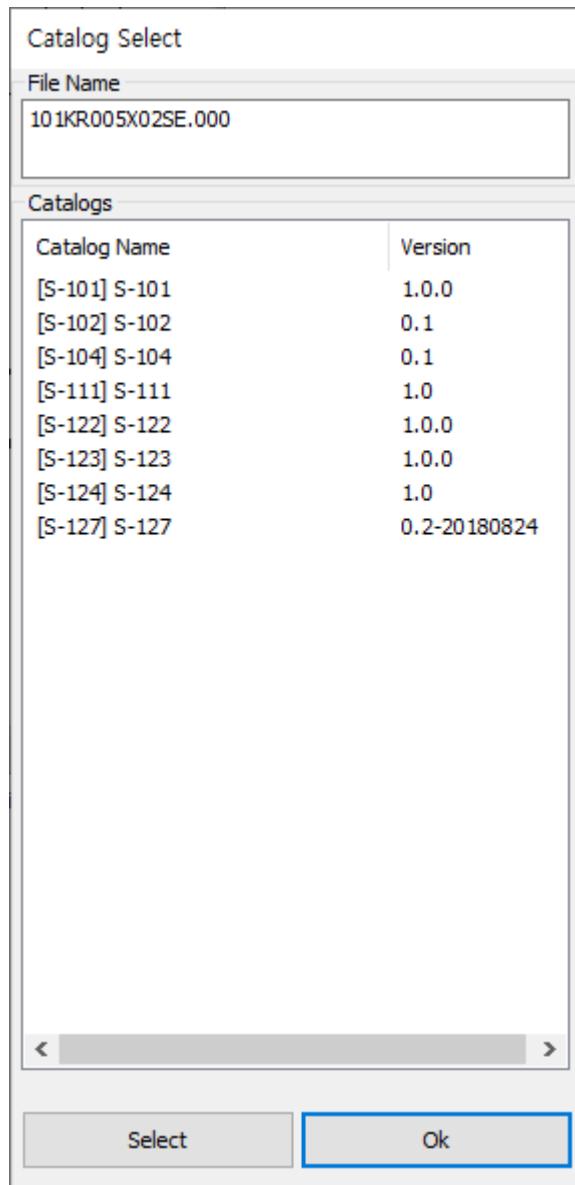
ex) 102NOAA_LA_LB_AREA_GEO_subset2_07012019_0.h5 → S-102 auto selected

ex) S111US_20190723T00Z_RTOFS_EAST_TYP2_ATLANTIC.h5 → failed to auto selection

B) Select pre-installed FC/PC

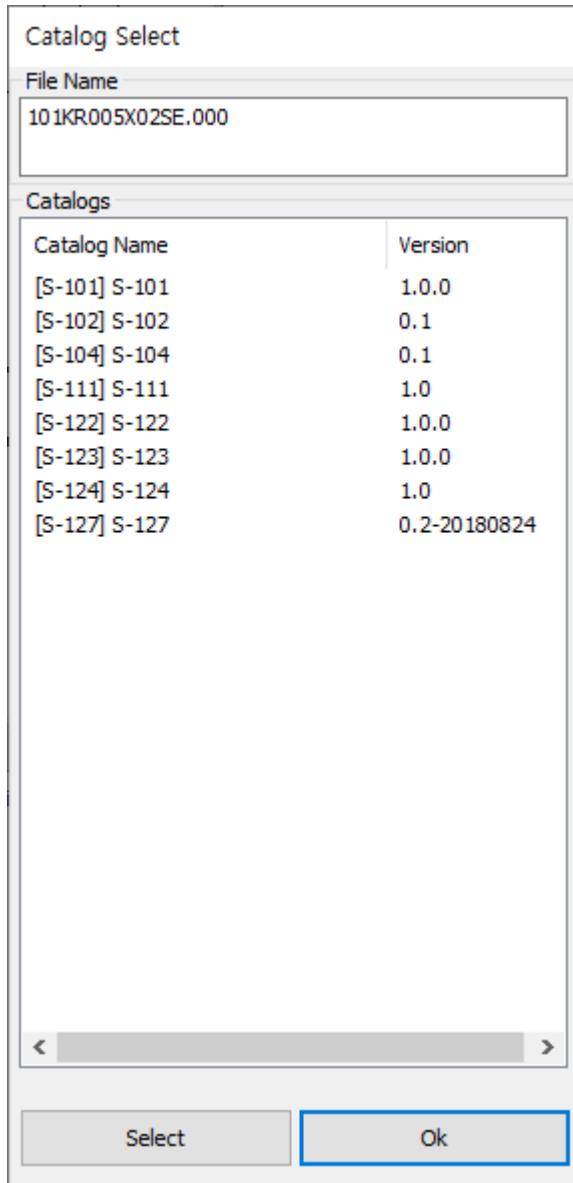
When you open the file with Auto selection turned off, a window opens to select FC/PC.

Select the desired standard and click the [OK] button.



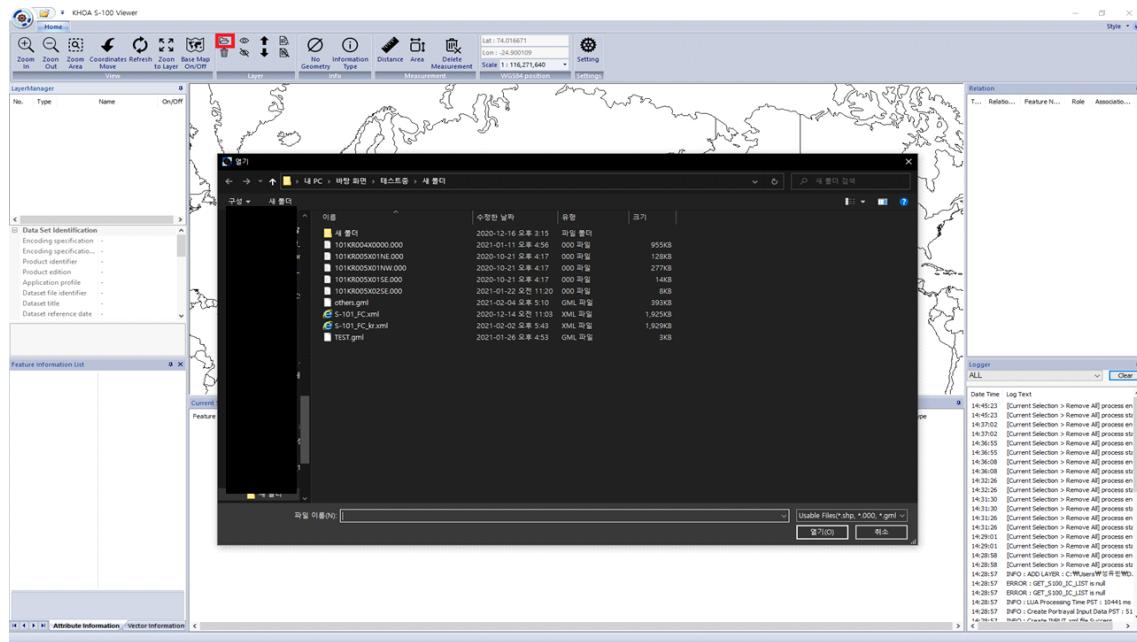
C) Direct selection

When the [Catalog Select] window appears with Auto Selection turned off, click the [Select] button to select FC and PC directly.

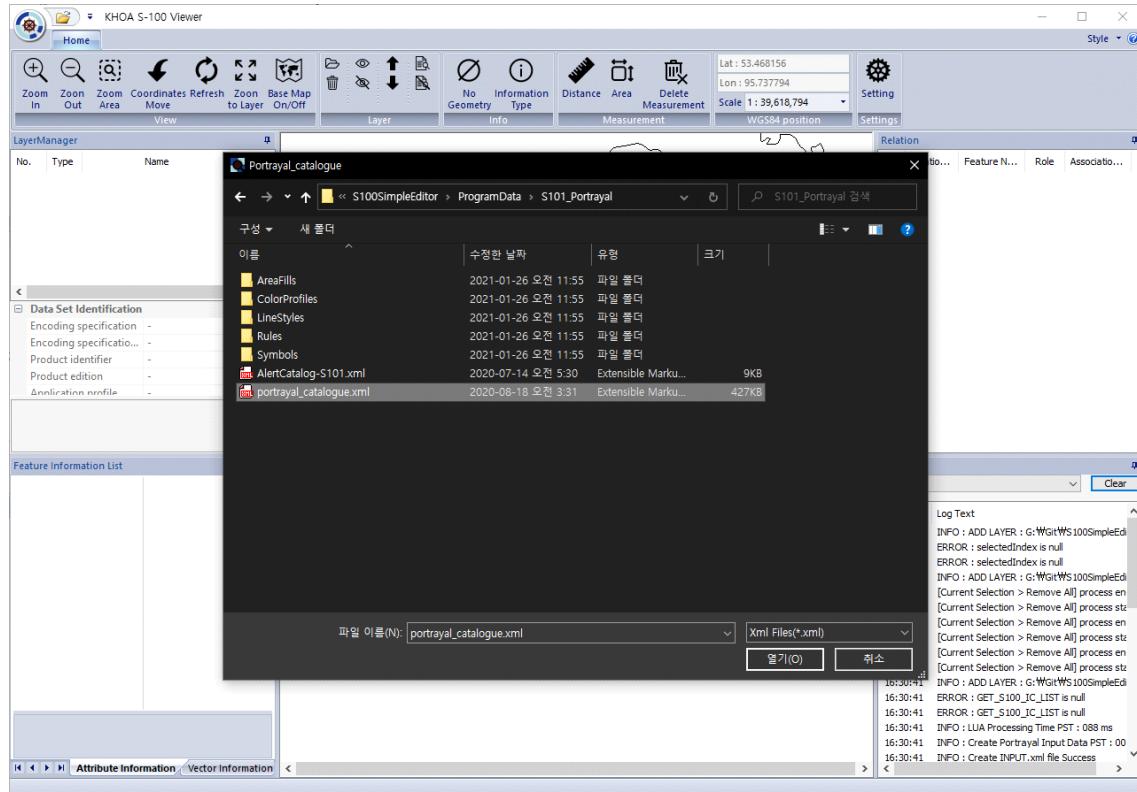


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Select FC first.

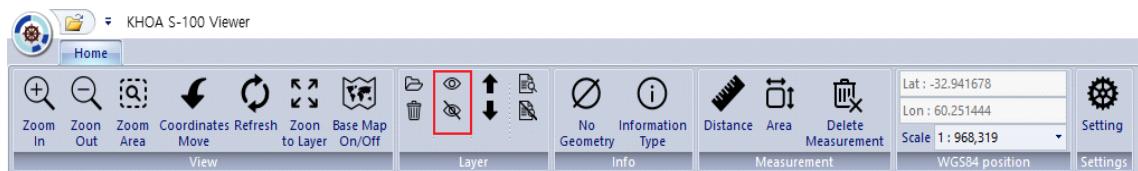


Select a PC.



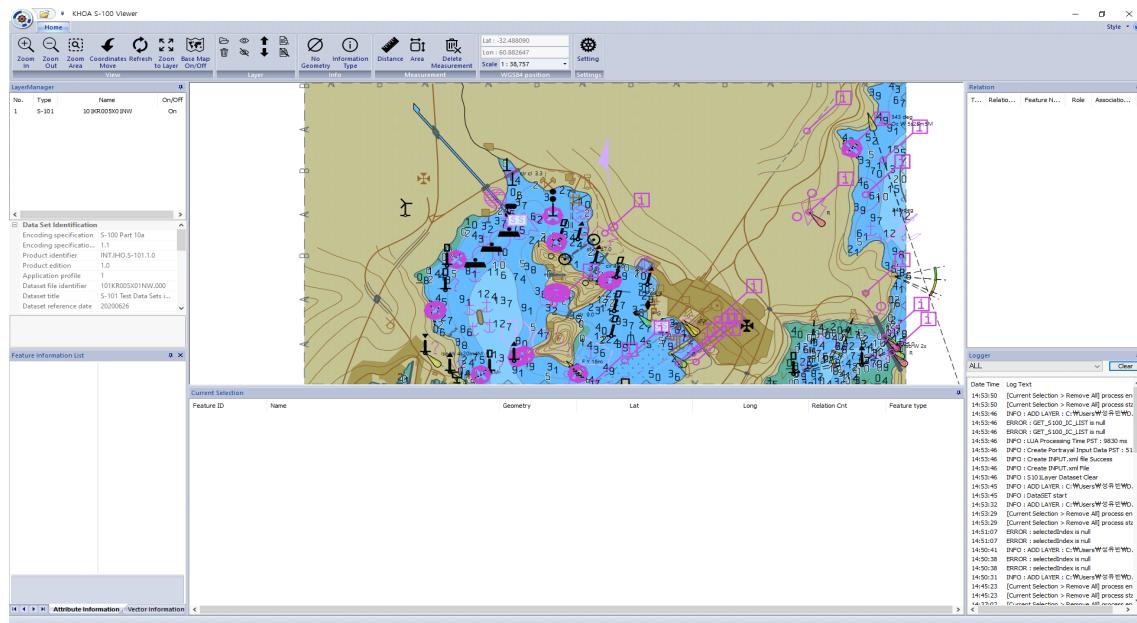
9) Layer On/Off

You can show or hide the selected layers in the Layer Management.

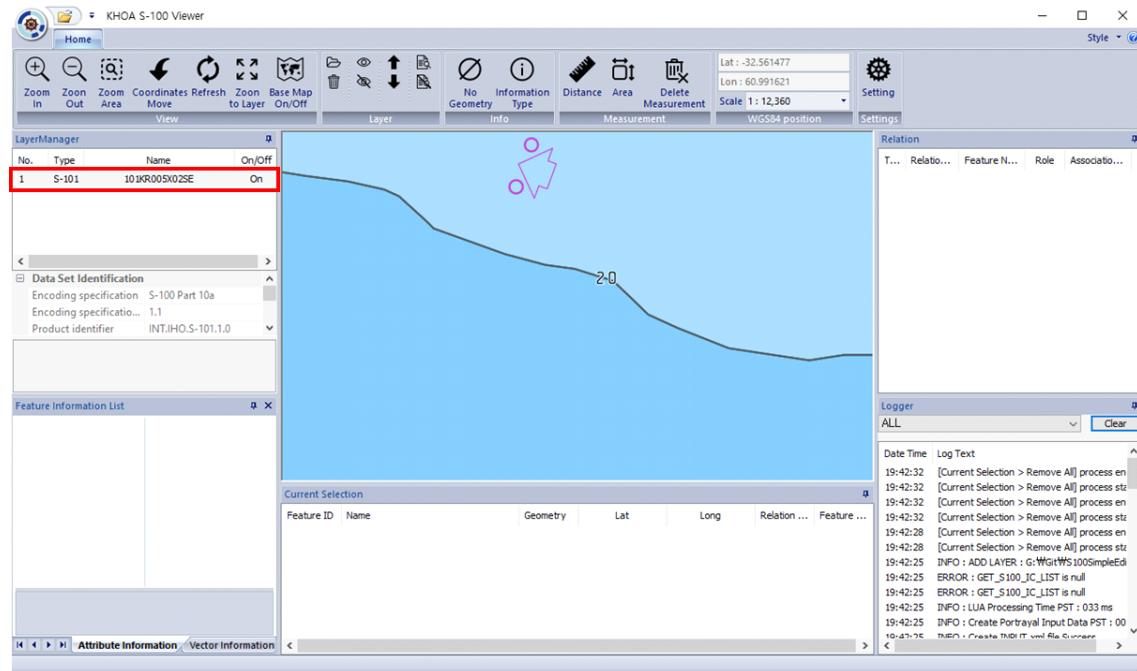


A) Layer Off

This is the screen where the layer is being displayed on the screen.

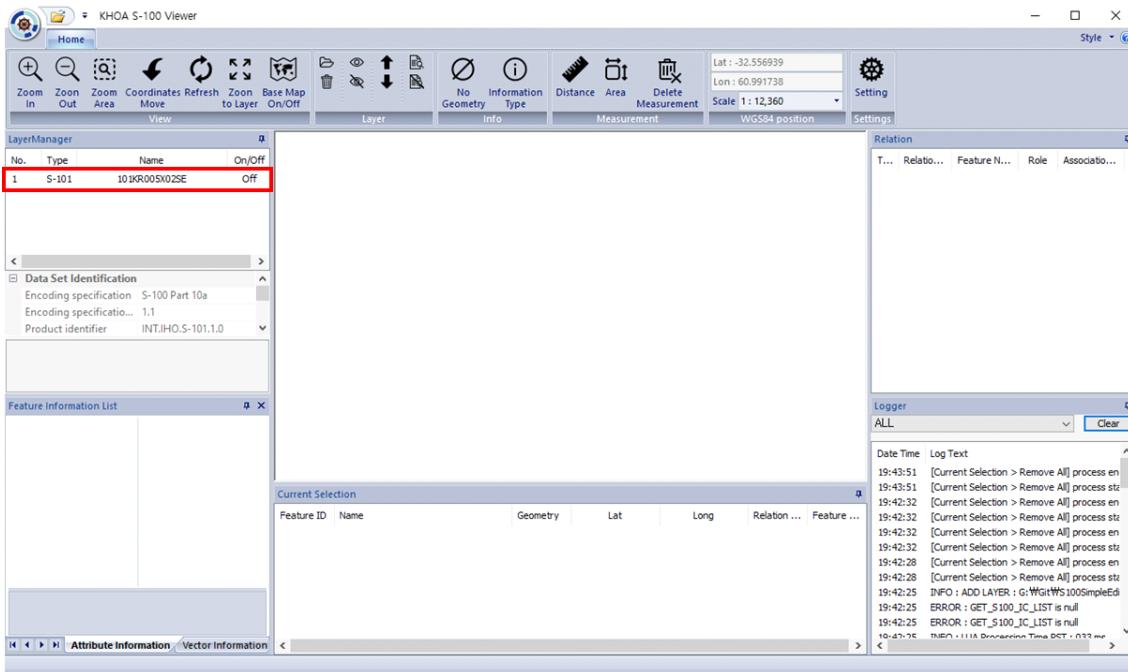


In the Layer Manager, select the layer you want to Off.



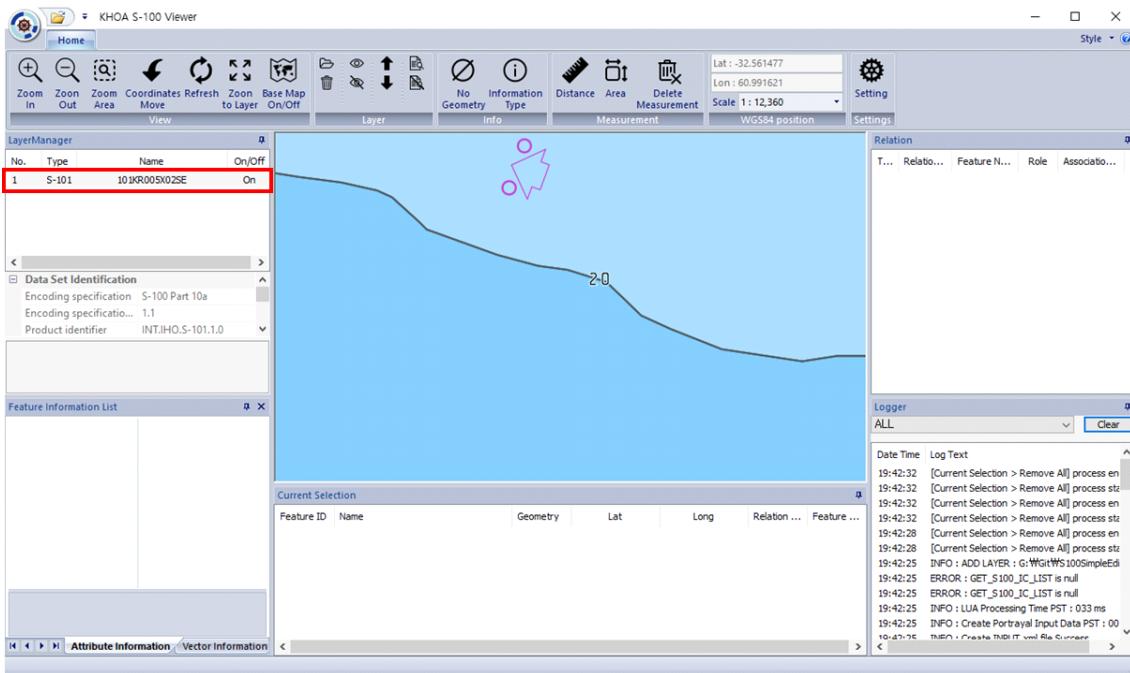
User Manual(ver_1.0.0)

When you click the hidden button () the layer is in the [off] state and is no longer displayed on the screen.



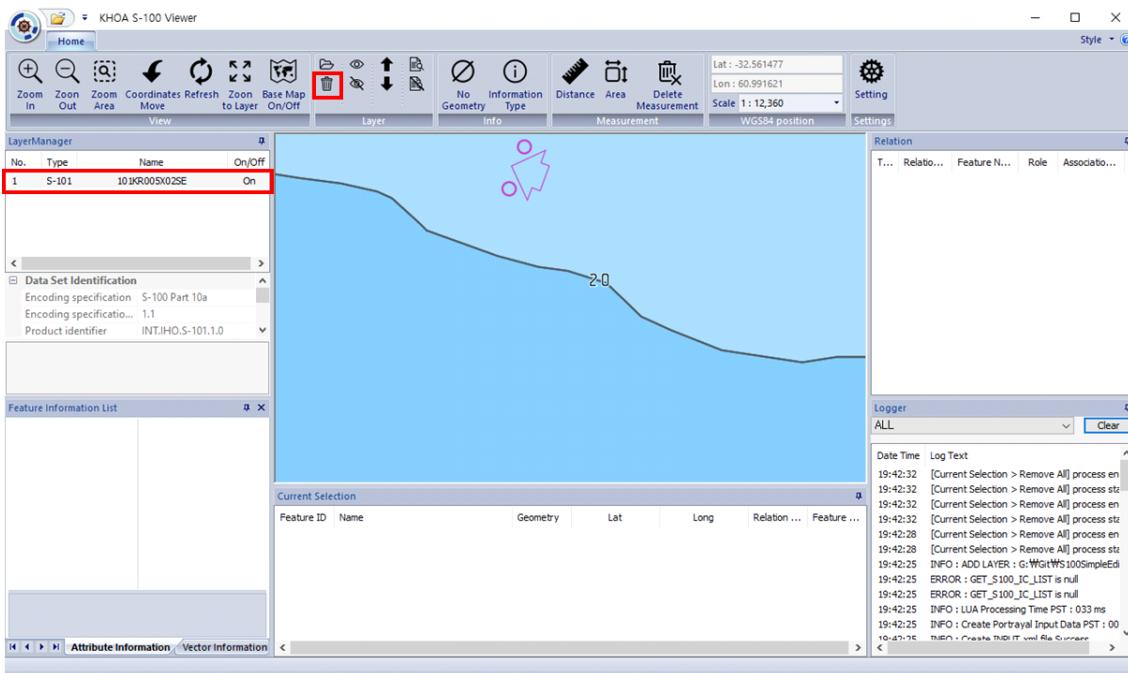
B) Layer On

When you select a layer that is in [Off] state and click the Show Layer button () the selected layer changes to [on] state and begins to be reprinted on the screen.



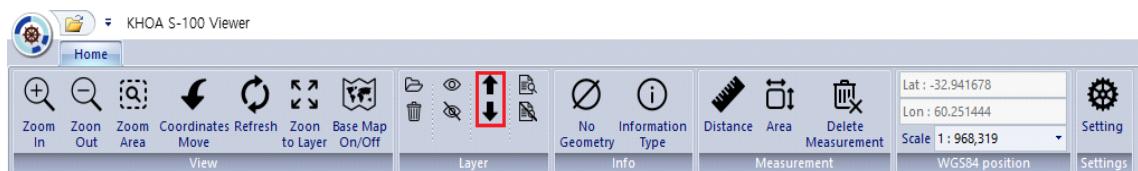
10) Close Layers

To close the layer, in the Layer Manager, select the layer you want to close and click the Close button ().



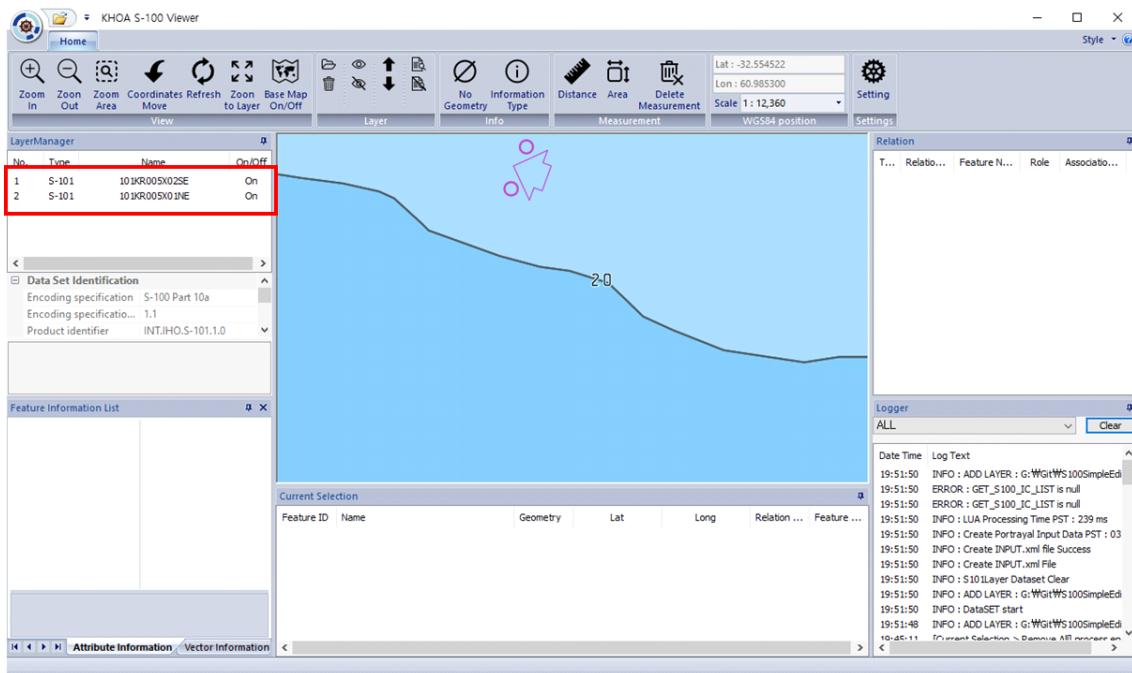
11) Change Layer Order

The order of layer representation is displayed in the layer manager and you can change the order.

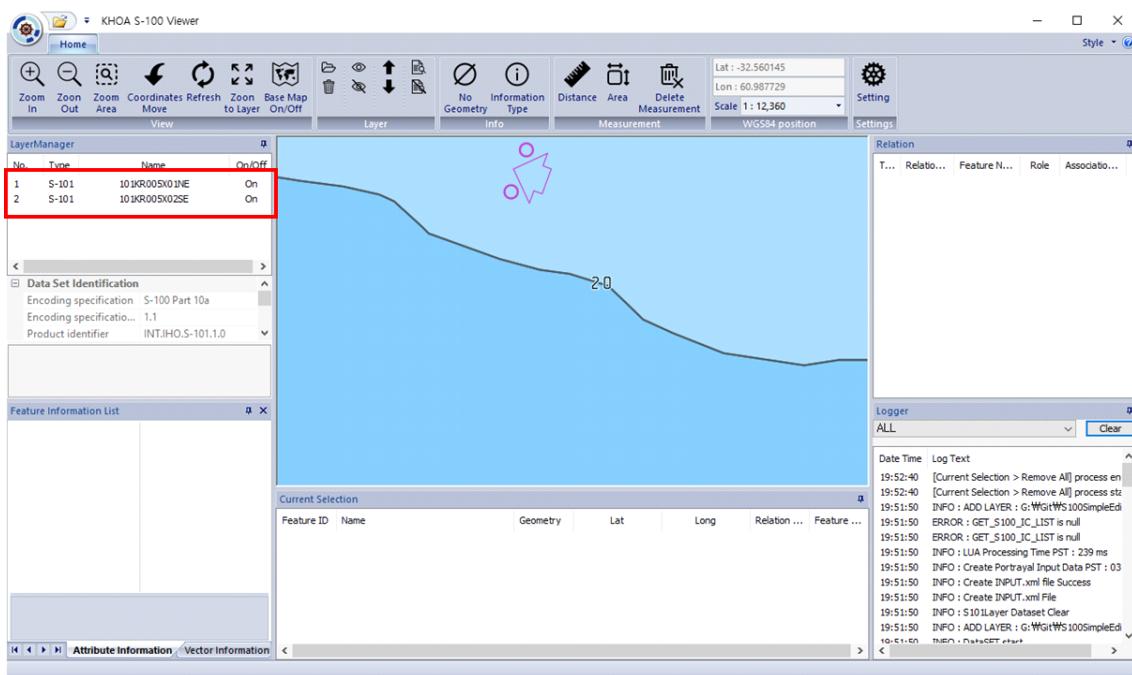


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Before changing the layer order

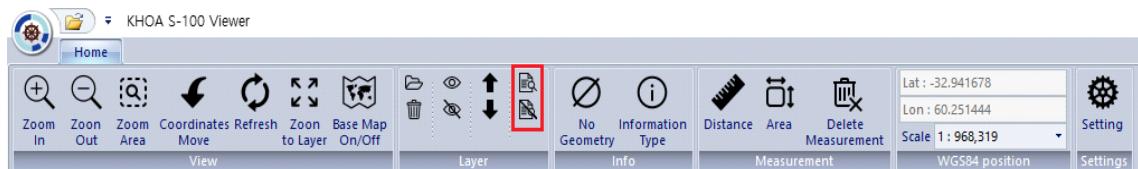


After changing the layer order



12) View Layer Information

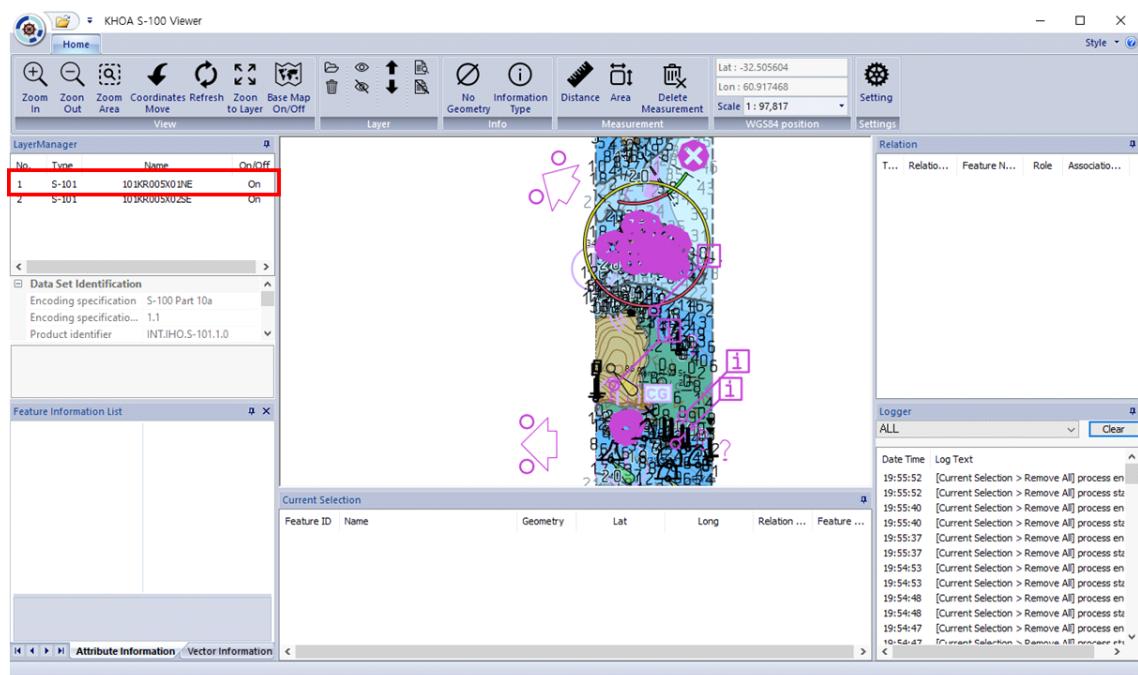
The KHOS-100 Viewer can display layer information.



A) View Layer Information

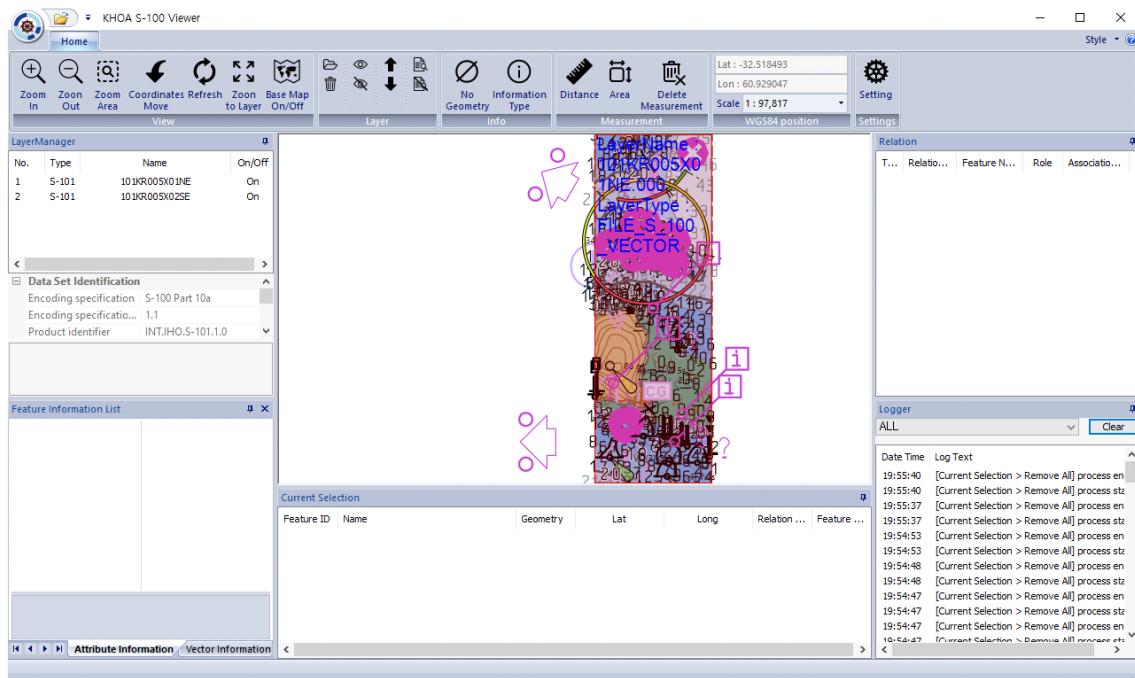
Select the layer in which you want to display information, then click the Show Information

button ()



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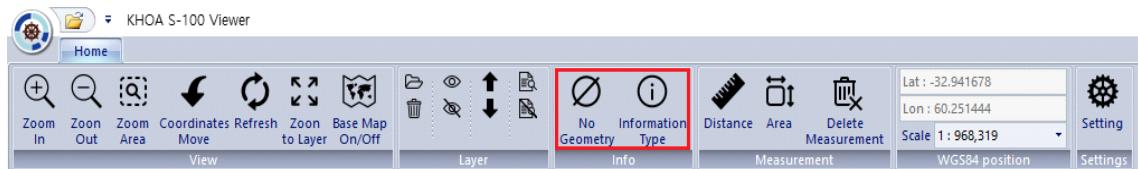
After you click, some information about the selected layer is displayed.



When you turn off layer information, click the Hide Information button ().

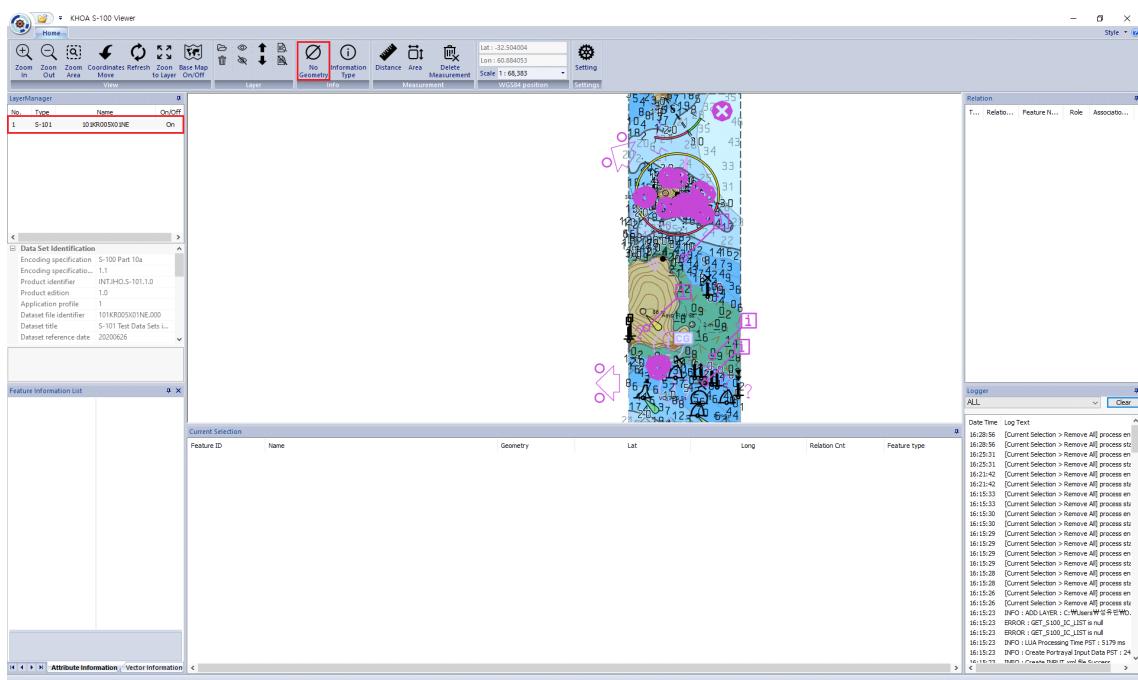
13) No Geometry/Information Type

It provides a menu to check No Geometry information and Information Type information.



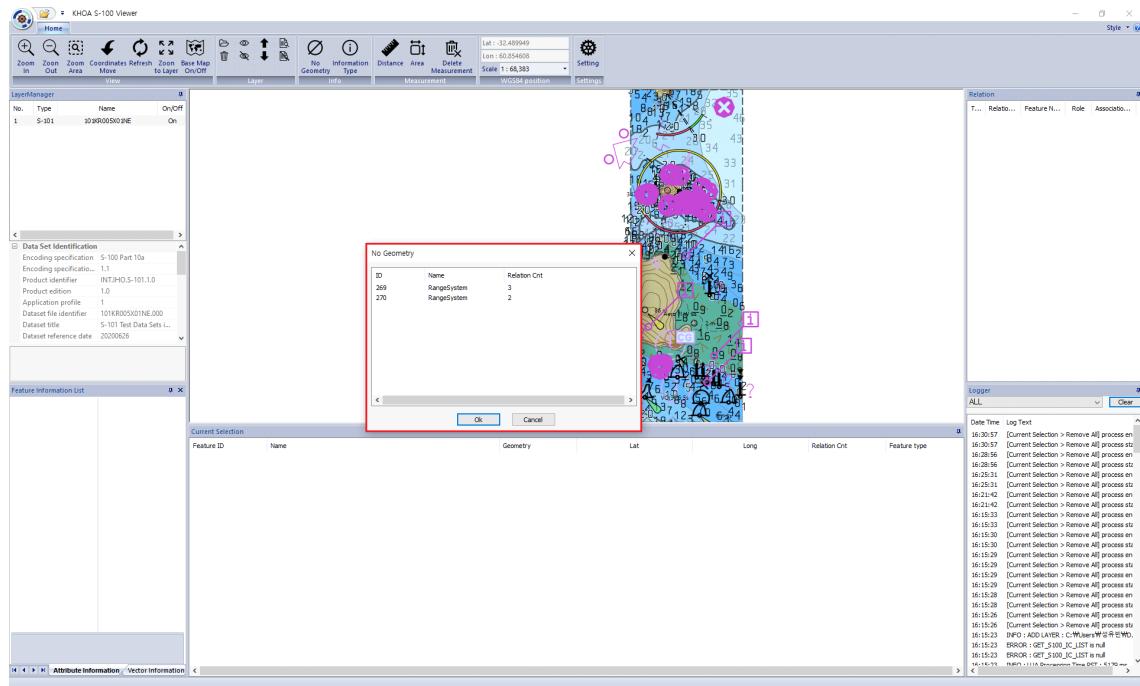
A) No Geometry

Select a layer to view No Geometry information and select the [No Geometry] button.

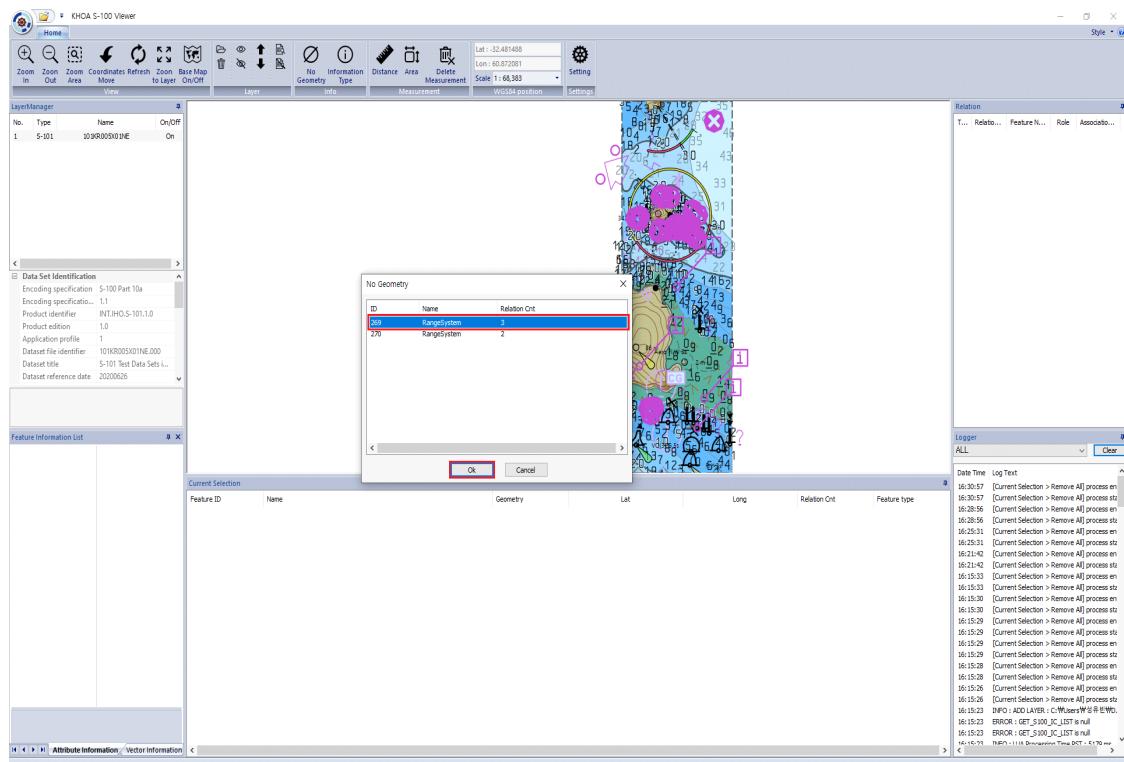


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The No Geometry information for the selected layer is displayed.

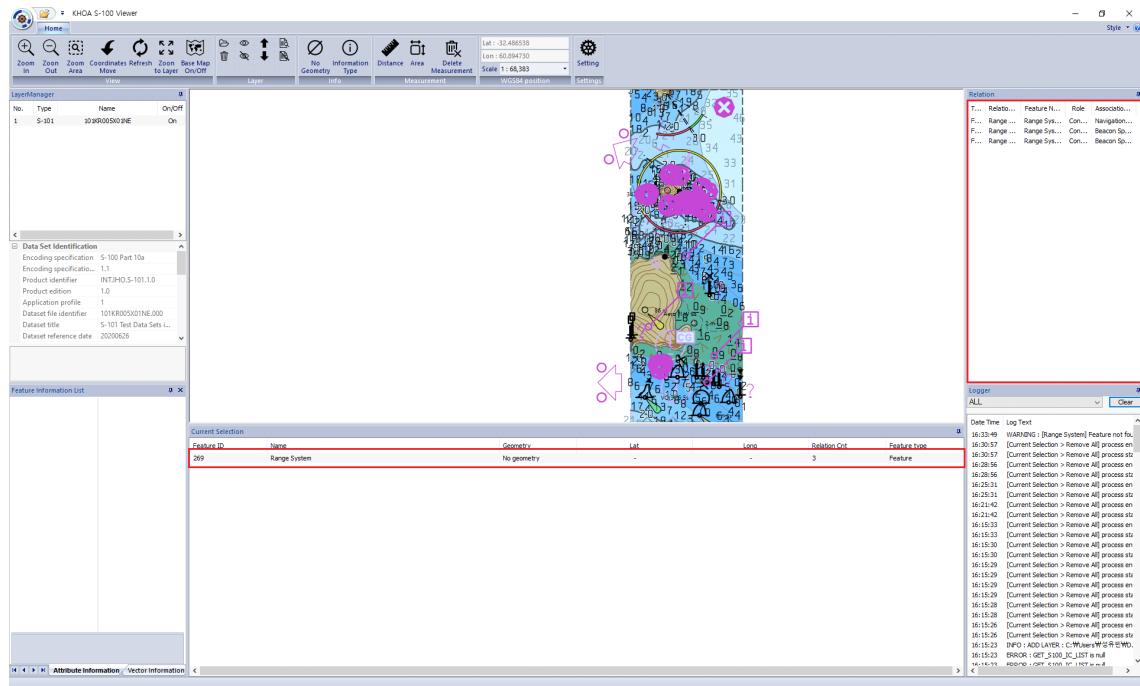


Select No Geometry to verify and add it to Current Selection with the [Ok] button.



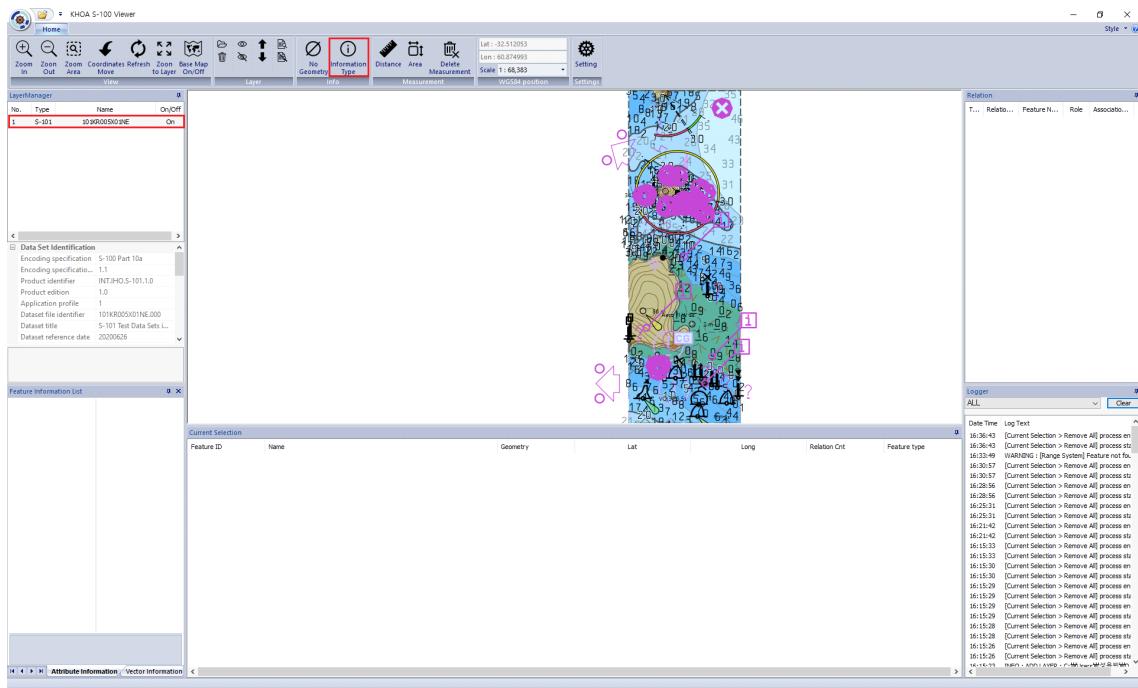
User Manual(ver_1.0.0)

You can select from Current Selection to view properties and relationship information.

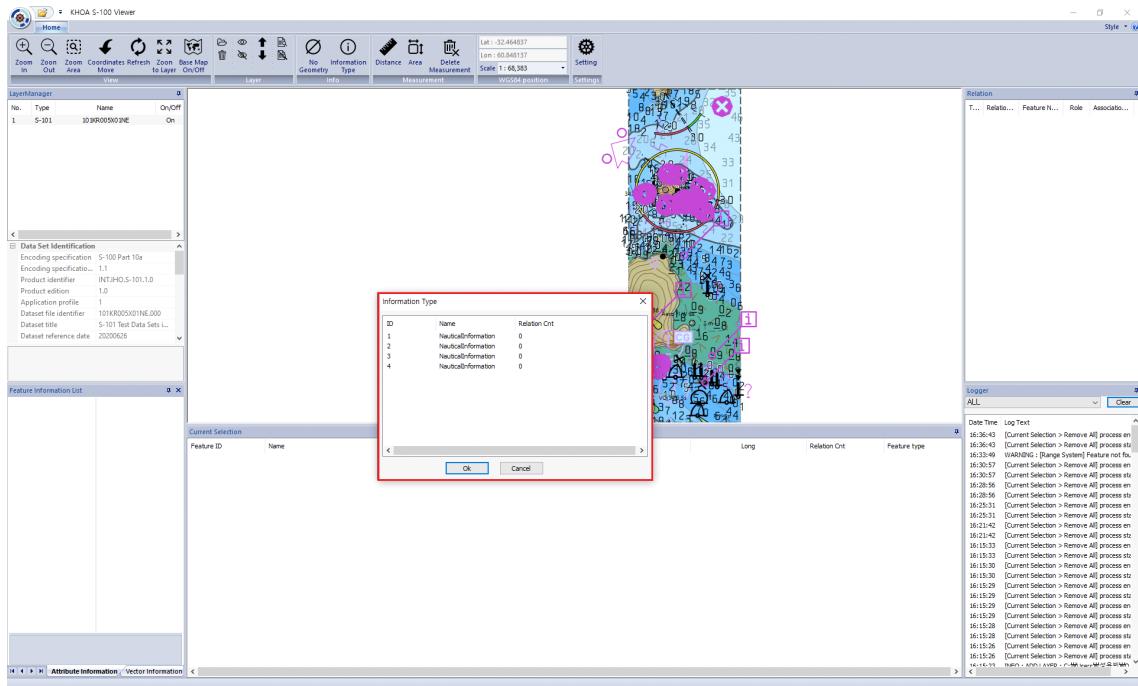


B) Information Type

Select layer, click a Information Type button.

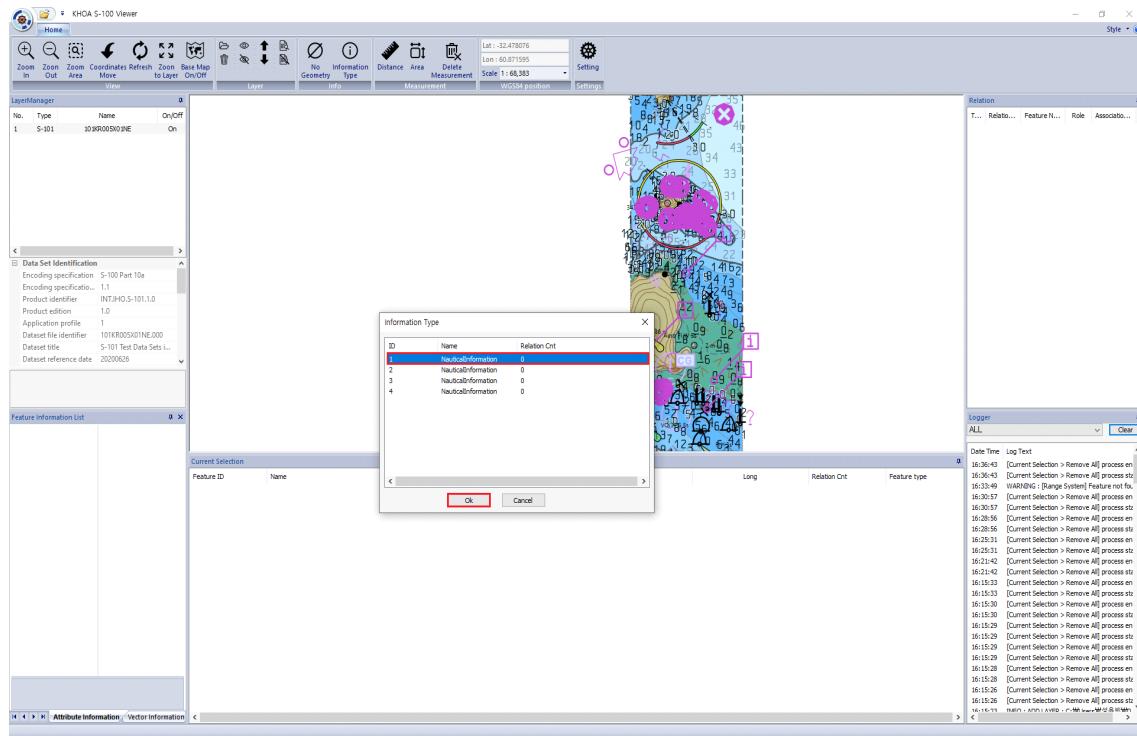


Information Type information is displayed.

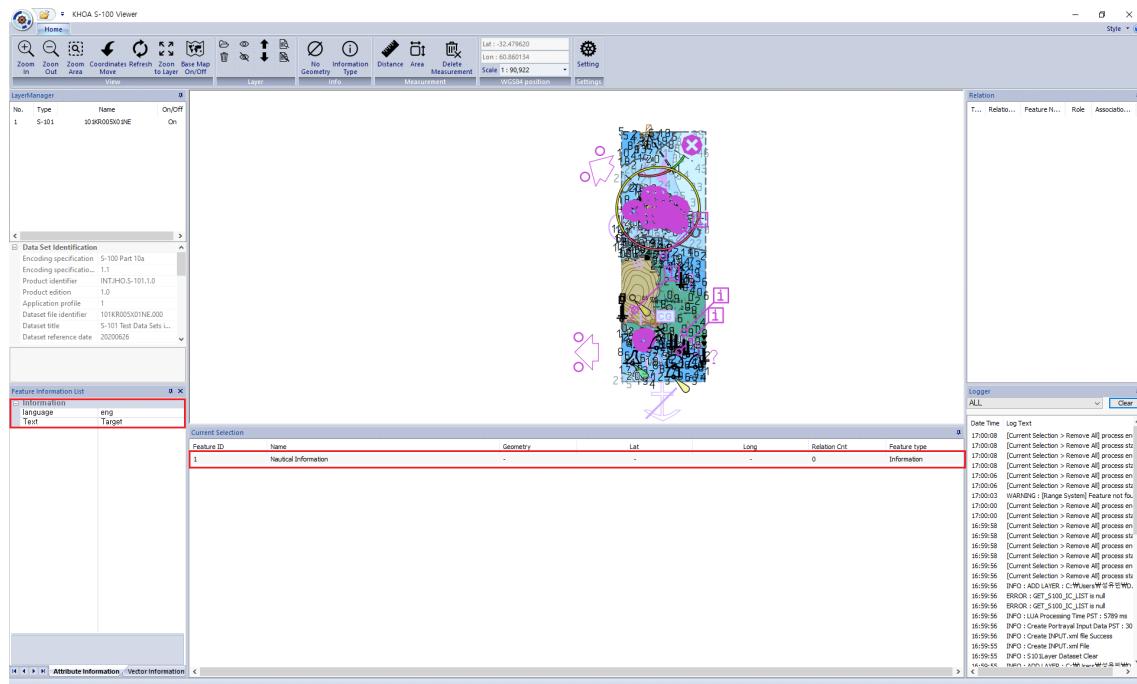


User Manual(ver_1.0.0)

Add the Information Type you want to verify to Current Selection with the [Ok] button.

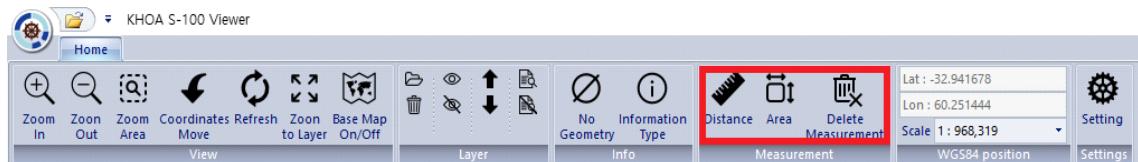


Use Current Selection to view properties and relationship information.



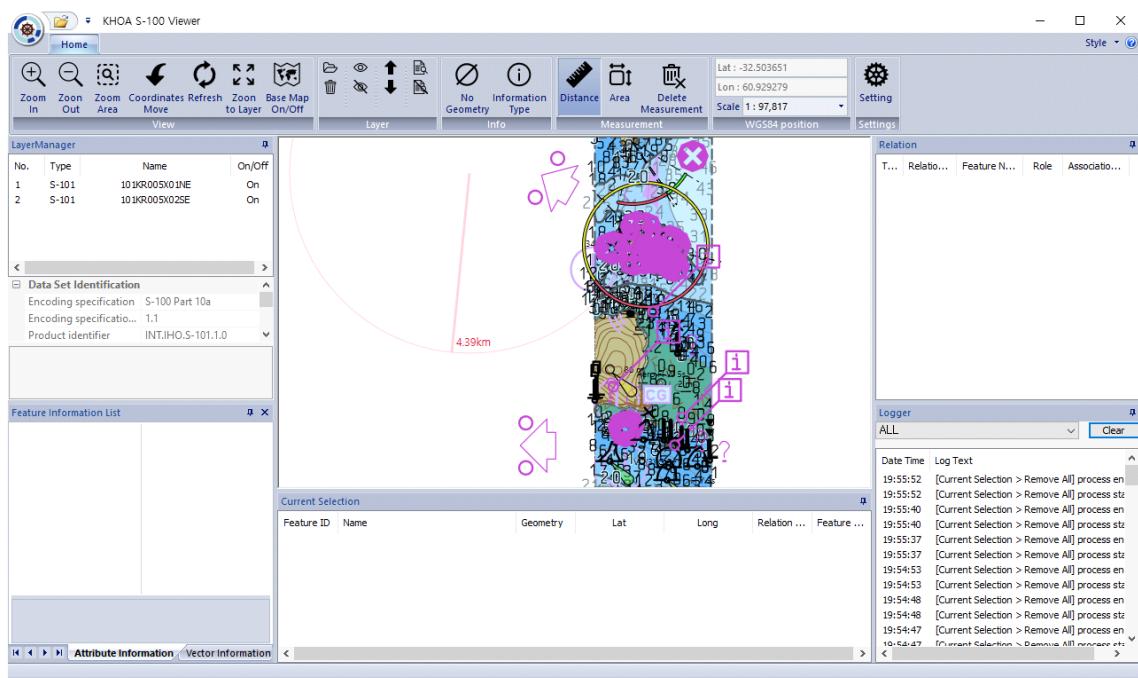
14) Distance and Area Measurement

Functions that can measure distance and area are supported



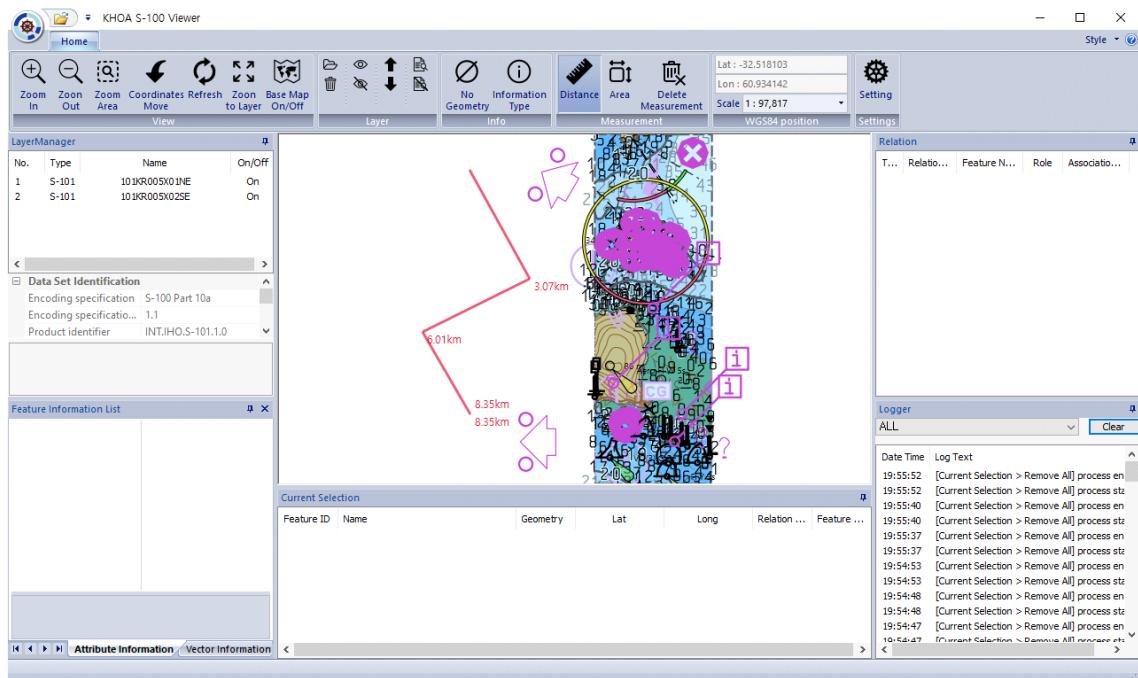
A) Distance measurement

Click the [Distance] button and then click the start point on the screen to create a red line along the mouse.



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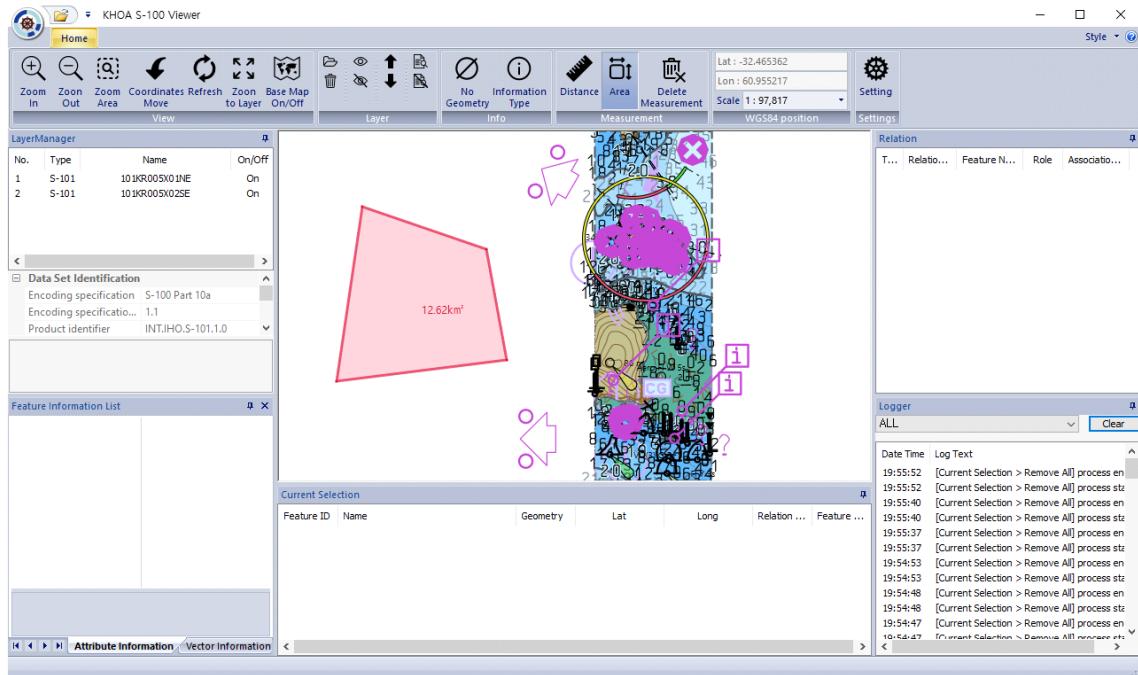
You can measure the distance of the line by clicking multiple times.



When the measurement is complete, right-click.

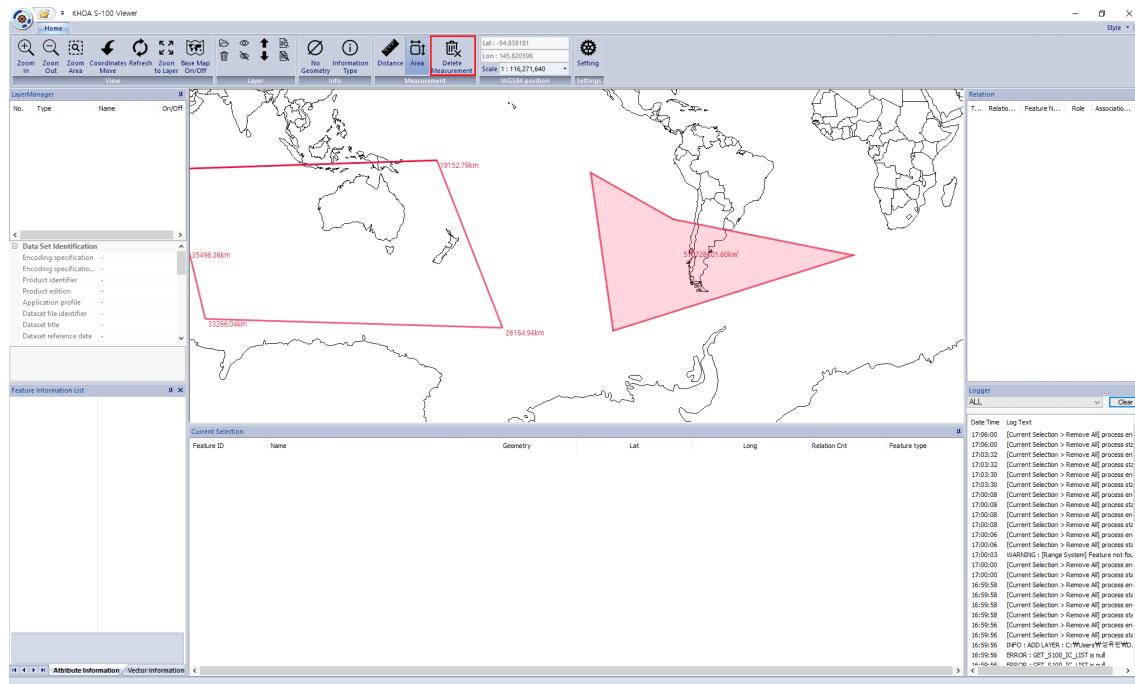
B) Area measurement

You can measure the area with the [Area] button. Area can be made in the same way as distance measurement.

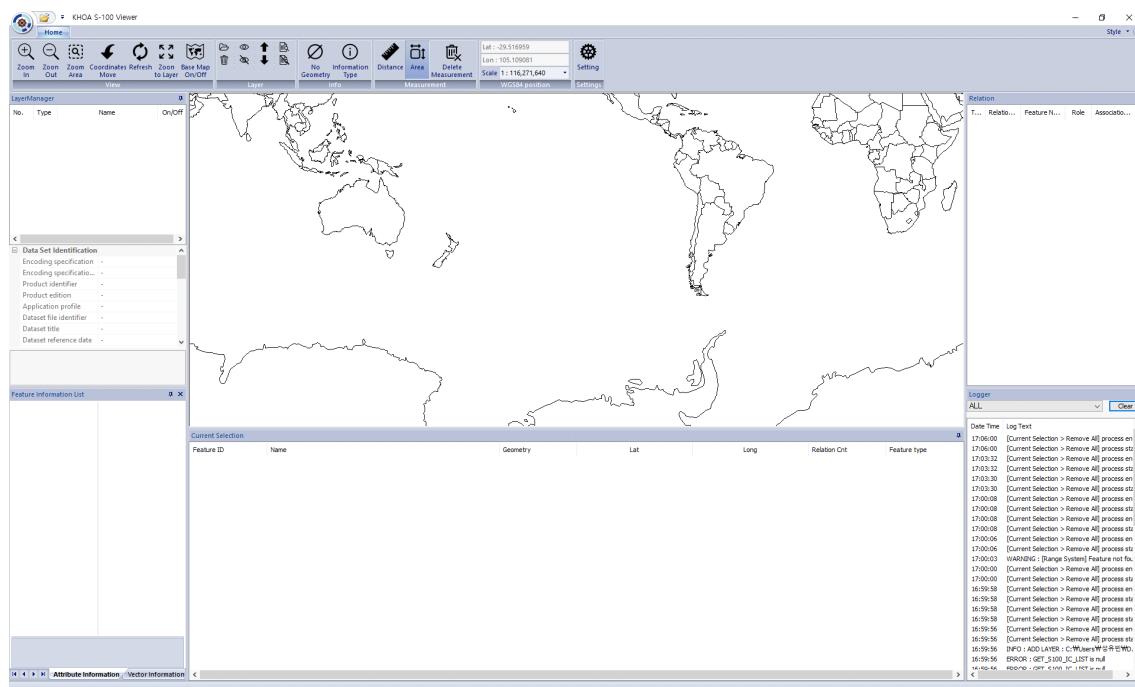


C) Deleting measurements

You can delete all measured values from the screen.

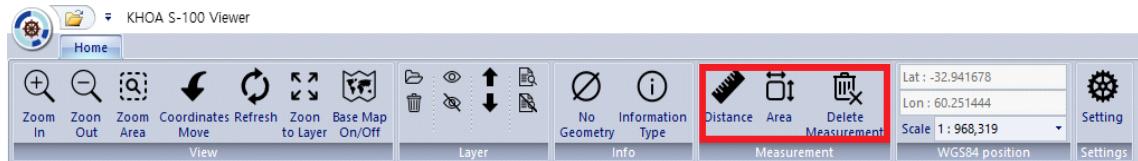


When you click the Delete Measurement button, all values that have been measured so far will disappear.



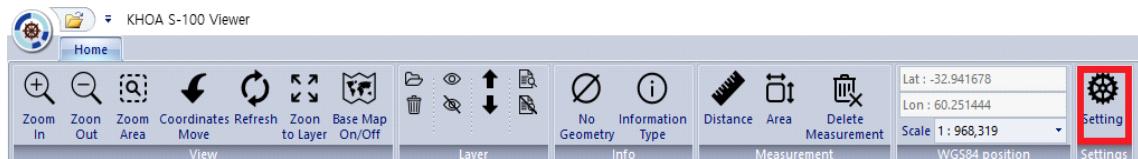
15) Show Latitude/Longitude

This menu shows the user's mouse position by converting it to a latitude/longitude coordinate.

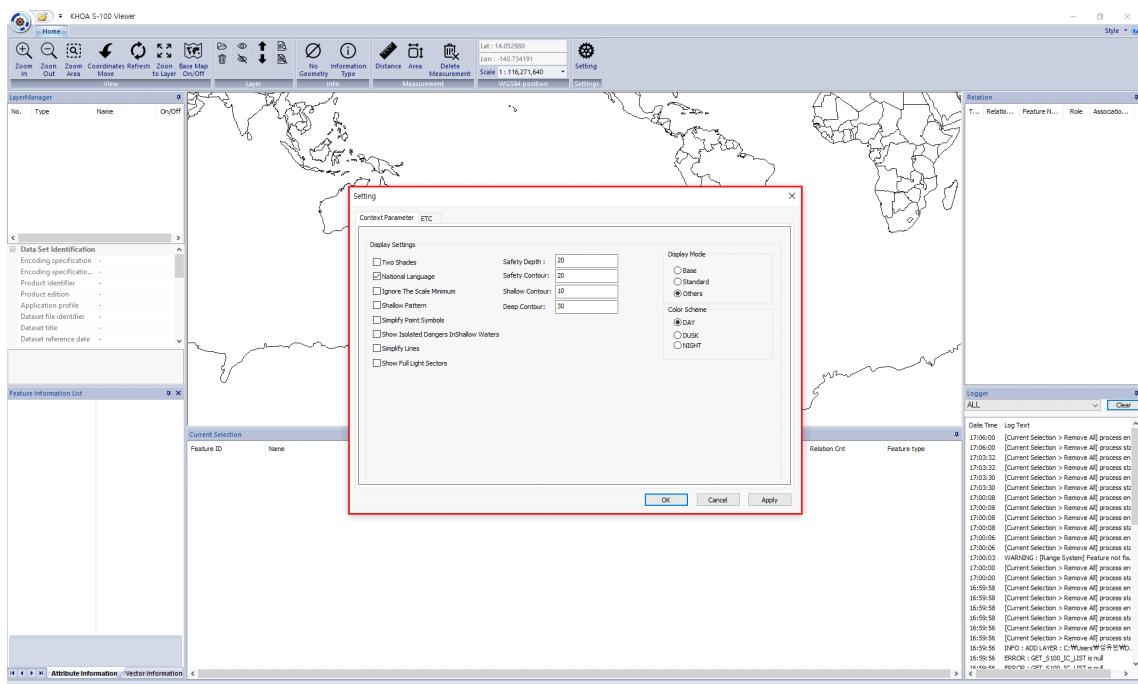


16) System settings

The [Setting] button allows the user to change the settings associated with ENC the layers displayed on the screen.

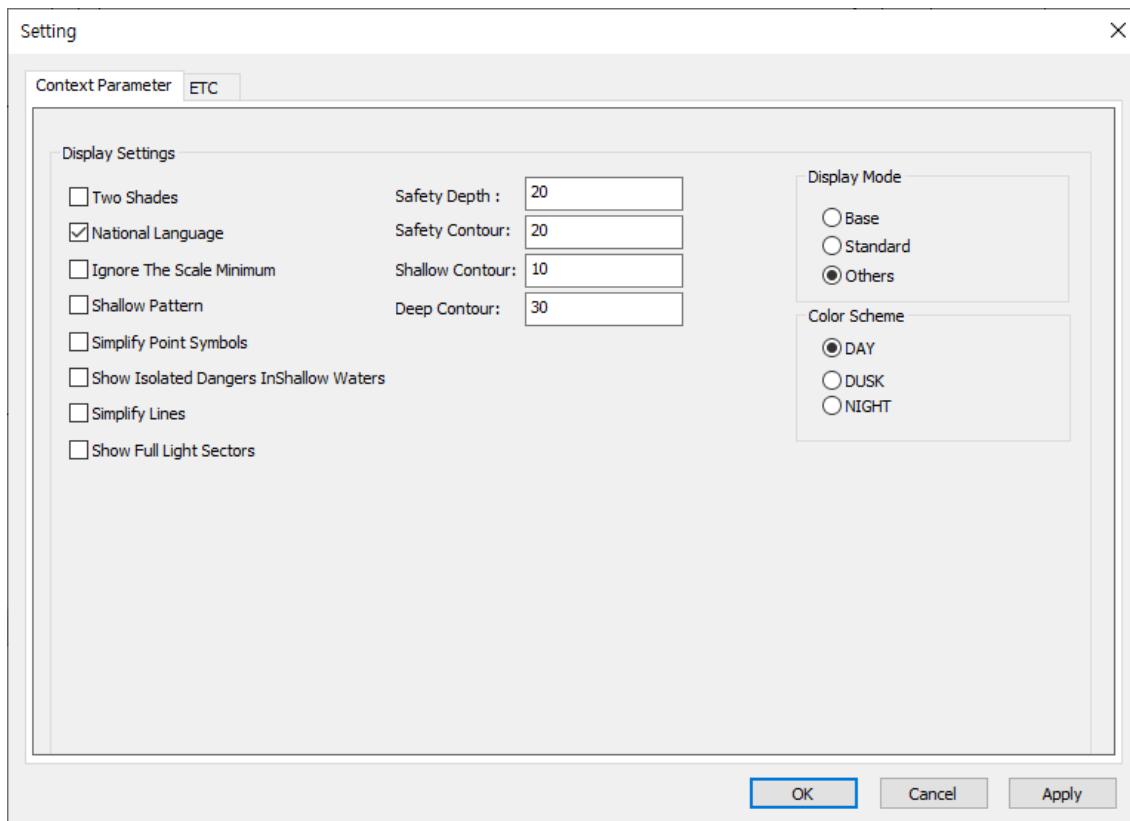


The [OK], [Apply] buttons allow you to apply the changed settings.



A) Context Parameter

You can modify the display information and color information of ENC.



B) ETC

You can set the units of Distance and the Auto selection function On/Off.

