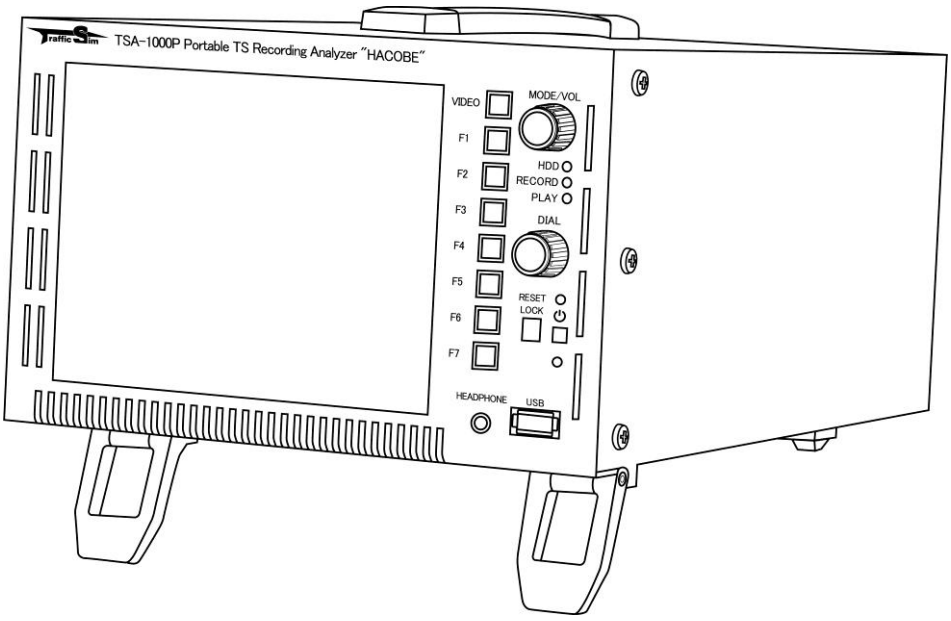
H A C O B E

GPS data Converter

User's Manual



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TrafficSim Co.,Ltd.

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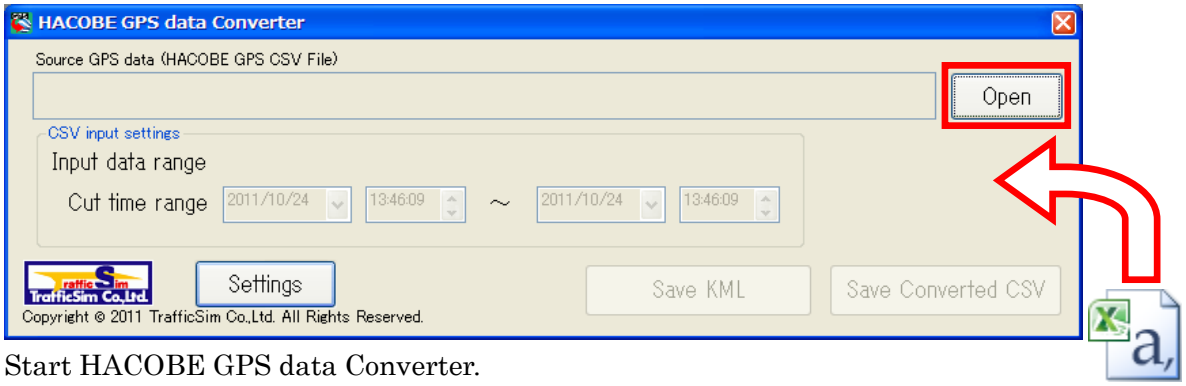
1. Introduction

This software is can convert into the file format (KML) of Google Earth the GPS data recorded by the GPS optional feature of Portable TS Recording Analyzer "HACOBE" of the product of TrafficSim Co.,Ltd.

Moreover, the reshape output of the GPS data can also be carried out at the CSV file of the appointed form.

2. How to use

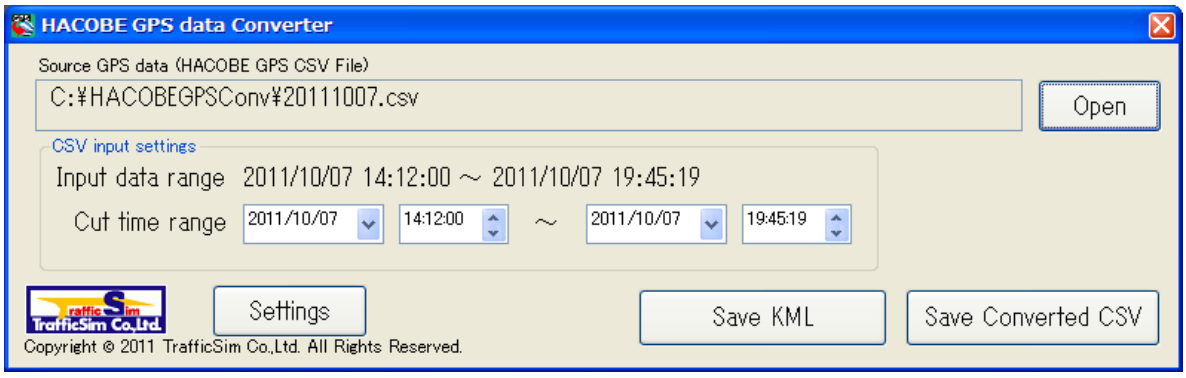
2.1. Open the GPS data



Start HACOBE GPS data Converter.

Click the Open button and select the GPS data from the csv file HACOBE, or drop the csv file into the application window.

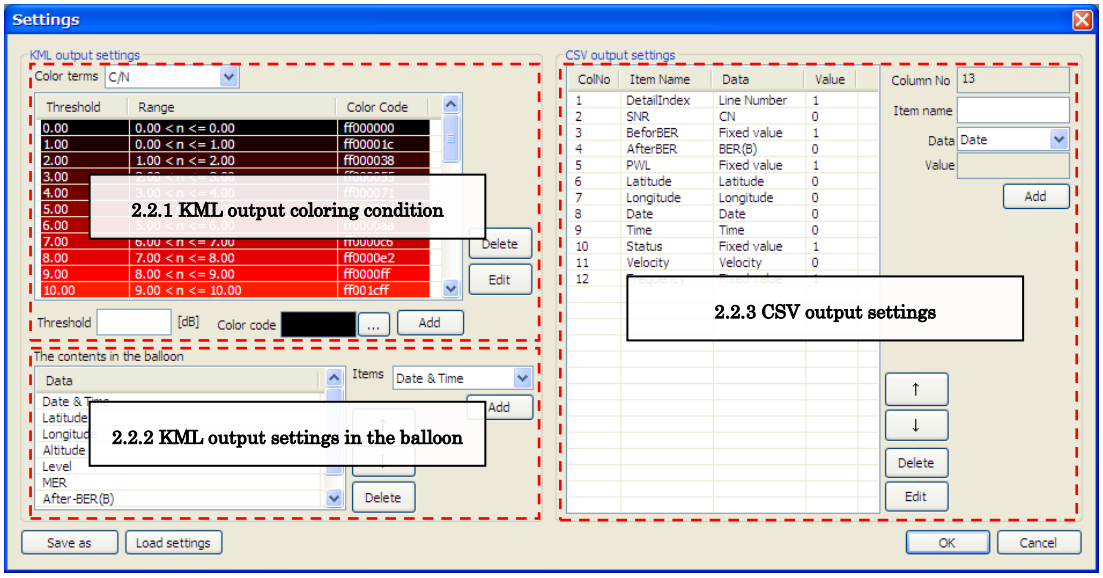
* Refer to attached sheet: How to record RF status with GPS data. for extraction of the GPS data from HACOBE.



Completion of taking in of data will display the start time and finish time of data.

2.2. Conversion setup

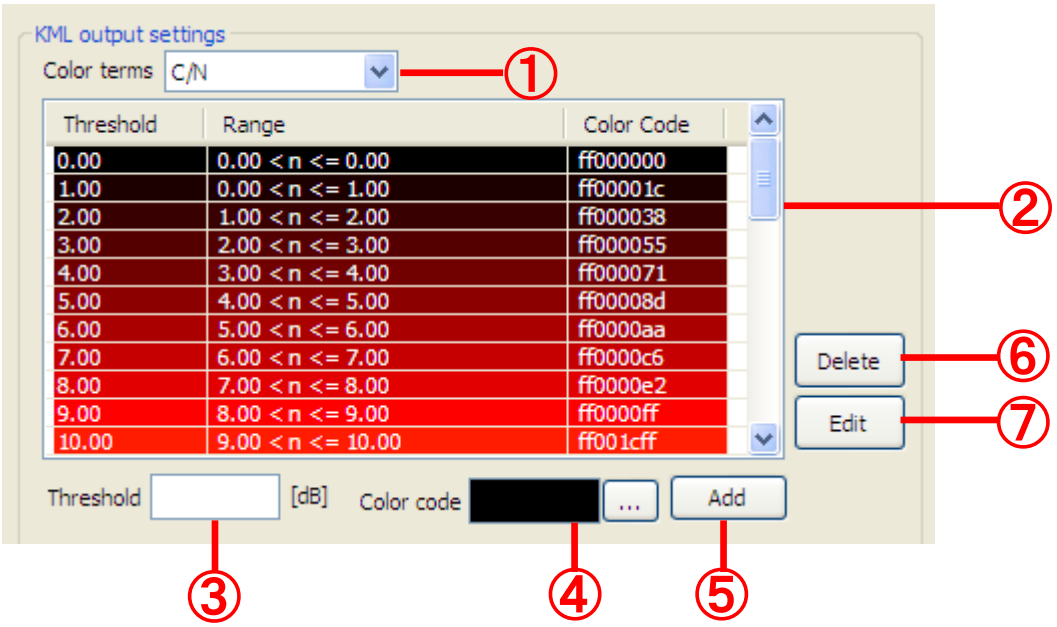
When the Settings button is pushed, the setting screen of the following figure will open.



In the KML file Level with BER or the C / N at the point that when viewing in Google Earth, can separate the color of the point.

Below is one colored by the value of C / N measurement results in Aichi Prefecture.

2.2.1. KML output coloring condition

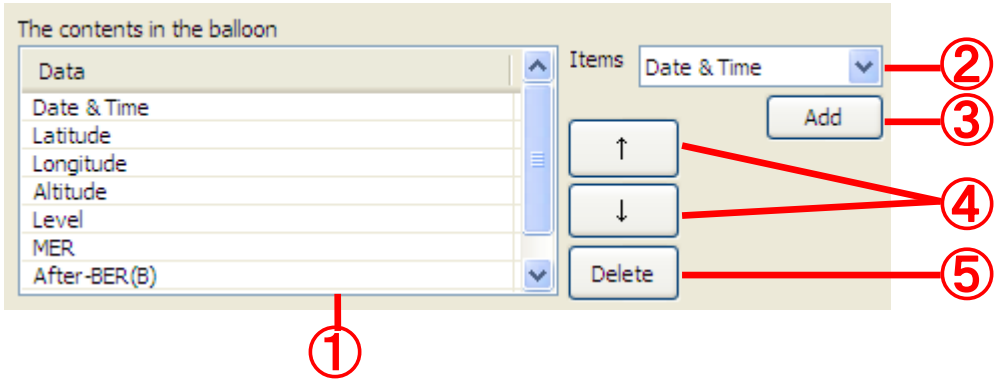


①	Color terms	Coloring condition setting C / N, Level, Velocity, After-BER (A), After-BER (B) to choose from.
②	Set value	Displays the color settings of currently set conditions. If the value of item selected by Color terms is in the Range of this item, Points are displayed on Google Earth in color Color code.
③	Threshold	Threshold setting Threshold for coloring condition. Range is entered automatically.
④	Color code	Set color code Press the [...], and the color selection dialog is displayed You can choose any color. The format of color code "**αα**BBGGRR".
⑤	Add	Add the criteria entered into ③ and ④.
⑥	Delete	Delete the criteria selected in ②.
⑦	Edit	Edit the criteria selected in ②.

2.2.2. In a field setting balloon KML output

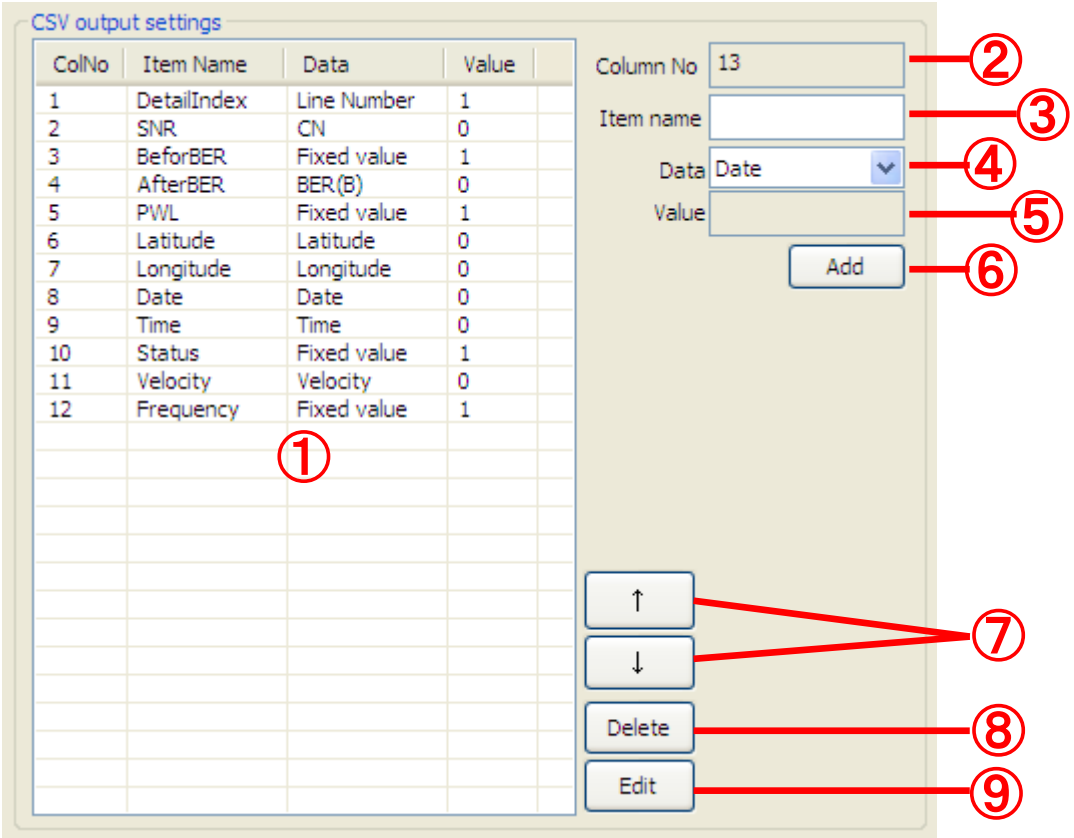
The KML file contains the information balloon that appears when you click a point. Looks like the figure below.

In this configuration, you can select the data to be displayed in the balloon.



①	Setting	Displays the current settings. Also appear in the order list.
②	Items	Select the data you want to add.
③	Add	Add ② to ①.
④	Move button	Move selected item up or down in the ①.
⑤	Delete	Deletes the selected item in ①.

2.2.3. Configuring the CSV output

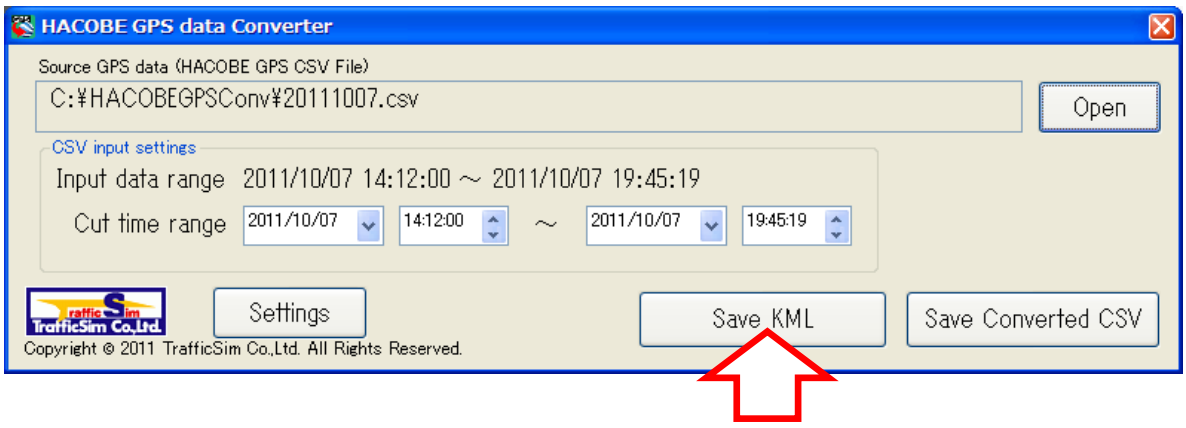


①	Setting	Displays the current settings.
②	Column No	Displays the column number being edited. You cannot enter.
③	Item name	Enter the field name into the first row of the CSV output.
④	Data	Select the data to be output.
⑤	Value	When you select the Fixed value or Line Number in ④. If Line Number is selected, the starting value of the input line number. If Fixed value is selected, this value is printed with no change.
⑥	Add	Add ②, ③, ④, and ⑤ to ①.
⑦	Move Button	Move selected item in the ① up or down.
⑧	Delete	Deletes the selected item in ①.
⑨	Edit	Edit the selected item in ①.

2.2.4. Save Settings

①	OK	Save the configuration.
②	Save as	Save the settings with a name.
③	Load settings	Configuration file is read.

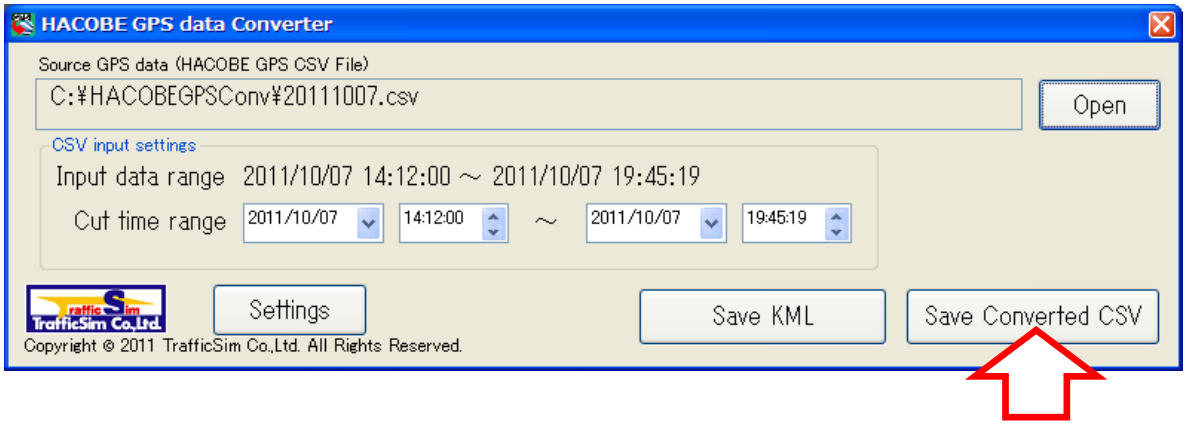
2.3. Convert KML



If GPS data is opened, the range of data will be displayed on Input data range.
The logging range of data is specified by Cut time range.
A KML file will be generated, if it clicks the Save KML button and a preservation place is specified.

If a file is generated, does it open by Google Earth? It solves and withers.
If it clicks "yes", Google Earth will start and will be displayed.

2.4. Convert CSV



If GPS data is opened, the range of data will be displayed on Input data range.
The logging range of data is specified by Cut time range.
If it clicks Save Converted CSV and a preservation place is specified, the CSV file orthopedically operated as the setup will be generated.

2.5. Command Line Mode

You can do the conversion from the command line.

Please run and pass the file path HACOBE GPS data.

You can specify the translation mode by specifying the following option character.

/k	Convert the KML file (optional) The output file name is the same as the input file.
/c	Convert a CSV file The output file name after the input file name "_conv" Shall be added.

Example

hoge.csv convert to KML

```
HACOBEGPSConv.exe hoge.csv
```

or

```
HACOBEGPSConv.exe /k hoge.csv
```

hoge.csv convert to CSV

```
HACOBEGPSConv.exe /c hoge.csv
```

hoge.csv convert to KML and CSV

```
HACOBEGPSConv.exe hoge.csv /c hoge.csv
```

or

```
HACOBEGPSConv.exe /k hoge.csv /c hoge.csv
```

3. Configuration File

KMLOUT Section … KML Output Settings

KEY	Meaning
IMAGE_PATH	Point of View Image File Path
DEFAULT_COLOR	Point out the color of color-coded ranges
TIMEZONE	Time zone information is used in KML conversion time. Example) In case of Japan TIMEZONE="+09:00" For Sao Paulo TIMEZONE="-03:00"
TERMS	Color condition ID (no change)

BALOON Section … Set on Balloon

・No need to change any settings from the GUI

KMLOUTRANGE_CN Section … Set the color range of C / N conditions KML output color

・No need to change any settings from the GUI

KMLOUTRANGE_LV Section …Level Set color range conditions KML output color

・No need to change any settings from the GUI

KMLOUTRANGE_VELOCITY Section …Velocity range of colors coloring condition setting KML output

・No need to change any settings from the GUI

KMLOUTRANGE_BERA Section …After the output color condition KML-BER (A) Setting range of colors

・No need to change any settings from the GUI

KMLOUTRANGE_BERB Section …After the output color condition KML-BER (B) Setting range of colors

・No need to change any settings from the GUI

CSVOUT Section … CSV output settings

・No need to change any settings from the GUI