

# DSM Calibration

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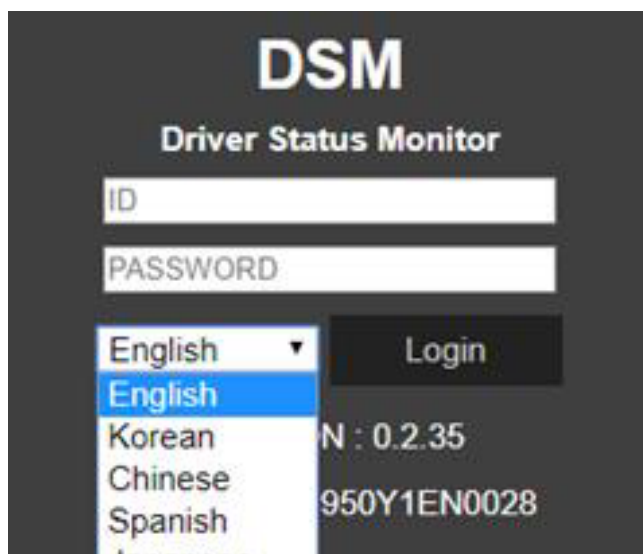
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## PC Calibration

Driver Setup (ONLY SUPPORTS WINDOWS OS)

- If connecting the DSM camera to computer, the calibration page is not available, please follow the steps below:
- Please install RNDIS driver. LINK: <http://movon.co.kr/downloads/rndisdriver.zip> (Windows 10)
- If the driver does not install itself automatically, please follow the guide in this document [here](#)
- Unzip the file and remember the unzipped folder location.



## Calibration Setup

- Access DSM Calibration page via PC
  - Connect DSM to PC using USB Type-C cable with 5 pins.

- Power on DSM. If you hear repeated beep sound, this means DSM is properly connected to computer.
- Activate the browser and enter into <http://20.0.0.1:18087/> to access DSM calibration page. Google Chrome is recommended.
- If you see the page below, please select language you want and sign in using following information

- ID: admin - Password: 1234

**Please NOTE: Starting from August 31, 2023, we are confirming the release of new firmware. As a result, you will be able to receive the DSM with the updated firmware. If you have followed all the necessary steps before and have not accessed the calibration page <http://20.0.0.1:18087/>, you will need to use this web page: <http://30.0.0.1:18087/>**

## Calibration

- Select Speed Type
  - GPS Speed setting - GPS antenna is embedded on DSM. If GPS work correctly, detected is shown. If GPS doesn't work for 5 mins, Fail is shown.



## CAN Speed setting

- DSM can get speed through CAN as well.
- DSM only recognizes encrypted CAN data from our Database site; <http://info.mdas.co.kr>


Please download can file from the DB and upload to system.



## Verify Speed Signal

You can check the speed data is coming correct by test drive.

If there is a deviation, please use the following correction method.

Please click the "Correction" button when you drive at 40km/h (24mph). Then, DSM will set new speed automatically. 

## Camera Setting

1. Calibrate camera, that face will be in center of the image in calibration page.
2. After that, just go to the next step.

## DSM Setup

The camera can also be configured through its configuration, main settings that can be seen are pointed out below:



Configurable parameters:

- ON/OFF: Enable Drowsiness, Distraction, Phone, Smoking, Yawning.
- Sound Type: Check the warning sound and select the one you prefer. Press Play button to test Warning Alarm Sound.
- Vibrator: Enable vibration function. (On / Off)
- Sensitivity: Set the sensitivity on a scale of 1 to 3. As the level gets higher, it gets more sensitive. Yawning warning will generate when yawning for 2 seconds.
- Activation Speed:

1. You can set up activation speed by DSM alert respectively.
2. Set the Activation Speed ( 15 ~ 60Km/h ≈ 10 ~ 40mph). The functions will be activated when the vehicle is faster than this speed.
3. If you select Others, you can input the activation speed in the below box. Note that the input range is between 5Km and 100km.

- DIP switch on unit: Enable DIP switch on DSM's unit.
- Sound Level: Control the warning sound level on a scale of 1 to 4.
- Test Mode : If you want to test DSM at any speed, please select "ON"  Time-out Feature: Select if apply below time-out logic. (On / Off) \* Time-out feature: An event and chime will be fired when 'First Trigger Count' number of triggers happen within 'First Trigger Interval'. After the first event and chime, additional events chimes up to 'Max Trigger Count' will be fired as long as they happen within 'Max Trigger Interval'. When 'First Trigger Interval' or 'Max Trigger Interval' expire, the trigger count it reset to 0.

## Miscellaneous Settings

In the miscellaneous settings, a few important parameters should be configured, to ensure, the correct DSM is working. Please make sure, that You've selected the correct baudrate — **115200** in the FMS RS232 Baudrate field. This setting is necessary for correct DSM and FMx64 working.



Other parameters can be configured as well, but these settings can be adjusted from the FMx64 device.

## Driver Registration

Face ID or driver registration is required in order for the camera to recognize different drivers. In the DSM menu, click on "Driver Registration" and follow the steps below in order to calibrate the camera angle:

Look into the camera and click "next" once you have the distance and angle set accordingly.

Once this is done, name the photo with the driver's ID or name and keep the document uploaded inside DSM.