GUARDIAN DIRECT VISION PSS CALIBRATION SETUP GUIDE

1. Install the driver

Using your laptop or Windows powered tablet (must have a USB port) Insert USB stick supplied with calibration kit.

Open USB file and click on BSIS & MOIS Software



2. Choose the software version

Choose 3.5 or 4.8 .Net framework according to laptop version as below:

DADAC Not	Framowork	2 5	2022 12 20
RADAS.Net	Framework	3.5	2022.12.20

RADAS .Net Framework 4.8 2022.12.20

Open the application in chosen folder.

RDADS	\odot	08/09/2023 01:42	Application

3. Calibrating the BSIS via RDADS

3.1. Wiring connection of CAN to USB tool



3.2 BSIS Parameter setup explanation

- 3.2.1 Parameter:
- L1: Dynamic BSD test area width
- L2: Dynamic BSD test area length
- L3: Static rear side detection area width
- L4: Static front side detection area length
- L5: Distance of sensor position to front of vehicle
- TTCI: Dynamic rear side time to collision
- TTC2: Dynamic front side time to collision
- TTC3: Static rear side time to collision
- TTC4: Static front side time to collision

Pic.2 Calibration tool interface

Radar Detection Area Definition Software



3.3 Calibration tool demonstration

Click "Connect" to login to device.

Click "Read" to get the current setup parameter.

Update the parameters using the details in the green box below.

L2 is the minimum, however for longer vehicles it is advised to measure the vehicle from front corner to rear axle.

L5 must be added using your own measurements based on vehicle and fitting location.



Pic.4 Software Screenshot

After changing the parameter, click the **"Set"** button to save the parameter, and check the result in the information bar: **Received reply from control change effective**

Click "Disconnect"

Parameters required for DVS PSS compliance

LI -		2.2
L2	Length of vehicle Front corner to rear axle	9 Minimum
L3		2.2
L4		2.0
ТТСІ		12
TTC2		4
ттсз		4
TTC4		4
L5	Distance from sensor to front of vehicle	



Pic.5. Software screenshot

Once the BSIS side detection is fitted to the vehicle it is now time to calibrate the sensor, move the vehicle to an open area with no obstructions in the test area, turn on the unit, and wait for the red light to go out, once the light has gone out switch the white toggle number one to the down position light will turn amber once the light has gone out turn the toggle back up, now turn the unit off and wait 10 seconds then turn back on system is now calibrated.

4. Calibrating the MOIS via RDADS



Change to **"No.2 MOIS"**



Connect to unit and update parameters as with BSIS.

4.2 MOIS Parameter setup and button explanation

- 4.2.1 Parameter:
- W1: Right side width setting (width of truck from centre +0.5mtr min up to 2m)
- W2: Left side width setting (width of truck from centre +0.5m min up to 2m)
- L1: Front detection distance Om
- L2: Ignored distance before detecting object 2m
- TTC: Time to collision warning 3 seconds

Set check information says received a reply from control, change effective, now click **"disconnect"** Connect the sensor to the front of the vehicle at a height of between 0.7m and 1.3m, once fitted move the vehicle outside to an open area with no obstructions, using the setup button on the back of the display hold the button, ensuring ONI is on, CO is on, DFF is on. When LO appears release button then click setup button again moving screen to L1 this is learning mode now wait for the display to go green learning mode now complete.



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