

# MDAS-5 Installation Guidebook

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## **1 General**

MDAS installation requires wiring electric signals of vehicles. Please contact your local distributor or authorized installers to install. Movon will hold no liability of any damage occurred during installation proceeded by users, or unauthorized installers.

MDAS is developed to give only warnings to drivers. The final decision to maneuver or control shall be made by drivers themselves. Furthermore, MDAS is not capable to provide 100% detection rate of lane markings, vehicles, and MDAS recognition performance can be fluctuated due to road conditions, inclement weather, poor installation, etc. Please ensure that keep eyes forward while driving rather than only relying on MDAS.

## 2 Product

### 2.1 Specification

|                |  |   |
|----------------|--|---|
| CPU            | Cortex A7 Dual-Core  |   |
| Audio Out      | Speaker  |   |
| Camera         | Front  | 1920 x 1080 (FHD)                       |
|                | Rear   | 1280 x 720 (HD)                         |
| Power          | Input Range  | DC 10V ~ 36V                            |
|                | Power Consumption  | 400mA @ 12V Max<br>3mA @ 12V Idle State |
| Format         | Video  | AVI (h.264 codec : FHD / 27fps)         |
|                | Audio  | PCM                                     |
| Storage        | 4~32GB Micro SD card support   |   |
| Input / Output | OTG USB 2.0 Device Host ( for PC Calibration, supported accessory), USB A-type Port x 2 (For rear camera)<br>Analog Video Out, GPS port, Micro SD Card |   |
| Size           | Body   | 111 x 57 x 51 mm                        |
| Temperature    | Operation  | -20°C ~ 70°C ( -4°F ~158°F )            |
|                | Storage  | -40°C ~ 85°C ( -40°F ~185°F )           |

## 2.2 Product components

| Main unit   | Basic cable<br>(6P, 4P Cable)   | Micro SD card<br>(8GB)   | Technical cleaning<br>wipe  |
|---|---|--|---|
|  |  |  |  |

| Indicator<br>(Optional)   | Rear Camera<br>(Optional)   | Rear Camera USB<br>cable (5M standard)<br>(Optional)                                 | Video Out Cable<br>(Optional)   |
|---|---|--|---|
|   |    |    |    |
| Vibrator<br>(Optional)  | Micro 5PIN USB cable<br>(Optional for<br>installers)                                | Wi-Fi Dongle<br>(Optional for<br>installers)   | GPS<br>(Optional)   |
|  |  |  |  |
| OBD-II<br>(Optional for<br>installers)  |   |  |   |
|  |   |  |   |

## 2.3 Main Unit & Main Cable

### 2.3.1 Main Unit



| LED Status     |   |                               |                     |
|----------------|---|-------------------------------|---------------------|
|                |   |                               |                     |
| Illuminate     | Illuminate                              | Illuminate                    | Blink               |
| Booting        | Working Mode<br>Verify connect with GPS | Check status of Micro SD Card | Detect new firmware |
|                |   |                               |                     |
| Initialization | Calibration Mode                        |                               |                     |

### 2.3.2 Main Cable



### 2.4 Technical Cleaning Wipe

MDAS-5 provides Technical Cleaning Wipe for cleaning and removing dust, finger print on windshield.



### 2.5 Indicator (Optional)

Read user manual to see more description and functions.



TO indicator port of main unit

| Indicator Error Table   |                         |                           |
|-------------------------|-------------------------|---------------------------|
|                         |                         |                           |
| Camera Connection Error | CAN Communication Error | Low Visibility Indication |

## 2.6 Rear Camera (Optional)



In case of using the rear camera, connect the USB cable of the rear camera into the USB port on the back of MDAS-5.



\* Caution: When attaching the camera to the front, please adhere in the direction of adhesion, with the arrow visible above.

## 2.7 OBD-II Connector (Optional)

\* **ONLY** use when vehicle support speed and turn signals via CAN-BUS and OBD-II PIN is compatible



|    |    |    |    |    |    |    |   |
|----|----|----|----|----|----|----|---|
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1 |

6: CAN High (White) 4: Ground (Black)  
14: CAN Low (Green) 16: BAT (Red)

## 2.8 Vibrator (Optional)

\* NOTE: Need Vibrator gender cable to use this and need to enable in Calibration. Read details in Calibration



### DTG(Digital Tachograph) & GPIO Setup

- 1. Driving Log
  - 1-1. Save in video
  - 1-2. Save as files
- 2. Transmit data via RS-232
- 3. GPIO 12V output
  - 3-1. Lane departure warning
  - 3-2. Forward collision warning
- 4. TV out
- 5. Break Time Alarm

### 2.9 GPS (Optional)

\* Important, in case of use GPS for speed signal, warning timing can be inaccurate while decelerating circumstances.



### 2.10 Video Out Cable (Optional)

Transmit analog video to another device using RCA connector.



### 2.11 Micro SD Card (Expandable)

\* Micro SD card is expandable, only first 3 months are guaranteed. It is recommended to format micro SD card regularly and replace it when it cannot be recognized in MDAS. **\*\*** Micro SD card speed shall be above **Class 10** and it is recommended to use **MLC type**.



### 2.12 Wi-Fi Dongle (Optional for installers)

Use for Calibration procedures for **Android Phones**.

Application app can be downloaded in [www.mdas.co.kr](http://www.mdas.co.kr)



### 2.13 Micro 5 PIN USB Cable (Optional for installers)

\* NOTE: You can use a common USB cable that supports data transmission.

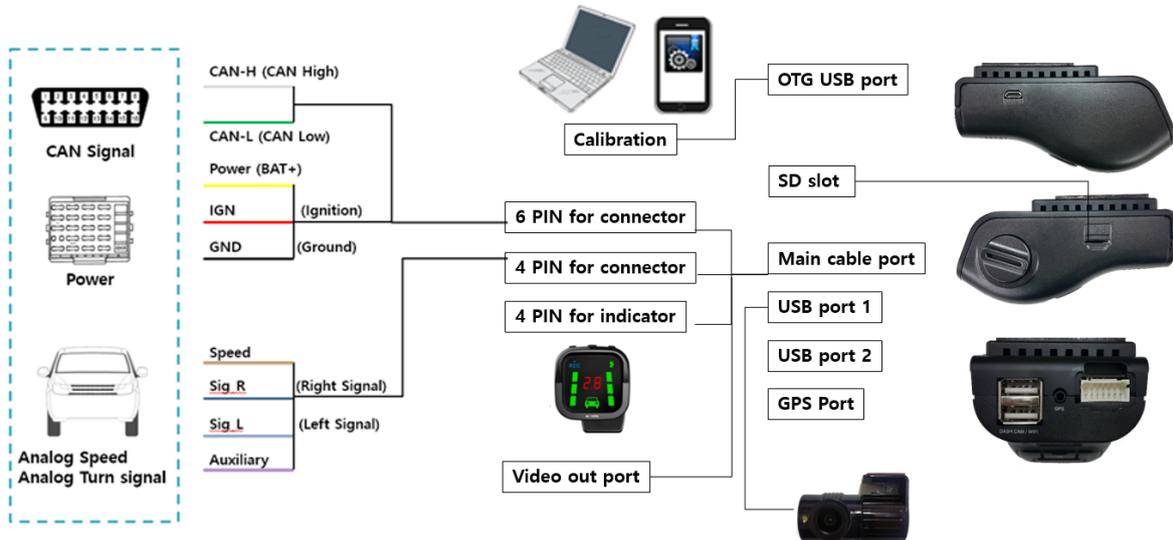
Use for Calibration procedures for **Windows OS** computers.

Before use, please install RNDIS driver (see Chapter 4.1.)



### 3 Installation

#### 3.1 System Connection Scheme



#### 3.2 Installation Procedure

- ① Check which types of signals the vehicle provides (CAN/Analog)
- ② Connect vehicle signals (See Chapter 3.3 Wiring Combination)
- ③ Attach MDAS-5 (and indicator if needed) to the vehicle
- ④ Connect cables with MDAS-5
- ⑤ Access MDAS-5 using Micro 5pin USB cable or Wi-Fi dongle
- ⑥ Calibration (See Chapter 4. Calibration procedure)
- ⑦ Test drive

#### 3.3 Wiring Combination and Description

##### 3.3.1 6Pin Power Cable



| Color  | Label | Connection Description   |   |
|--------|-------|--|---|
| White  | CAN H | To CAN High wire   | Support CAN J1939 standard,<br>CAN 2.0 (Support Version A, B) |
| Green  | CAN L | To CAN Low wire  |   |
| Yellow | POWER | To constant power wire   | Support 12~24 V (MAX 36V)                                     |
| Red    | ACC   | To ignition (Accessory) power wire that turns off when key is at OFF   |   |
| Black  | GND   | To ground source, please ensure that is connected properly to ground, or it could damage the vehicle and MDAS. |   |

### 3.3.2 4Pin Signal Cable



| Color        | Label     | Connection Description   |
|--------------|-----------|--|
| Blue         | Sig R     | To analog right turn signal  |
| Blue/White   | Sig L     | To analog left turn signal   |
| Brown/White  | Speed     | To analog speed signal, be careful about old vehicles that do not have speed sensor,   |
| Purple/White | Auxiliary | Auxiliary wire sends out power, this can be used to activate Vibrator module (Optional) and if need to use, it has to be enabled in Calibration. |

### 3.3.3 Wiring Combination

\* NOTE: See cable description below the combination table.

\* NOTE: You can check Vehicle Database to check CAN-BUS availability, please visit <http://info.mdas.co.kr> and check information before installation.

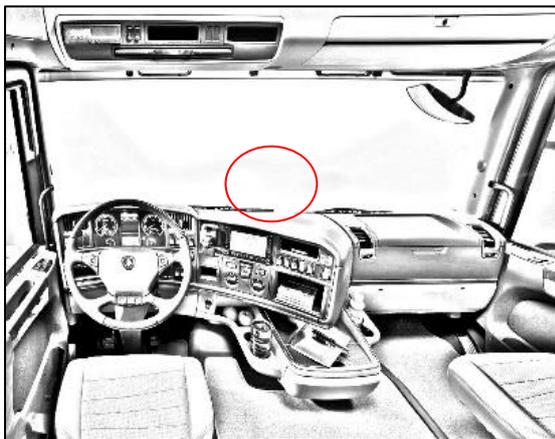
| No. | Speed   | Turn signal | Recommended connection   |
|-----|---------|-------------|--|
| 1   | CAN-BUS | CAN-BUS     | 6PIN Power Cable<br><br>can connect to Power, Ignition, ground, CAN High, CAN Low  |
|     |         |             | Or OBD-II Adapter<br><br>Can connect to OBD-II connector, check compatibility before use. You do not need 6Pin power cable nor 4Pin signal cables, MDAS-5 will receive power from OBD-II and turn off and on by check CAN-BUS activities |
| 2   | CAN-BUS | Analog      | 6PIN Power Cable + 4PIN Analog Cable<br><br>Use 6 Pin for power, and 4Pin for analog turn signals.   |
| 3   | Analog  | Analog      | 6PIN Power Cable + 4PIN Analog Cable<br><br>Use 6 Pin for power, and 4Pin for analog speed signal and turn signals.  |
| 4   | GPS     | Analog      | 6PIN Power Cable + 4PIN Analog Cable + GPS   |

### 3.4 Attach MDAS-5

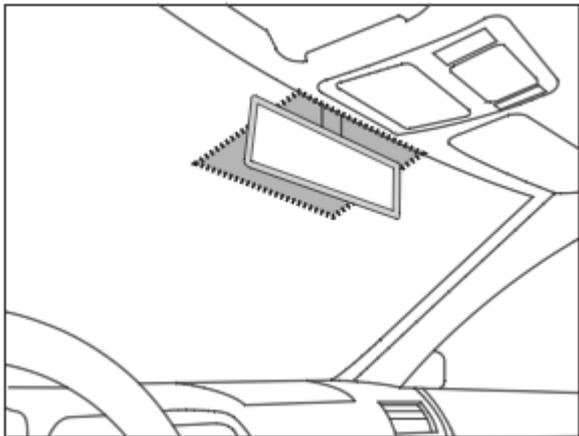
Before attaching MDAS-5, clean and remove dust, finger from on the desired installation area by technical cleaning wipe and mark the center of windshield.

It is very important to attach MDAS-5 at the center for the best performance. However, due to interior or space, if MDAS-5 cannot be attached at the center, attach MDAS-5 as close as to the center. You can adjust the difference in Chapter 4 Calibration.

\*NOTE: MDAS-5 should not be attached more than 10 cm (4 inches) apart from the center.



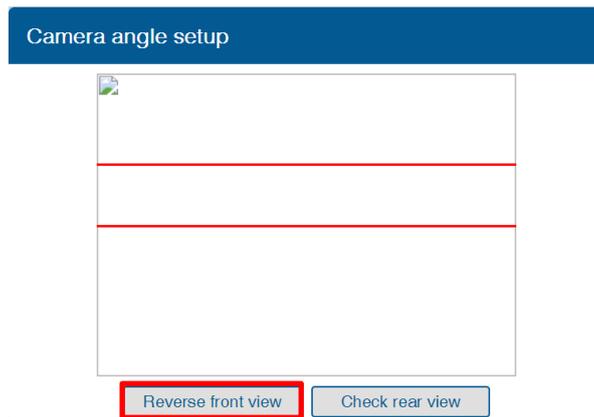
For trucks/buses



For passenger cars

In case of attaching to a heavy-duty truck, please rotate 180 degrees and attach it. In this case, please press the Reverse front view button of the calibration as below.





### 3.5 Parts connection

#### 3.5.1 Indicator

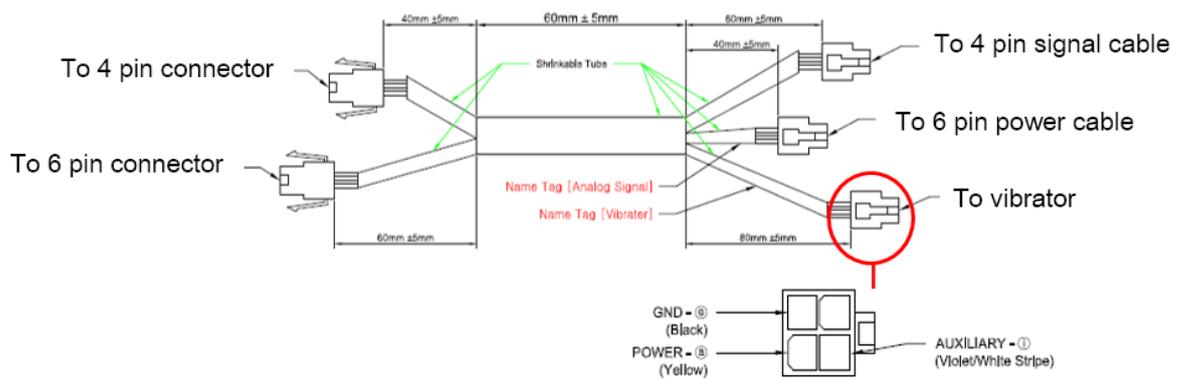
\* Please connect to 4Pin connector labelled "Indicator" it could damage indicator if you plug into 4Pin Signal connector.



#### 3.5.2 Vibrator

4 Pin split gender cable is required to connector Vibrator.





### 3.5.3 Video-Out Cable

Use Movon provided RCA cable and plug into Video out port.  
 This function does not provide other UI or graphics through via video-out.



### 3.5.4 Rear Camera

When connecting the rear camera, please use No. 1 of the USB port.



## 4 PC and Android Phone Calibration

### 4.1 Driver Setup (ONLY SUPPORTS WINDOWS OS)

\* NOTE: Before you connect or start calibration, please install RNDIS driver first.

\* For more details, see Chapter 6.

### 4.2 Calibration Setup

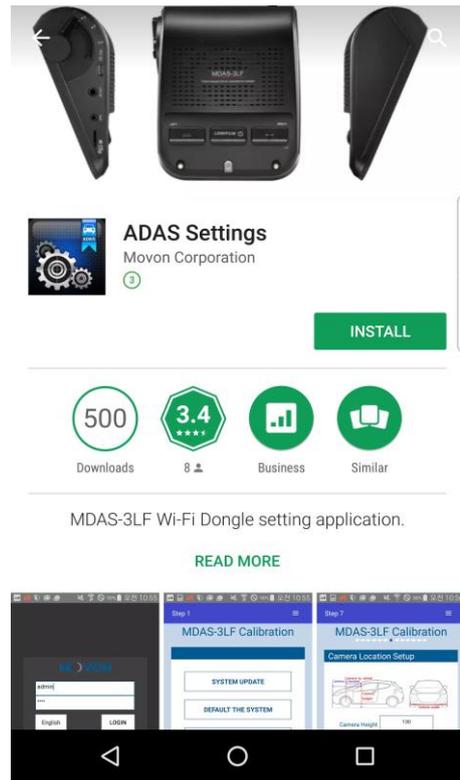
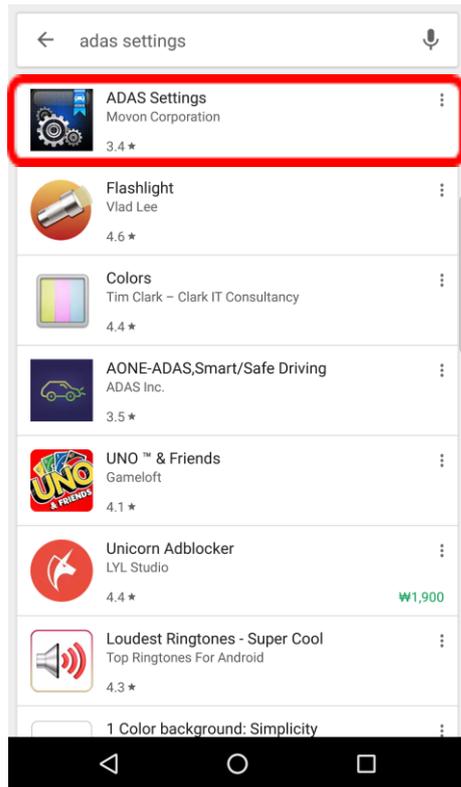
#### 4.2.1 Access MDAS-5 Calibration page via PC

- ① Connect MDAS-5 to PC using Micro USB cable with 5 pins.
- ② Start the engine.  
If you hear repeating beep sound, this means MDAS-5 is properly connected to computer.
- ③ Type 10.0.0.1 in an internet web browser to access MDAS-5 calibration page.  
(Chrome, Above Explorer 9, Firefox, and Safari are recommended)
- ④ You will see log in page below.  
Please enter your ID and password, and select language you want.



#### 4.2.2 Access MDAS-5 Calibration page via Android Phone

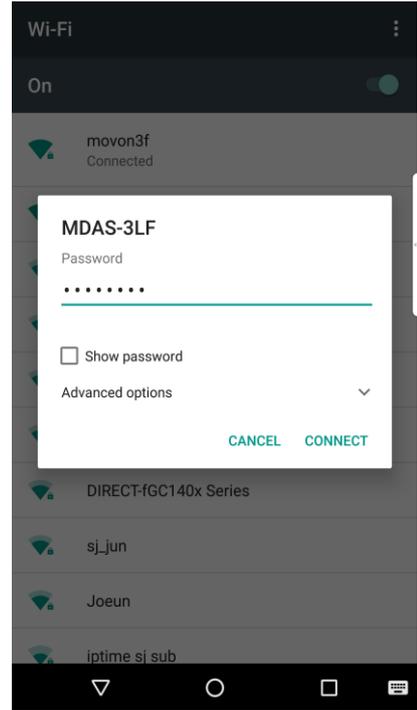
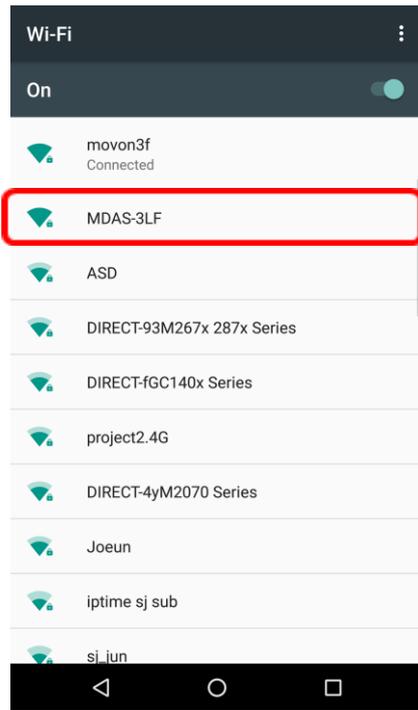
- ① Search and install the application “ADAS Settings” in Google Play Store.  
(MDAS supports only Google Android)



② Connect Wi-Fi Dongle to USB port on MDAS-5.



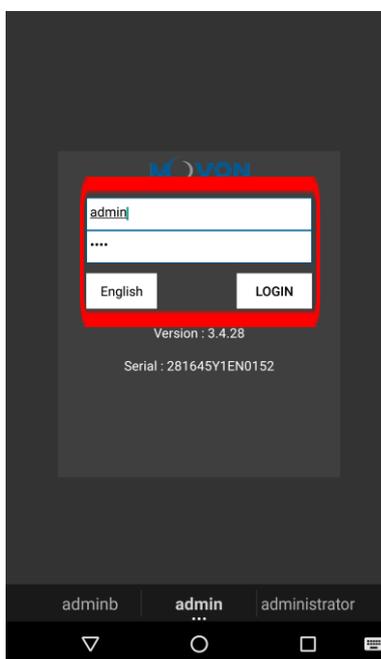
③ Find and connect to “MDAS-5” on your Wi-Fi setting page.  
(Password: 12345678)



- ④ Return to the ADAS Settings app.  
Select “MDAS-5” and click the “NEXT” button.



- ⑤ On the Log-in Page below,  
Please enter your ID and Password, then select language you want.



- ⑥ If you can see the MDAS-5 Calibration page below, you are ready for the Calibration procedure now.

#### 4.2.3 Select Vehicle Signal Types

##### 4.2.3.1 Vehicle Data File (CAN-BUS)

In case of using CAN Data, you have to choose “Vehicle Info File” tab.  
MDAS-5 only recognizes encrypted CAN data on our Database site;  
<http://info.mdas.co.kr>  
(For further information, check Chapter 5. How to Download CAN data)

\* NOTE: MDAS-5 only reads a file named “mdasinfo.dat”.

If you have downloaded multiple files and they are named like  
“mdasinfo(1).dat” or “mdasinfo(2).dat”, they cannot be recognized in  
MDAS-5.

Upload vehicle data file

| Vehicle data file  | Analog (GPIO) | GPS |
|--|---------------|-----|
| <p>파일 선택    선택된 파일 없음</p> <p>Please click the right arrow button to proceed to next step</p> |               |     |

#### 4.2.3.2 Analog (GPIO)

In case of using Analog signals for all vehicle data, you do not need to download Vehicle Data file.

Just click the Analog (GPIO) tab. Enter speed correction value and RPM correction value. Change polarity for turn signals and brake signal based on the vehicle.

Upload vehicle data file

| Vehicle data file  | Analog (GPIO) | GPS |
|--|---------------|-----|
| <p>Speed correction    5000</p> <p>Right turn signal    +    ▼</p> <p>Left turn signal    +    ▼</p> |               |     |

#### 4.2.3.3 GPS

In case of receiving speed and turn signal information from GPS, click GPS tab. Change polarity for turn signals and brake signal. Enter RPM correction value.

Upload vehicle data file

| Vehicle data file  | Analog (GPIO) | GPS |
|--|---------------|-----|
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">Right turn signal</div> <div style="border: 1px solid #ccc; padding: 2px 10px;">+ ▼</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">Left turn signal</div> <div style="border: 1px solid #ccc; padding: 2px 10px;">+ ▼</div> </div> |               |     |

#### 4.2.4 Vehicle Information Check

In this page, you can check whether MDAS-5 is receiving vehicle data properly.

##### 4.2.4.1 Verify Speed Signal

Start the engine and drive slowly in a safe place to see whether speed is corresponding with the vehicle's speed gauge. If it is not, you can simply adjust it.

Drive and maintain the speed around 40km/h (24mi/h). Click the first "Correction" button on the right. Then MDAS-5 will set a new speed.

Vehicle information file check

Speed

Turn signal

\* Speed correction:  
For accurate speed measurement, please press the "Speed Correction" button while driving at 40km/h (25mi/h)

Speed correction

\* Turn signal correction:  
If the arrow icon is on when the vehicle's turn signal is off and vice versa, please press the button below for each signal.

Left turn signal correction

Right turn signal correction

##### 4.2.4.2 Verify Turn Signal

The arrow icon will be ON, only if you are using turn signal for left or right direction respectively. If the arrow icon is always ON, click the second or the third "Correction" button to change signal polarity.

Make sure that the arrow icon is ON only when you are using turn signals.

#### 4.2.5 Camera Angle

Adjust the camera angle knob to locate the horizon between the red guide lines.

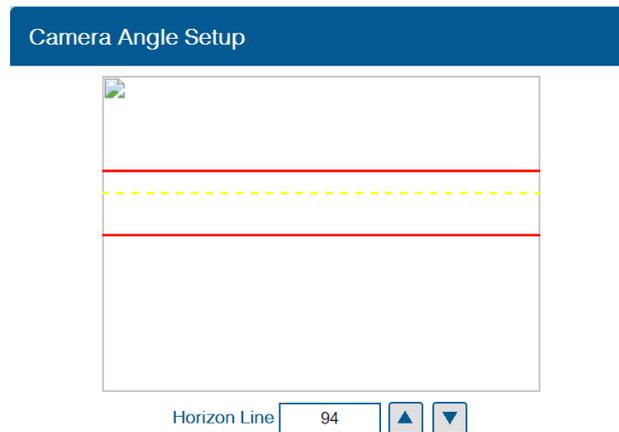


In case of indoor installation or somewhere you cannot see the horizon properly, use same data to "**Camera Height**". Mark the same height on the wall apart about 3 ~ 5 meters from the vehicle.



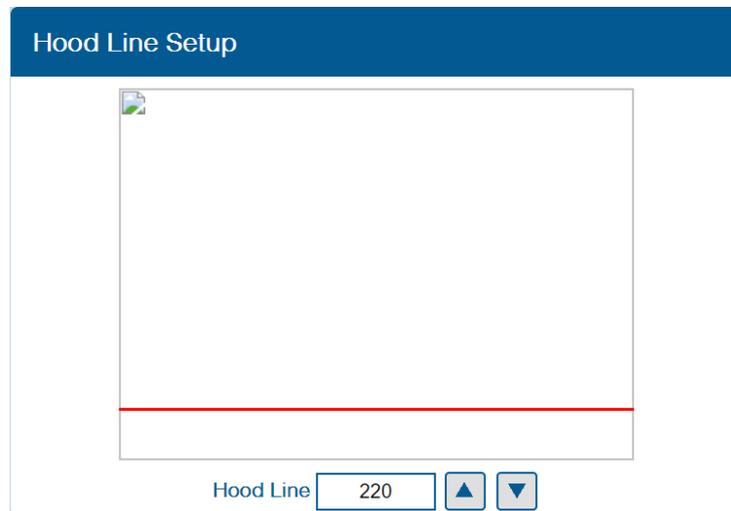
##### 4.2.5.1 Fine Camera Angle

For better accuracy of ADAS, locate the yellow dotted line in the horizon as close as possible.



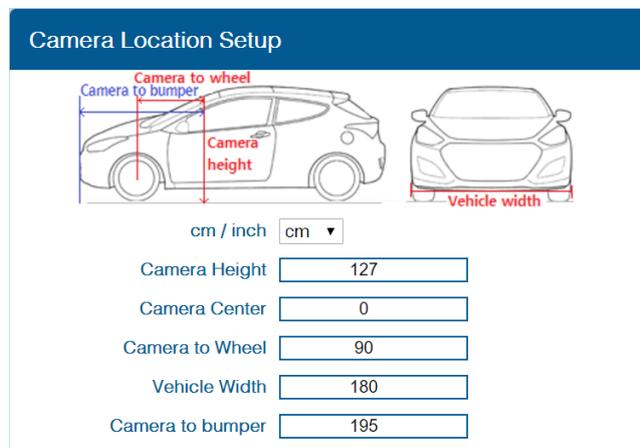
#### 4.2.6 Hood Line

Locate the red line at the end of the vehicle's hood line to remove the useless area.



#### 4.2.7 Camera Location and Vehicle Measurement

Camera location and vehicle measurement can affect MDAS-5's performance. It is very important put accurate data for the best performance.

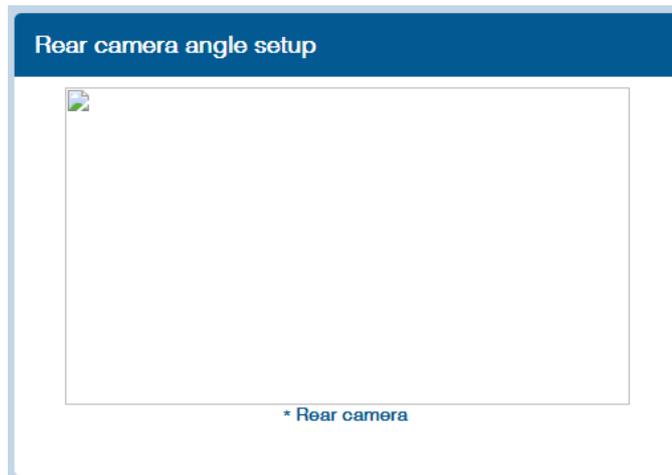


|                 |  |
|-----------------|--|
| Camera Height   | Distance from ground to the center of camera lens.   |
| Camera Center   | Distance from the center of windshield to camera lens<br>“-”: Left Side / “+”:Right Side<br>(If MDAS-5 is attached 5cm to the right from the center, input 5.<br>If MDAS-5 is attached 5cm to the left from the center, input -5.) |
| Camera to Wheel | Distance from the camera to the center of the wheel.<br><b><u>For trucks or buses, some vehicles' wheels are located behind.</u></b><br><b><u>In this case, please input 20cm.</u></b>   |

|                  |  |
|------------------|--|
| Vehicle Width    | Distance between the wheels.<br>Measure distance from left outside boarder to right outside boarder of the wheels. |
| Camera to bumper | Distance from the camera lens to the end of the bumper.  |

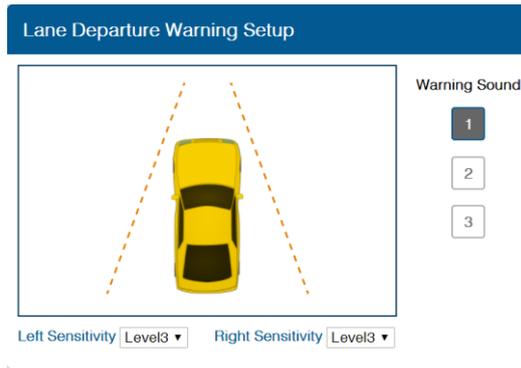
#### 4.2.8 Rear Camera Setup

For better angle of Rear Camera (DVR), adjust the camera module by rotating it.



#### 4.2.9 Lane Departure Warning (LDW) Sensitivity

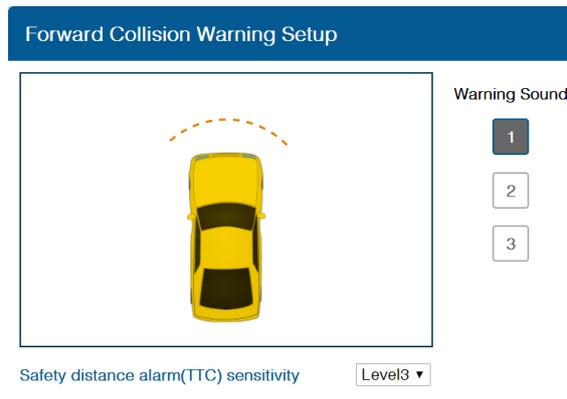
You can adjust the LDW Sensitivity for your convenience.



- ① Set the sensitivity of LDW warning on a scale of 1 to 5.  
As the level gets higher, you will hear the warning sound earlier.
- ② Warning sound: Select preferred warning sound for LDW.

#### 4.2.10 Forward Collision Warning (FCW) Sensitivity

You can adjust the FCW Sensitivity for your convenience.



- ① Set the sensitivity of Safety distance alarm(TTC) warning on a scale of 1 to 5.  
As the level gets higher, you will hear the warning sound earlier.
- ② Warning sound: Select preferred warning sound for LDW.

#### 4.2.11 LDW/FCW Advanced setup

### LDW/FCW Advanced setup

- |                                     |              |
|-------------------------------------|--------------|
| 1. Repeating FCW alarm              | Only Alert ▼ |
| 2. Forward proximity warning        | On ▼         |
| 2-1. Warning range within           | Level3 ▼     |
| 3. Forward vehicle start alarm      | On ▼         |
| 4. TTC(safety distance) alarm sound | On ▼         |
| 5. Continuous SDA Alarm             | Off ▼        |
| 6. SDA re-alarm to the same car     | Off ▼        |
| 7. Repeating LDW alarm              | Only Alert ▼ |

- ① Set the Repeating FCW alarm. (Only Alert / Always)
- ② Enable Forward proximity warning function (On / Off) and
- ③ Set the warning range on a scale of 1 to 3.
- ④ Enable Forward vehicle start alarm. (On / Off)
- ⑤ Enable TTC(safety distance) alarm sound. (On / Off)
- ⑥ Enable Continuous SDA Alarm (On / Off)
- ⑦ Enable SDA re-alarm to the same car (On / Off)
- ⑧ Set the Repeating LDW alarm. (Only Alert / Always)

#### 4.2.12 DVR(Dashcam) Setup

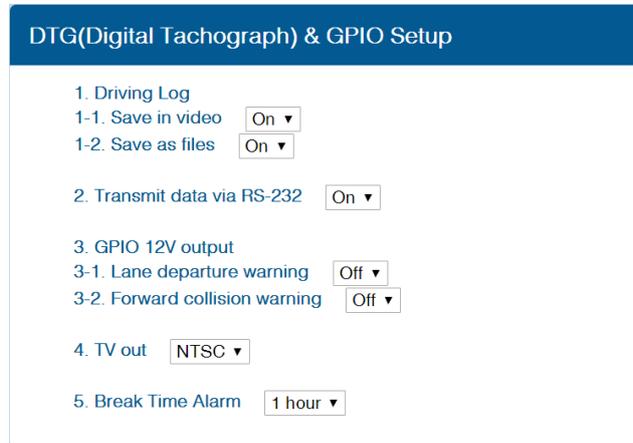
### DVR(Dashcam) Setup

1. Time  
Asia/Seoul ▼  
Jun ▼ 29 ▼ 2017 ▼ 15 ▼ : 43 ▼
2. Gravity Sensor Sensitivity Level3 ▼
3. Voice Recording Off ▼
4. Speed unit km/h ▼
5. Do Not Change Sound Level Off ▼

- ① Time: Set the date and time.
- ② Set Gravity sensory sensitivity on a scale of 1 to 5.  
It is for event recording.
- ③ Enable Voice recording function (On / Off).
- ④ Set Speed Unit (km/h or MPH).

- ⑤ Enable Do Not Change Sound Level (On / Off).

#### 4.2.13 DTG(Digital Tachograph) & GPIO Setup



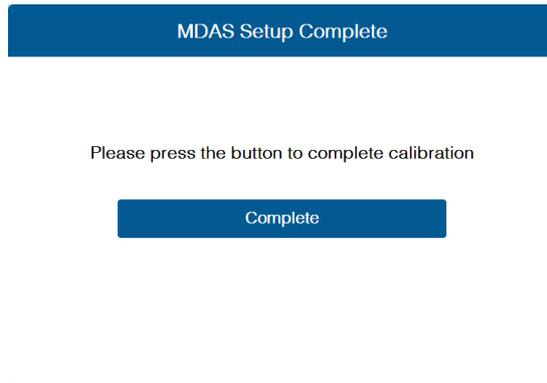
DTG(Digital Tachograph) & GPIO Setup

- 1. Driving Log
  - 1-1. Save in video
  - 1-2. Save as files
- 2. Transmit data via RS-232
- 3. GPIO 12V output
  - 3-1. Lane departure warning
  - 3-2. Forward collision warning
- 4. TV out
- 5. Break Time Alarm

- ① Driving Log
  - 1-1 Enable Save in video (On / Off).
  - 1-2 Enable Save as files (On/ Off).
- ② Enable Transmit data via RS-232 (On / Off).
- ③ GPIO 12V output
  - Send out voltage for LDW/FCW event. (Voltage is up to the power source of 6PIN power cable)
  - \*\* If use of vibrator, you have to make it ON in GPIO output option.
  - 3-1 Enable sending out voltage for Lane departure warning (On / Off).
  - 3-2 Enable sending out voltage for Forward collision warning (On / Off).
- ④ Set TV out (NTSC / PAL)
- ⑤ Set Break Time Alarm on a scale of 1 to 6 hours and Off.

#### 4.2.14 MDAS Setup Complete

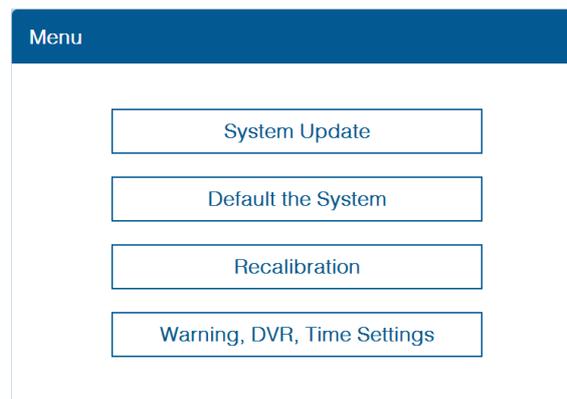
After this step, click complete then Calibration setup is finished and MDAS-5 reboots.



### 4.3 Setting Modification

Once MDAS-5 is calibrated, when you access to MDAS-5, you will see different menu.

#### 4.3.1 Menu Description



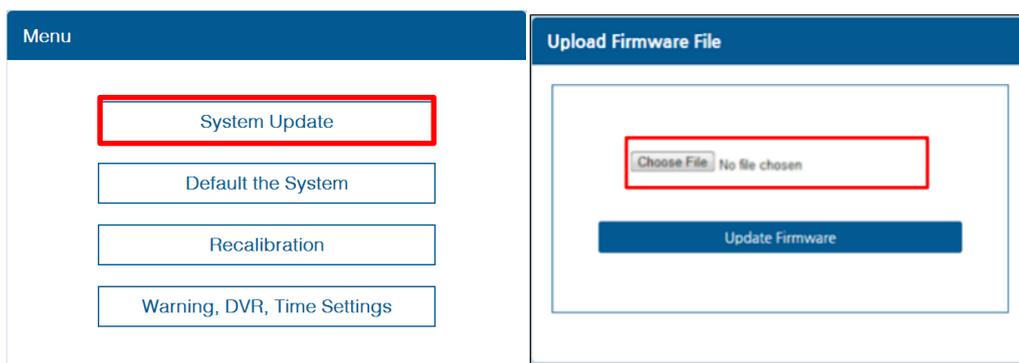
- System Update: The latest firmware published in the website ([www.mdas.co.kr](http://www.mdas.co.kr)) can be updated here.
- Default the System: It can be cleared and reset to the installation default.
- Recalibration: Change current settings from “Vehicle information file check”
- Warning, DVR, Time Settings: Change current settings from “Lane Departure Warning”

#### 4.3.2 Update Firmware

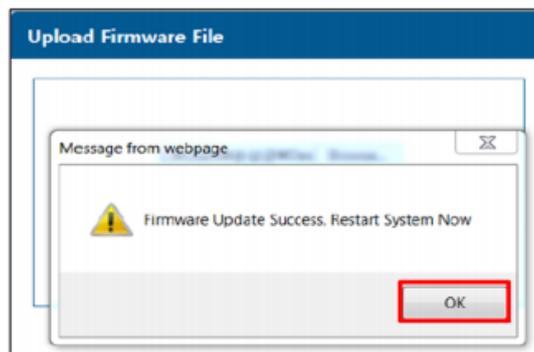
- ① Go to <http://www.mdas.co.kr/eng/> and download the latest firmware



- ② Select “System Update” menu to upload the latest firmware.  
After uploading the file, click “Update Firmware” button below.



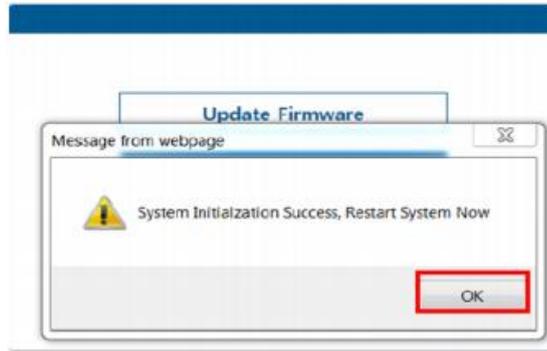
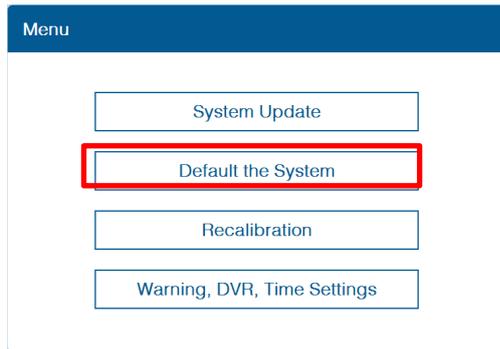
- ③ After updating firmware, you can see a pop up message below.



**\*NOTE: Do not touch or change anything whiling updating, Unless MDAS-5 might lose its data and stop working.**

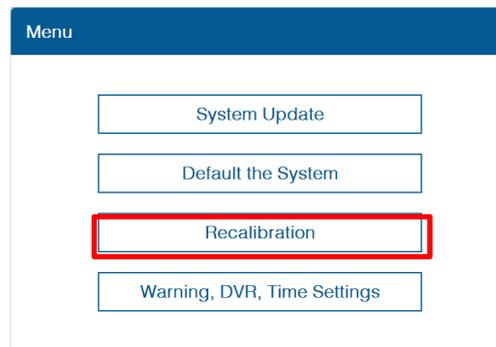
#### 4.3.3 Default MDAS Settings

If you want to remove all data and return to a factory setting, click the “Default System” menu and wait until you see a message.



#### 4.3.4 Recalibration

If you click this menu, you will restart from 4.2.4.1 Vehicle Information File Check.

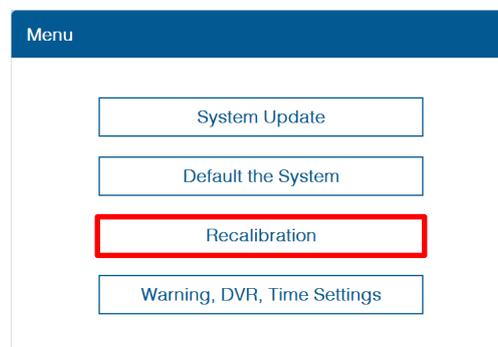


#### 4.3.5 Warning, DVR, Time

If you click this menu, you will restart from 4.2.9 Lane Departure Warning (LDW) Sensitivity

If you only want to change settings about Warning sensitivity, DVR, Time Settings, please press this.

It will start from Lane departure warning sensitivity menu.



## 5 How to Download CAN Data

### 5.1 Register in Vehicle Database

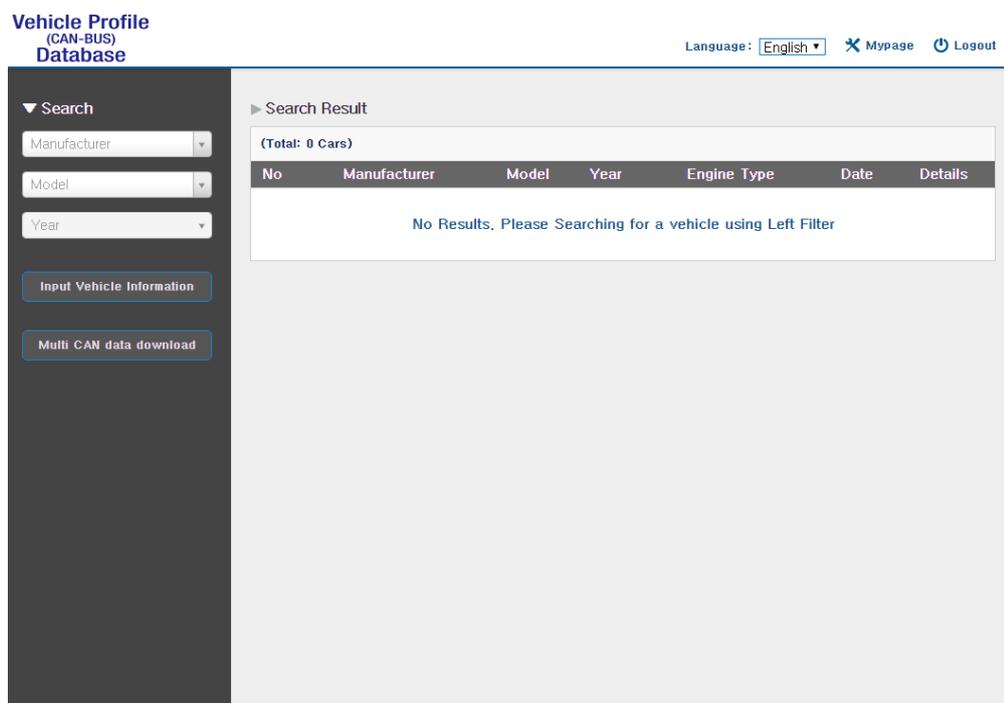
Open a web browser and enter <http://info.mdas.co.kr/>



You need to register and get an approval to log in. Please contact Movon Corp. or your local distributor for the approval.

### 5.2 Download CAN Data file

Once you log in, you will see Vehicle profile database page.



Select Manufacturer, Model name and manufactured Year for the vehicle you need. You will see results on the right side of the page.

**Vehicle Profile (CAN-BUS) Database** Language: English Mypage Logout

▼ Search

IVECO x

Stralis x

2016 x

Input Vehicle Information

Multi CAN data download

► Search Result

(Total: 1 Cars)

| No | Manufacturer | Model   | Year | Engine Type | Date                | Details   |
|----|--------------|---------|------|-------------|---------------------|---|
| 1  | IVECO        | Stralis | 2016 | Diesel      | 2016-12-01 14:04:37 |   |

Then click “” icon to see and download the vehicle information.

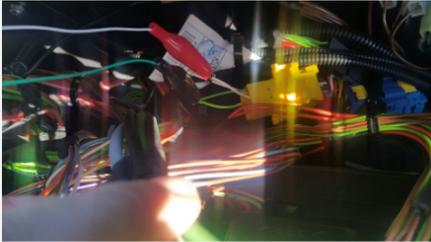
Vehicle Profile

D: Stralis (IVECO)

Year: 2014 2015 2016

| Speed | Direction Light | RPM    | Break  | HighBeam |
|-------|-----------------|--------|--------|----------|
| CAN   | CAN             | Analog | Analog | Analog   |

■ CAN: fuse box Connector



Installed in Korea, Yellow connector. Behind of the fuse box in passenger side.

[CAN File Download](#) [PDF Download](#) [Close](#)

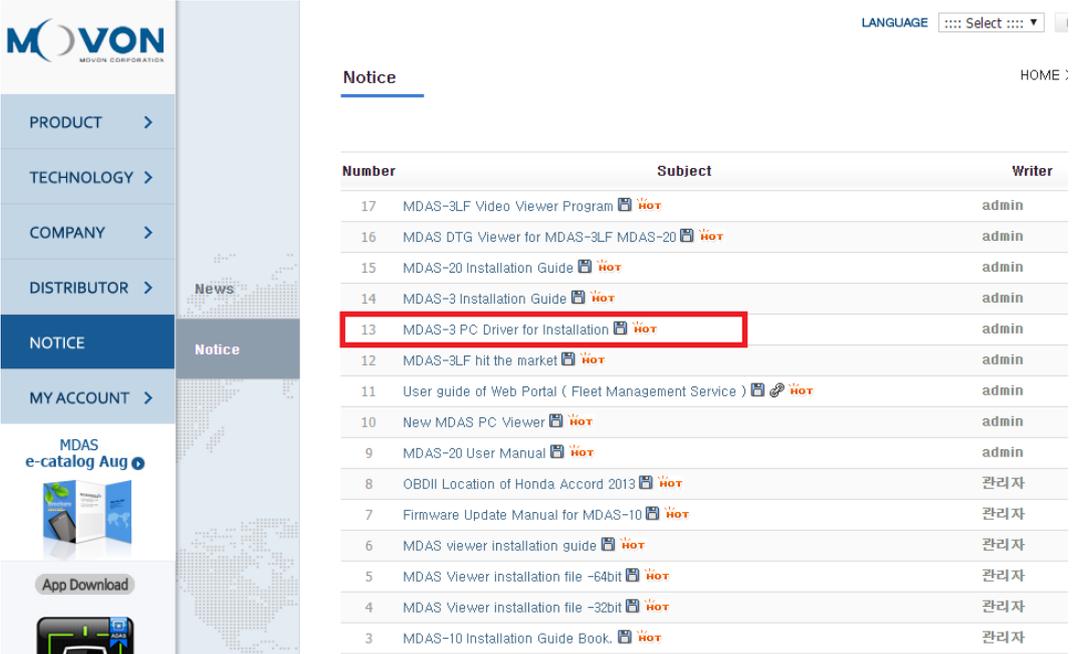
Click “CAN File Download” button, then it will be downloaded as “mdasinfo.dat”.  
If you want to download photos and signal data, click “PDF download” button. They will be downloaded as a PDF file.

## 6 Recognize MDAS-5 in computer

\* Please connect MDAS-5 to your laptop using Micro 5Pin USB cable before install the driver. \*

### 6.1 Computer with Windows XP, 7, 8, 8.1

Visit <http://www.mdas.co.kr> and click “Notice” tab.



MOVON  
MOVON CORPORATION

PRODUCT >  
TECHNOLOGY >  
COMPANY >  
DISTRIBUTOR >  
NOTICE  
MY ACCOUNT >

MDAS e-catalog Aug  
App Download

LANGUAGE :::: Select ::::

HOME >

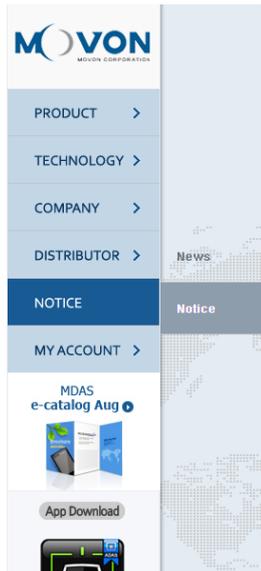
Notice

| Number | Subject   | Writer |
|--------|---|--------|
| 17     | MDAS-3LF Video Viewer Program                            | admin  |
| 16     | MDAS DTG Viewer for MDAS-3LF MDAS-20                   | admin  |
| 15     | MDAS-20 Installation Guide                               | admin  |
| 14     | MDAS-3 Installation Guide                                | admin  |
| 13     | MDAS-3 PC Driver for Installation                        | admin  |
| 12     | MDAS-3LF hit the market                                  | admin  |
| 11     | User guide of Web Portal ( Fleet Management Service )  | admin  |
| 10     | New MDAS PC Viewer                                      | admin  |
| 9      | MDAS-20 User Manual                                    | admin  |
| 8      | OBDII Location of Honda Accord 2013                   | 관리자    |
| 7      | Firmware Update Manual for MDAS-10                    | 관리자    |
| 6      | MDAS viewer installation guide                         | 관리자    |
| 5      | MDAS Viewer installation file -64bit                   | 관리자    |
| 4      | MDAS Viewer installation file -32bit                   | 관리자    |
| 3      | MDAS-10 Installation Guide Book.                       | 관리자    |

You can find MDAS-3 PC Calibration file. Please download and unzip it. When you install it, please click the right button on your mouse and select “Run as administrator”.

### 6.2 Computer with Windows 10

① Visit <http://www.mdas.co.kr> and click “Notice” tab.



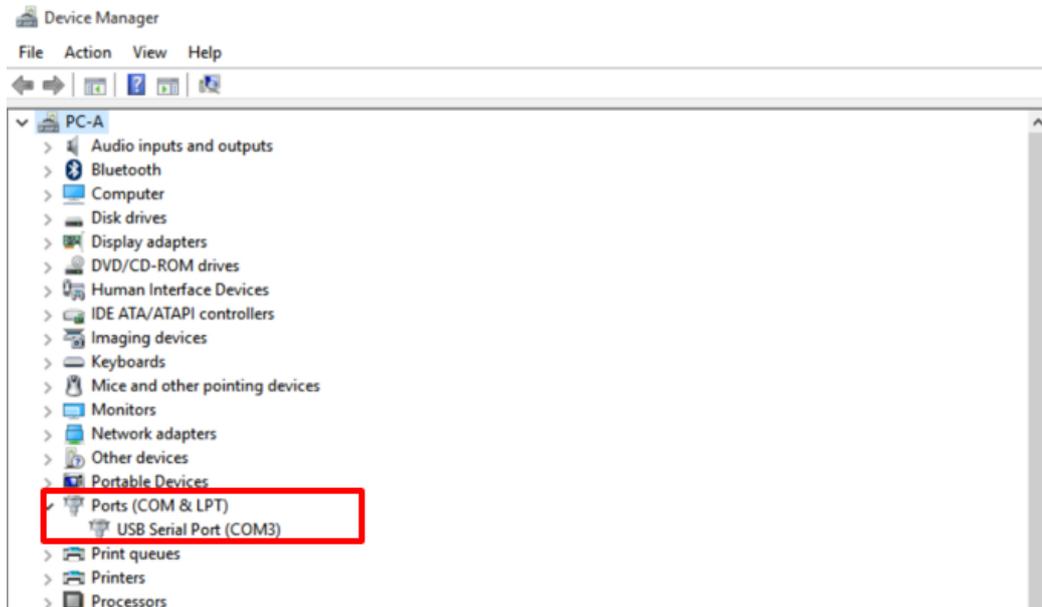
LANGUAGE ::: Select ::: LOGIN JOIN

HOME > Notice > Notice

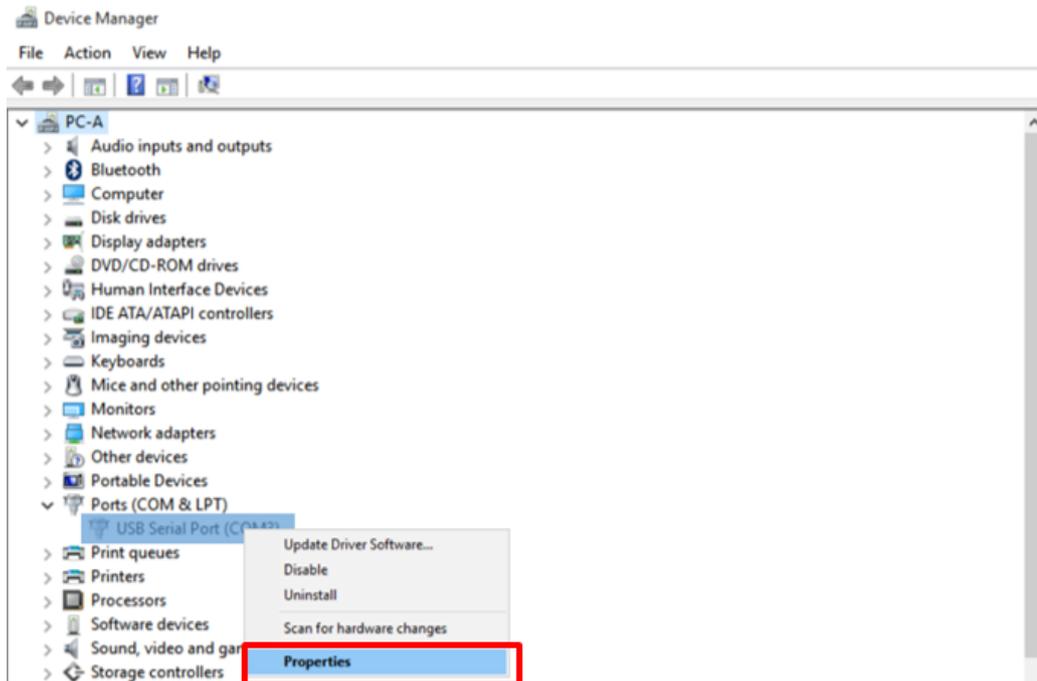
Total 16

| Number | Subject   | Writer | Date  | Views |
|--------|---|--------|-------|-------|
| 16     | MDAS-3LF Video Viewer Program                         | admin  | 05-12 | 243   |
| 15     | MDAS-20 Installation Guide                            | admin  | 08-29 | 510   |
| 14     | MDAS-3 Installation Guide                             | admin  | 08-29 | 483   |
| 13     | MDAS-3 PC Driver for Installation                     | admin  | 08-29 | 682   |
| 12     | MDAS-3LF hit the market                               | admin  | 07-07 | 591   |
| 11     | User guide of Web Portal ( Fleet Management Service ) | admin  | 03-12 | 428   |
| 10     | New MDAS PC Viewer                                    | admin  | 12-04 | 434   |
| 9      | MDAS-20 User Manual                                   | admin  | 09-11 | 671   |
| 8      | OBDII Location of Honda Accord 2013                   | 관리자    | 06-20 | 502   |
| 7      | Firmware Update Manual for MDAS-10                    | 관리자    | 02-18 | 541   |
| 6      | MDAS viewer installation guide                        | 관리자    | 01-03 | 481   |
| 5      | MDAS Viewer installation file -64bit                  | 관리자    | 01-03 | 466   |
| 4      | MDAS Viewer installation file -32bit                  | 관리자    | 01-03 | 413   |
| 3      | MDAS-10 Installation Guide Book.                      | 관리자    | 12-23 | 476   |
| 2      | MDAS-10 User Manual.                                  | 관리자    | 12-23 | 496   |

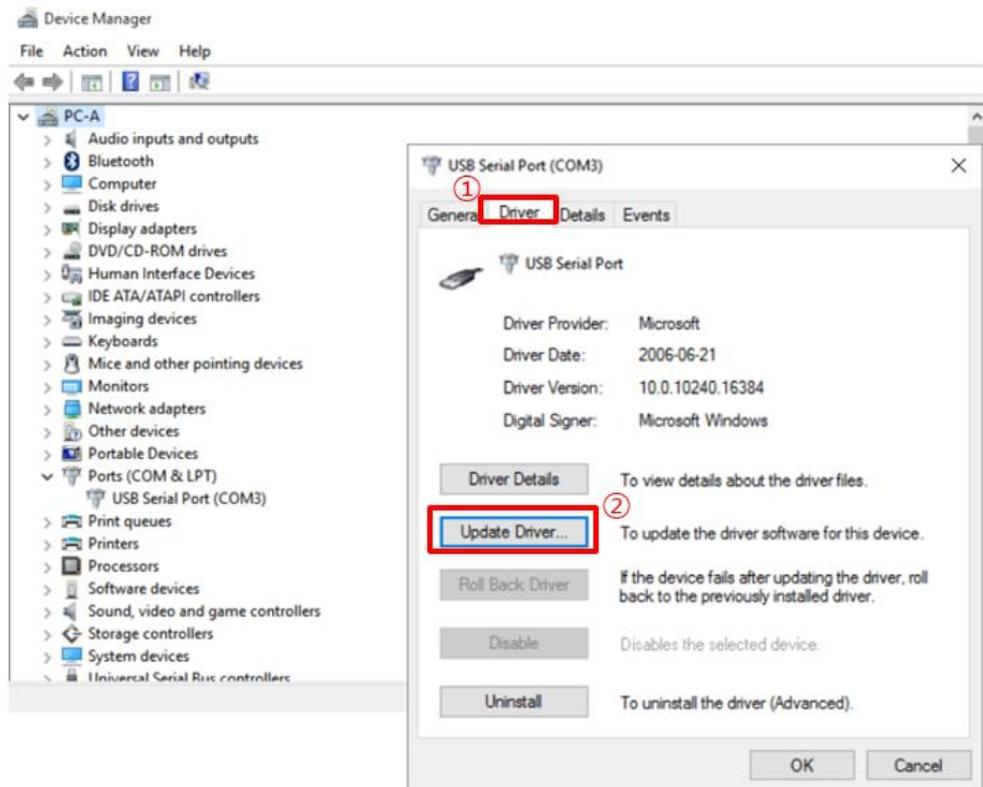
- ② Download RNDIS driver and unzip it.
- ③ Press Window key + R. Type “devmgmt.msc”.  
You will see Device manager and a **USB serial Port (COM x)** under **Ports (COM & LPT)**.



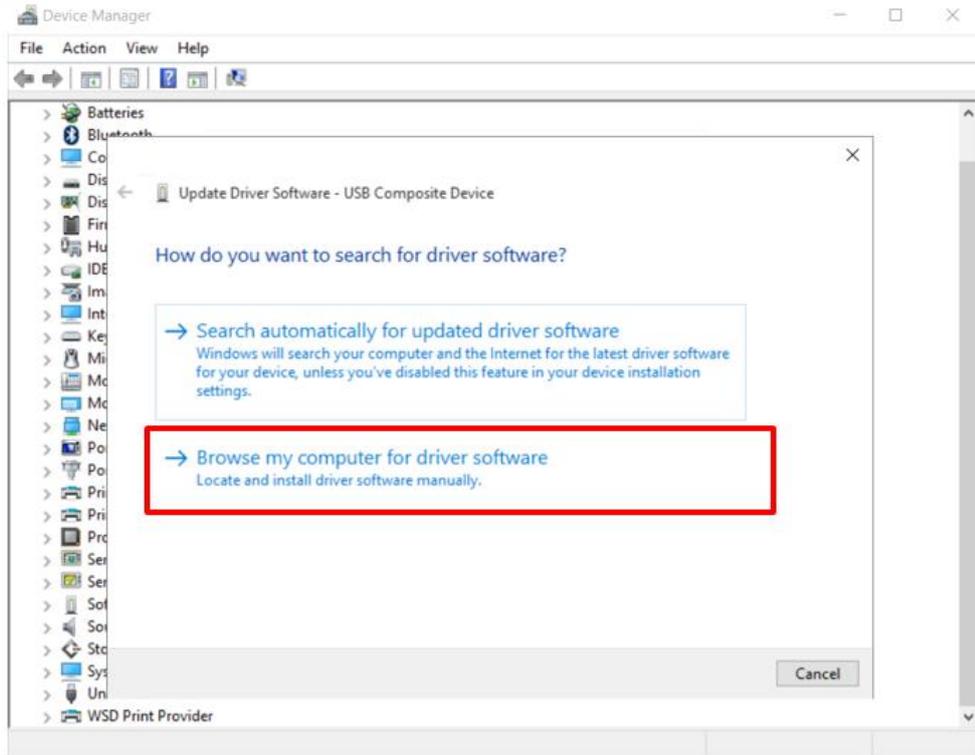
- ④ Click it using the right button of your mouse, then click “Properties”.



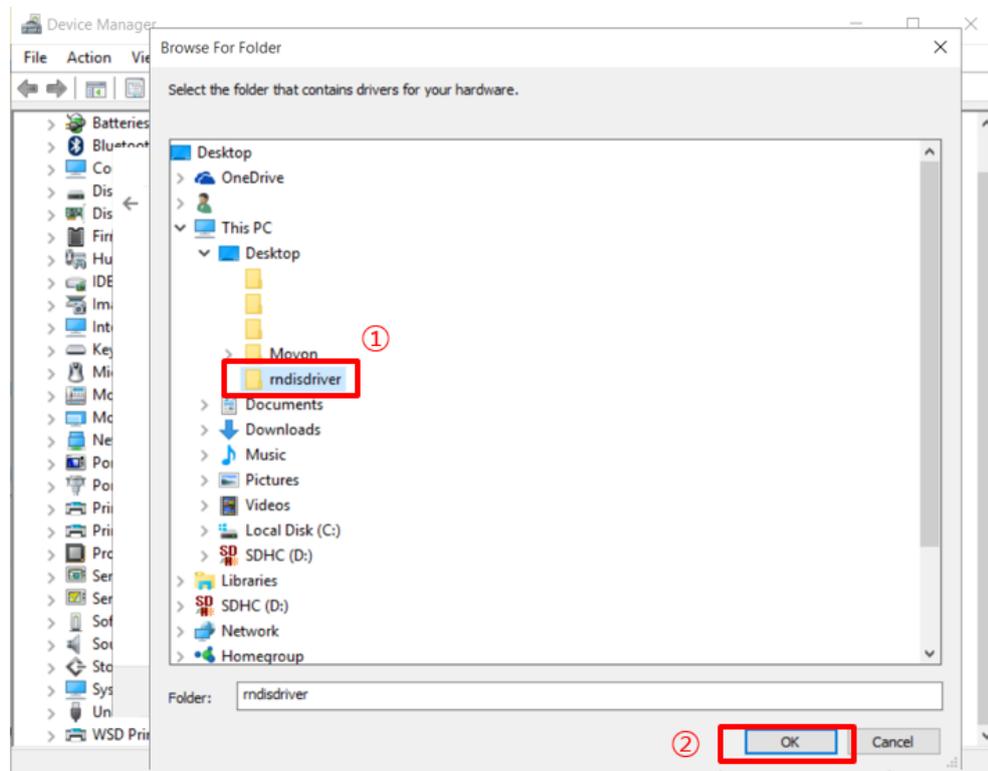
⑤ In the newly popped up window, Go to “Driver” tab, and click “Update Driver”



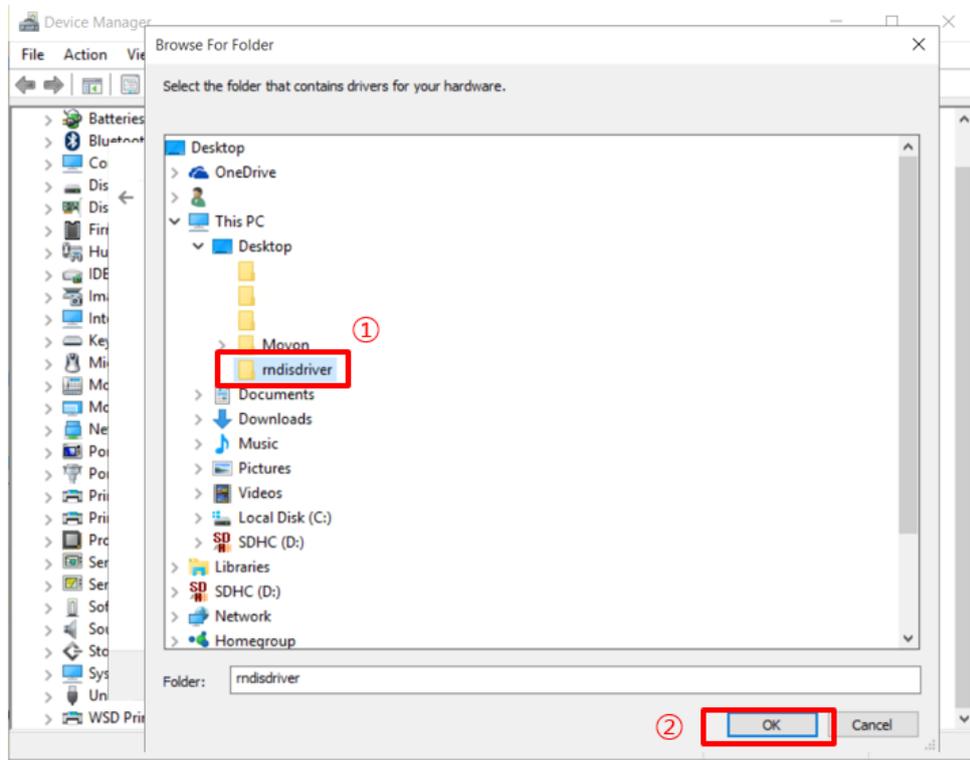
⑥ Select “Browse my computer for driver software”.



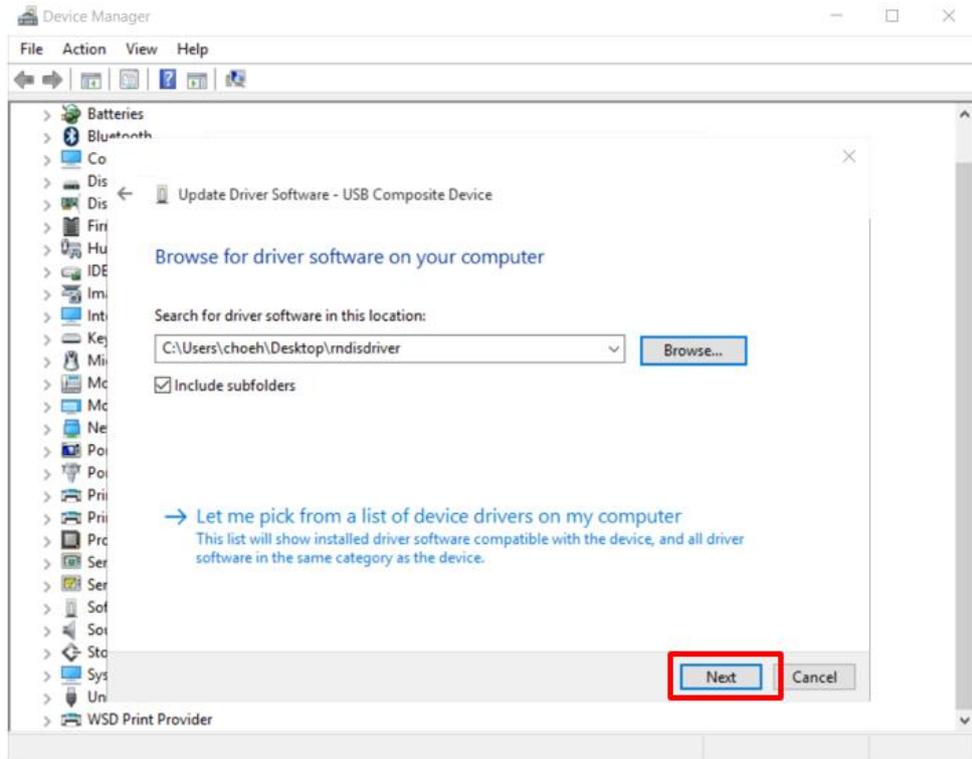
⑦ Click "Browser..." button and "Browse For Folder" window will pop up.



- ⑧ Choose “rndisdriver”.  
\* Remember the path where you downloaded and unzipped the file \*

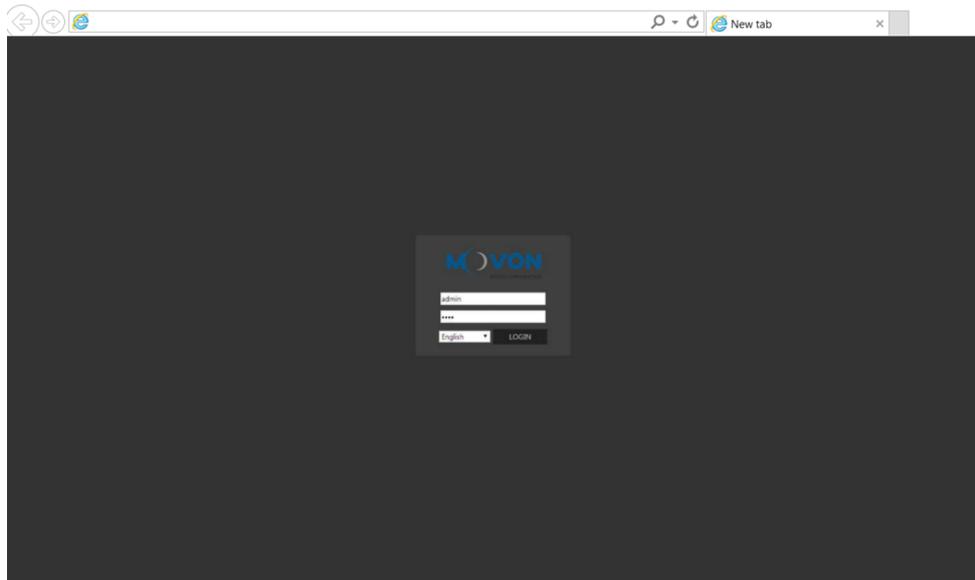


- ⑨ Press “Next” on the page below.



After installing the driver, you can close the windows.

- ⑩ Open a web browser and type <http://10.0.0.1>



If you see MDAS-5 page like above, you have done everything perfectly.