METER STUDIO

Meter Graphics Development Support Software

- The meter panel operations are reproduced realistically, allowing the verification of visibility.
- The graphic layouts and colors are changeable as desired.
- The software is connectable to CAN※1 to reproduce the vehicle data. (option)

※1 : CAN(Controller Area Network) is a protocol standard used for transfer of vehicle data including vehicle speed, engine speed and failure diagnostic information.

FEATURES

Development support software for the next generation of interface design ※Meter Studio developer

- The Graphical User Interface (GUI) for a new meter can be verified before making the hardware.
- The forms, colors and layouts of frames, needles and icons can be designed easily.
- The 3D data (fbx format) designed by CAD is readable.
- Arbitrary sounds (mp3 format / wav format) can be created.
- An arbitrary additional text can be indicated on the meter panel.

Produced meter graphics are controllable from the external. ※Meter Studio viewer

- The meter graphics are controllable by the debug software through communication from the external.
- Communication control via LAN is available.
- Communication control by connecting CAN-USB (option)
- Communication control by connecting CAN-Bluetooth (option)

Meter Studio developer

Meter Studio viewer

Examples of Meter Graphics

- Various scenes of meter graphics including their visibility, states in the nighttime lighting mode, operational statuses are reproduced in a short time.

Graphic pattern A

Graphic pattern B

The colors of the meter rings and needles can be changed easily, being the most suitable for the comparative study of the patterns.

The needle rotation can be controlled based on the mobile ECU (engine control unit), allowing the verification of visibility before hardware completion.

The icon layout can be changed easily and the light ON, light OFF, blinking and synchronous blinking are controllable from the external.

Data Production

■ Simple work flow

Read 3D Data → Set Texture → Read Icon → Transfer to Viewer → Operation Control from External

■ The meter panel can be presented only by importing an arbitrary 3D objects (.fbx). The design data can be used, allowing the work to be done efficiently.
※2D objects (.png) are also importable.

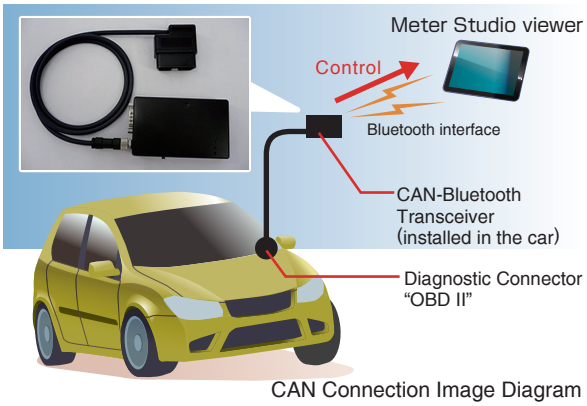
■ The speed meter can be initialized by selecting from 3 versions: Type-A (180km/h), Type-B (280km/h) and Type-C (mile mph).

■ An arbitrary text can be indicated on the text indication field above the meters by communication from the external.
The font, color and style of the text can also be changed as desired.

The Meter Studio can use 3D design data at maximum.

CAN-Bluetooth Transceiver (Option)

The mobile ECU information (On-Board Diagnostics (OBD) II information and all running CAN information) is acquired via CAN bus by the use of the OBD II connector fitted on the car and the information on arbitrary sensors fitted on the car or the driver by the user can also be acquired via CAN bus.In addition, the most up-to-date MEMS (microelectromechanical sensor) 6-axis sensors (3-axis acceleration sensor + 3-axis gyro sensor) are fitted in the system, allowing the vehicle motion information to be acquired.



CAN Connection Image Diagram

Components

Component	Quantity	Remarks
METER STUDIO	1 set	
Meter Studio developer	1	Development software
Meter Studio debugger	1	Program checking software
Meter Studio viewer	1	Reproduction software Applicable OS: Windows OS, Android OS

Operating Environment

Microsoft Windows
Hardware
CPU : Intel Core i7 or higher
RAM : 8GB or more

OS
Windows 7,Windows 8,Windows8.1

GPU
NVIDIA GEFORCE GTX 760 or higher

Display resolution
1920 × 1080 pixels or more recommended

※The performance specifications, system requirements and applicable OS as described above may be subject to any change.

For further information, contact:

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