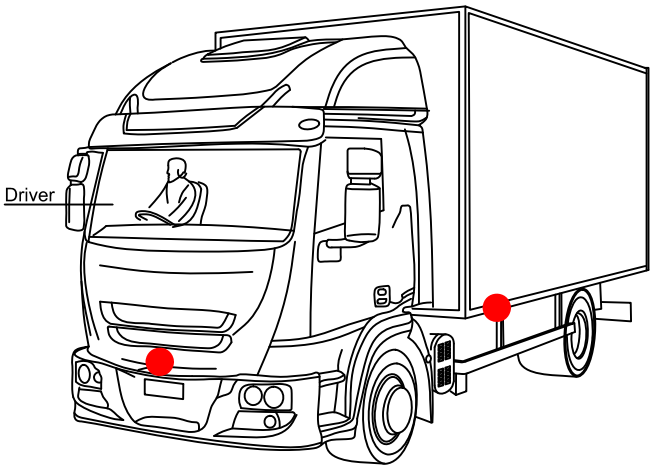
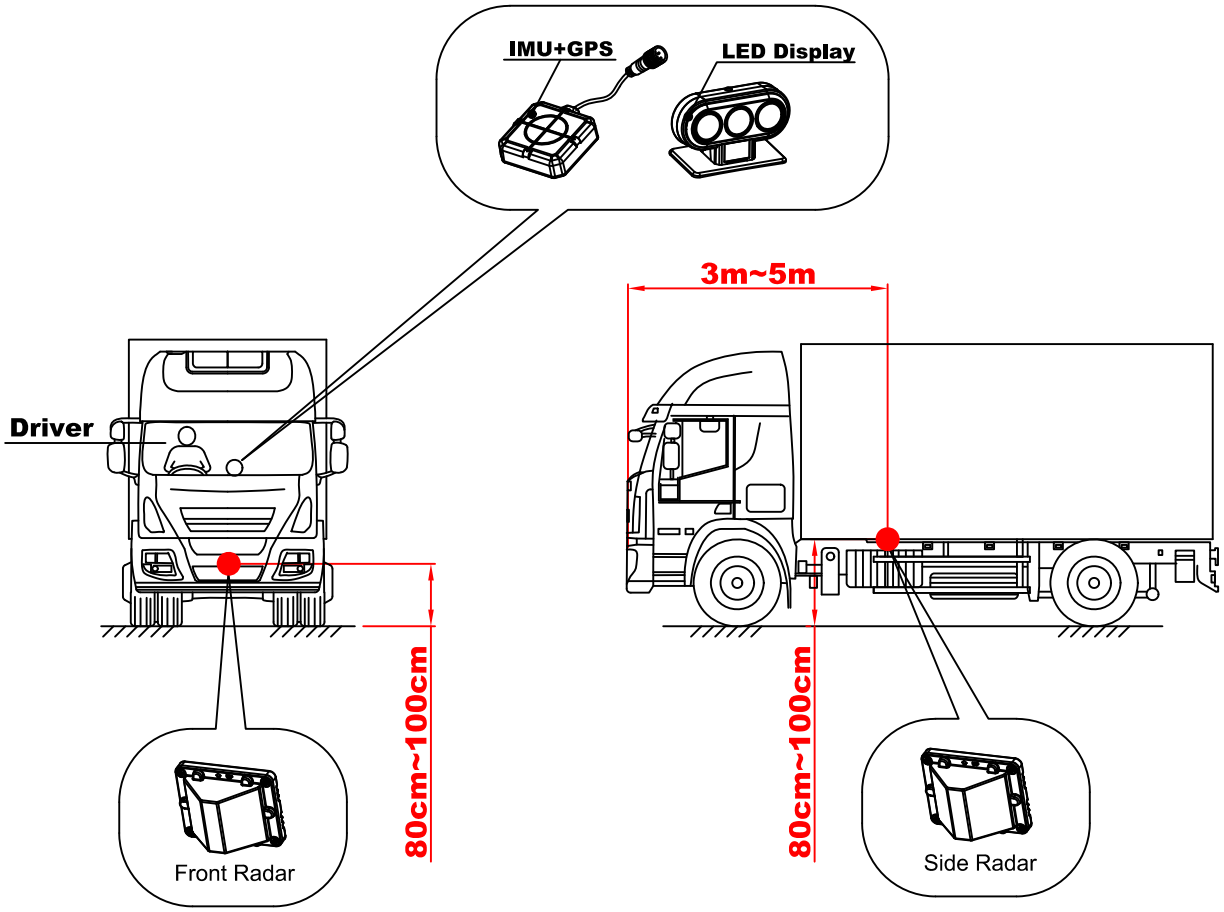
USER MANUAL

Q's system is well designed to provide a 360° on road protection and as a security guard in camping site.

CATALOGUE

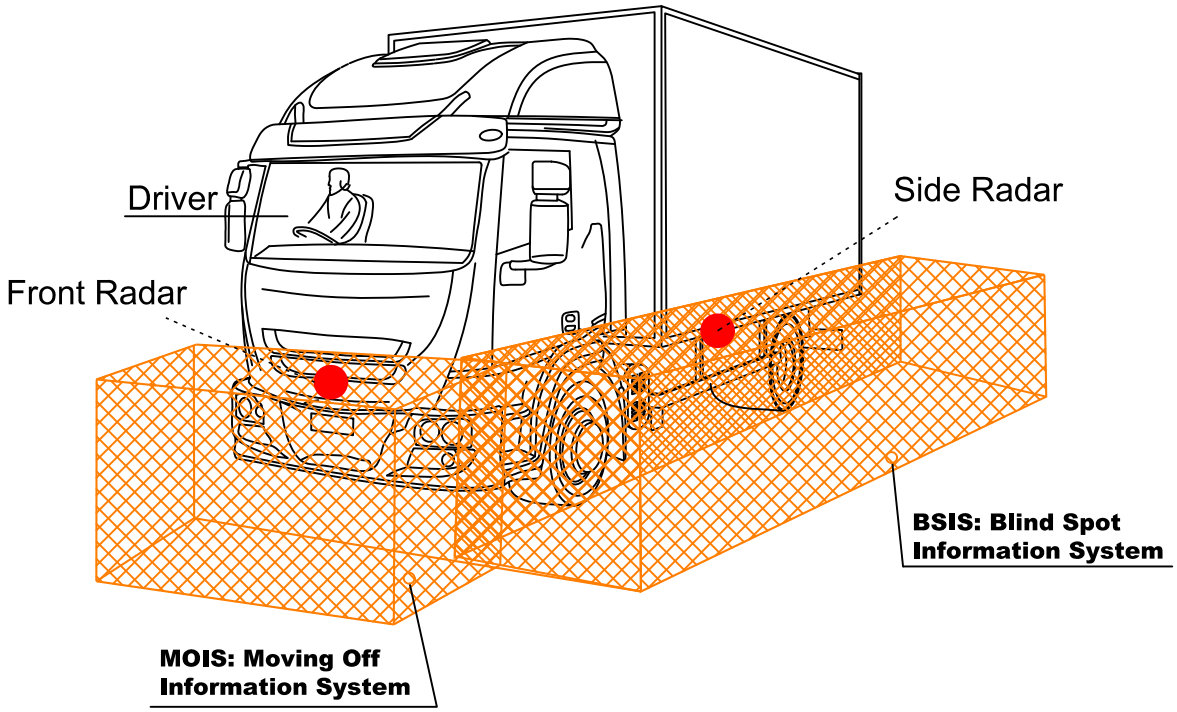
FOR PSS

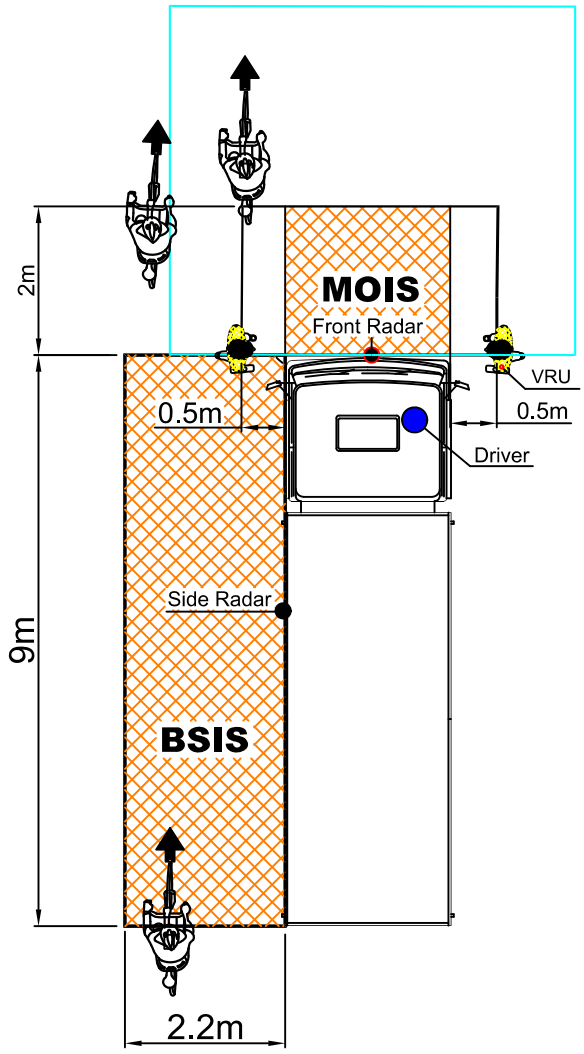




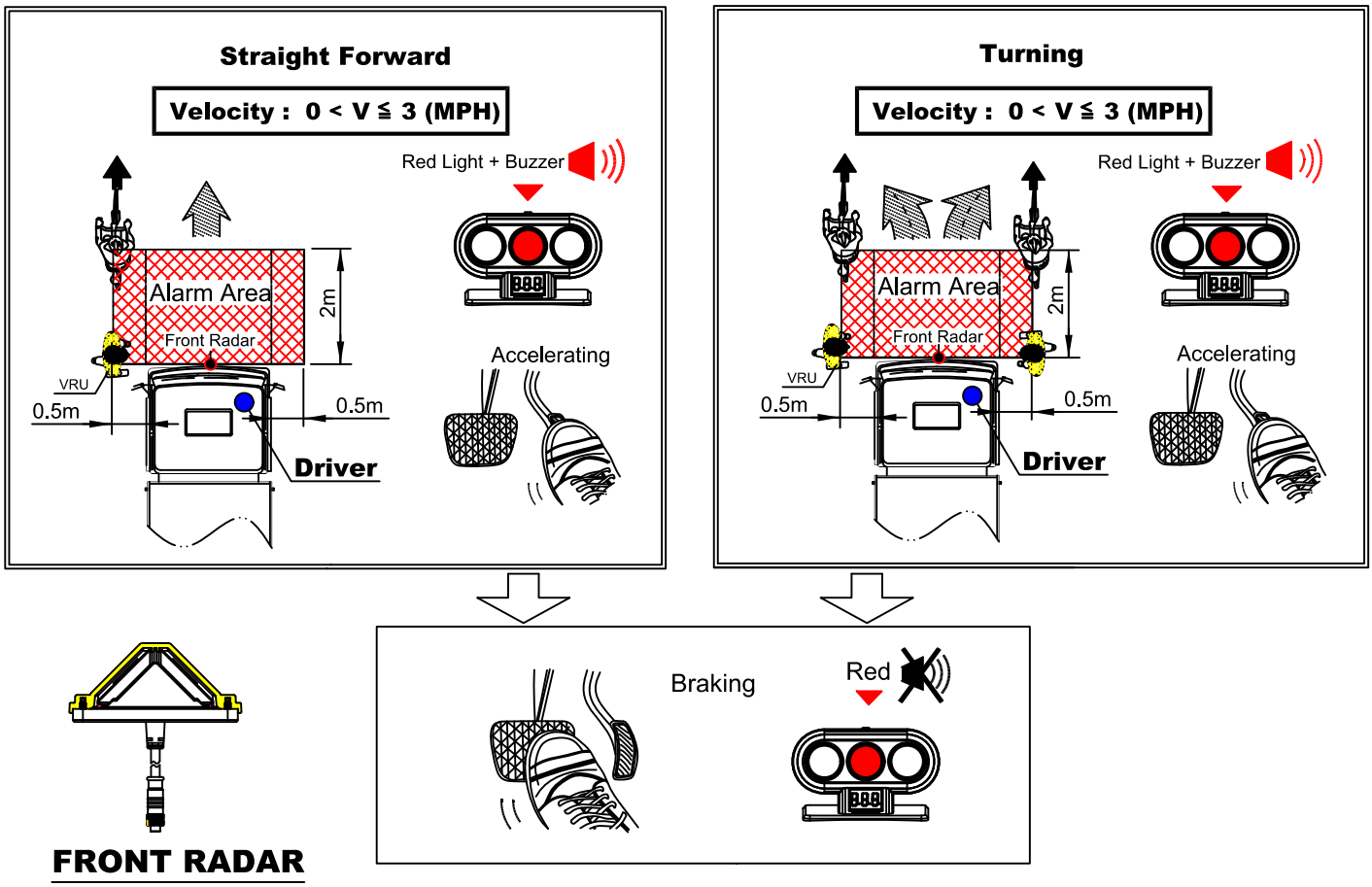
- **The Radar sensor/s can be installed within a height of 80cm to 100cm without calibration.**
- **Any height beyond this range should be further calibrated. The manufacturer shall provide a proper calibration program to the installer.**

FRONT/SIDE COVERAGE

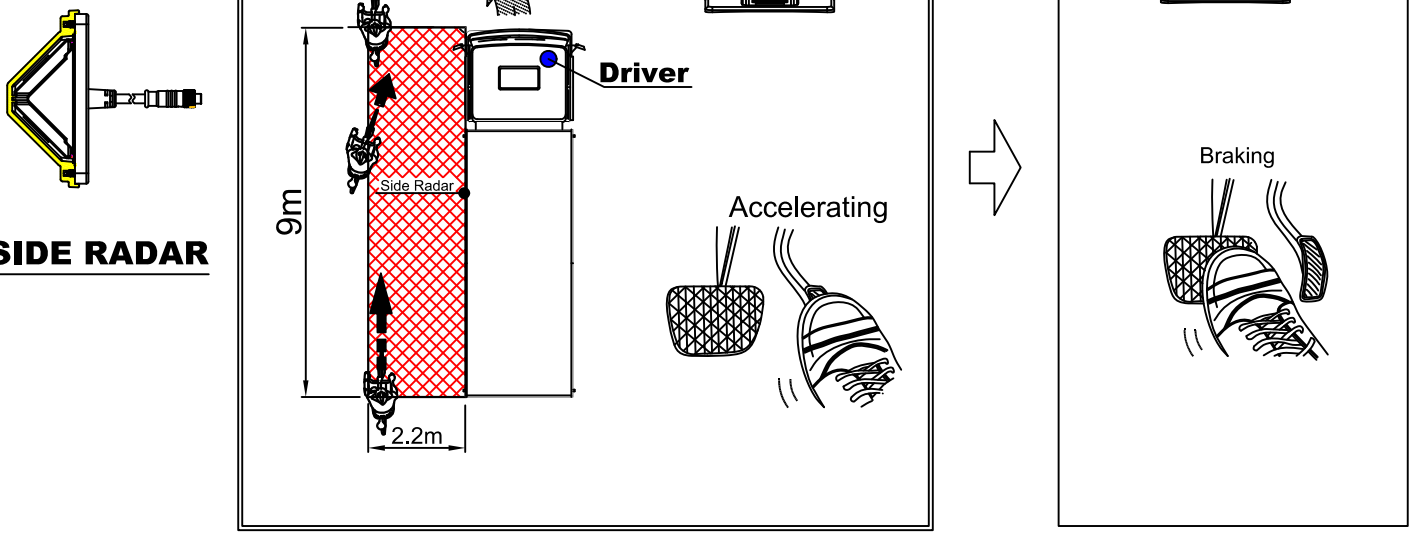




MOVING



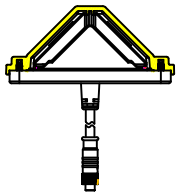
FRONT RADAR



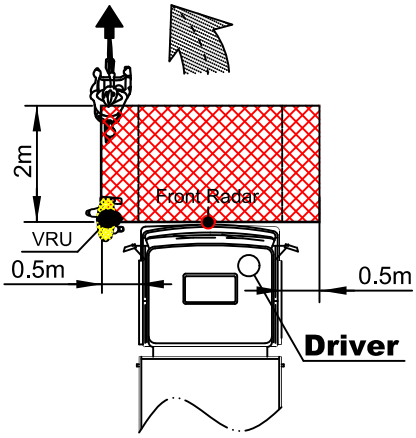
SIDE RADAR

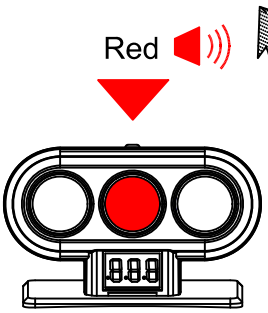
Turning

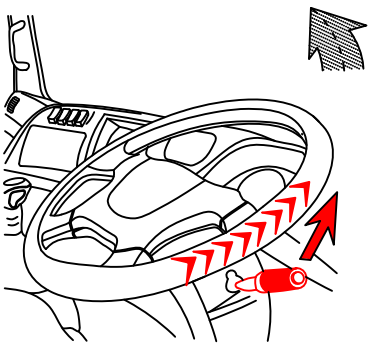
FRONT SENSOR



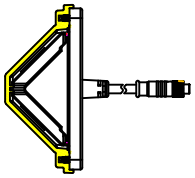
Turning Left

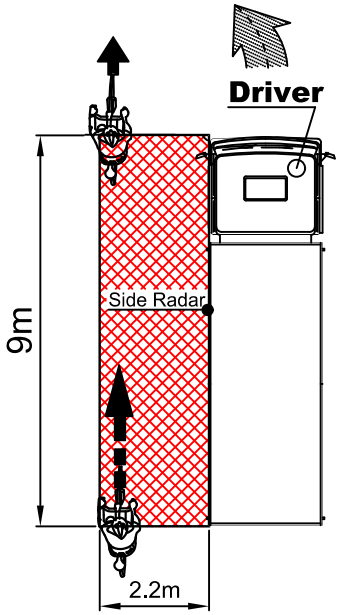


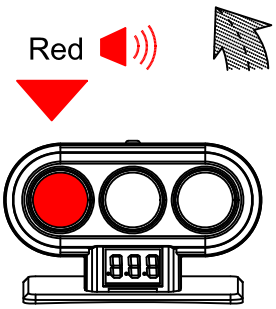


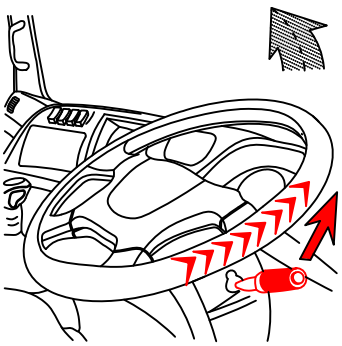


SIDE SENSOR

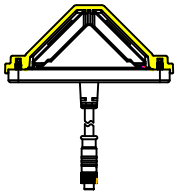




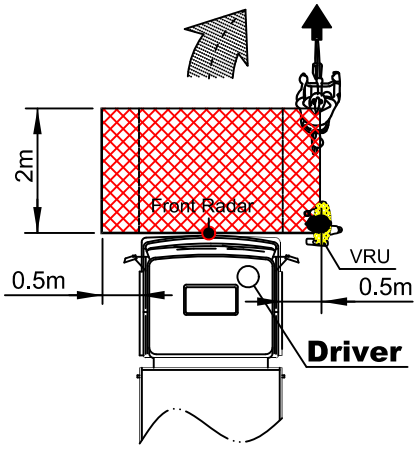


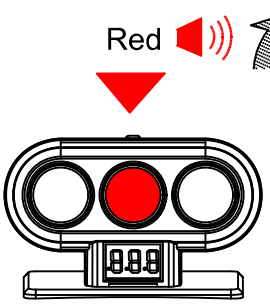


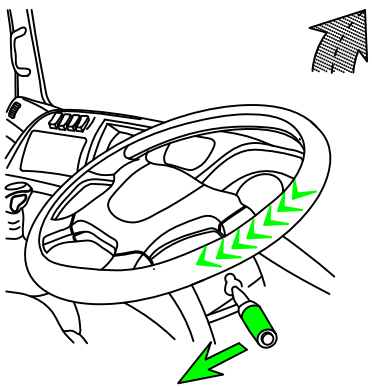
FRONT SENSOR



Turning Right

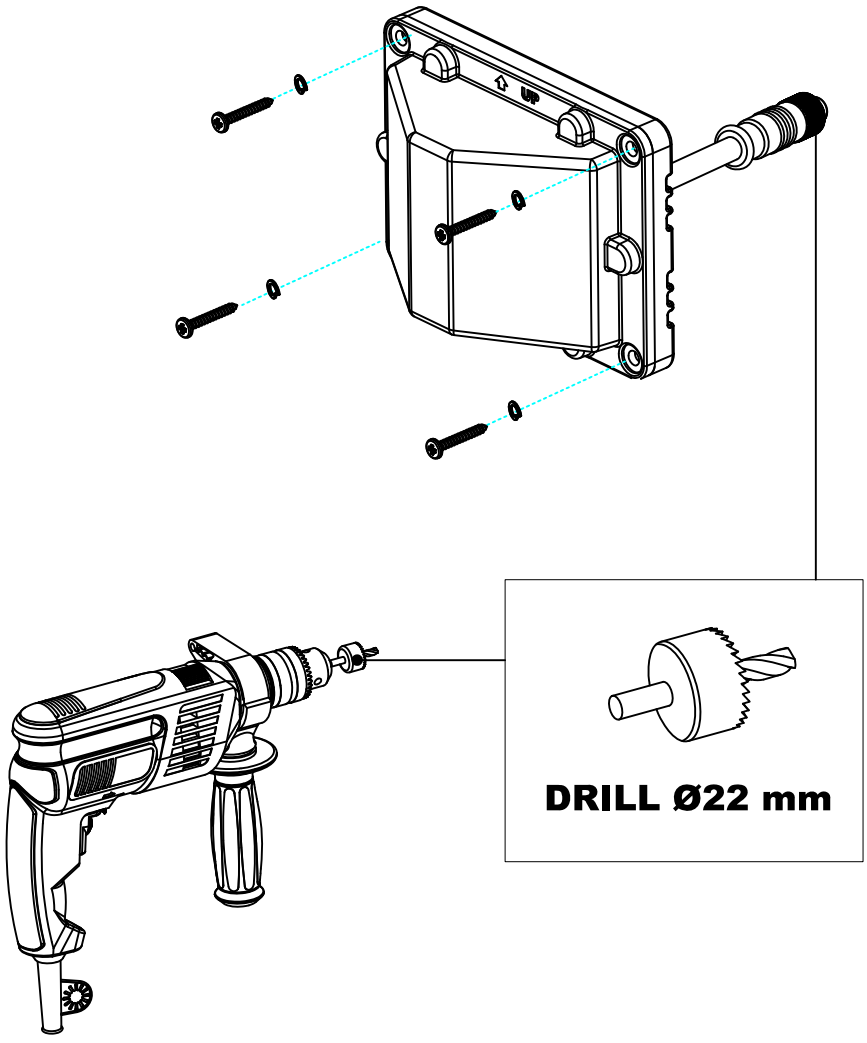




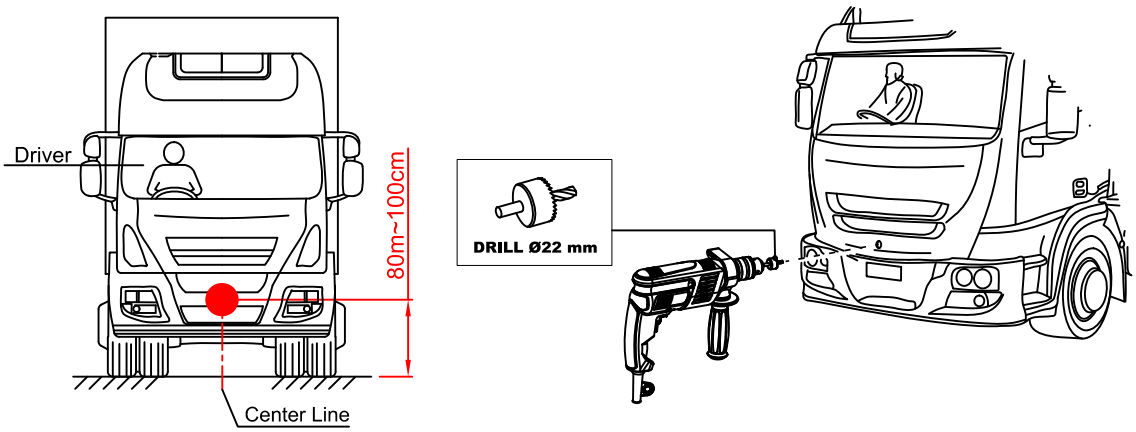


RADAR SENSORS

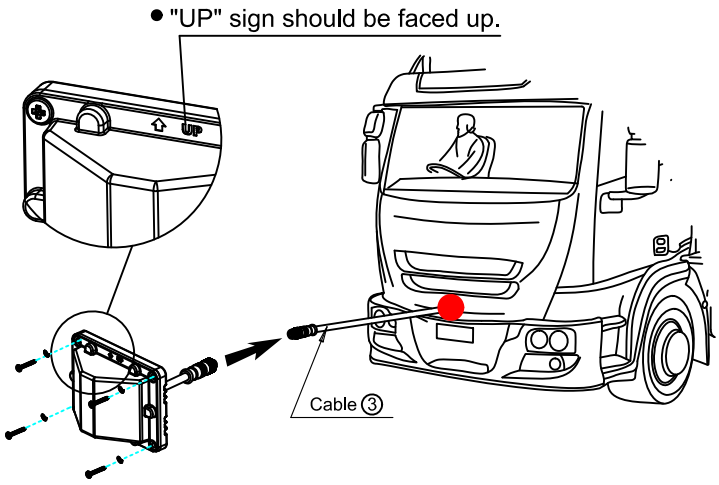
INSTALLATION

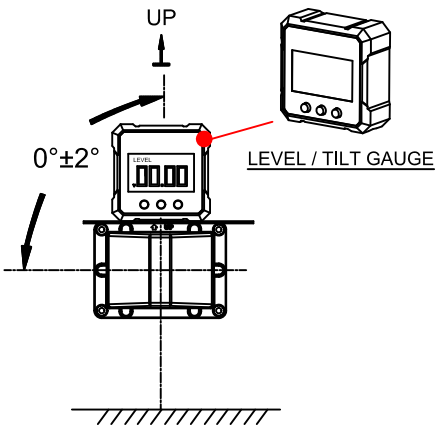


Front Radar

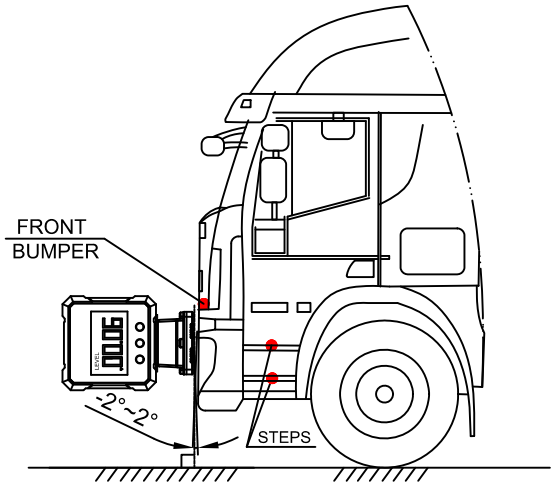


- **The Radar sensor/s can be installed within a height of 80cm to 100cm without calibration.**
- **Any height beyond this range should be further calibrated. The manufacturer shall provide a proper calibration program to the installer.**





HORIZONTAL ANGLE 0°±2°

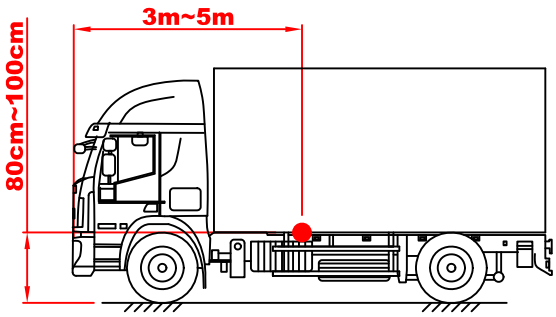


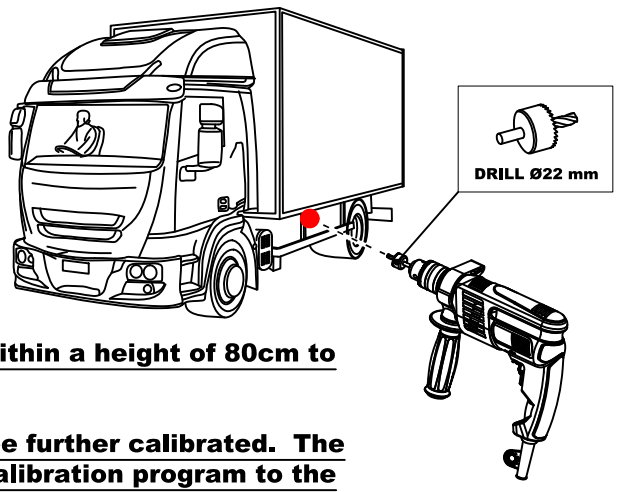
VERTICAL ANGLE 90°±2°

- Horizontal ±2 degree tolerance is acceptable.
- Vertical ±2 degree tolerance is acceptable.

! While installation, Make sure there's no obstacles around.

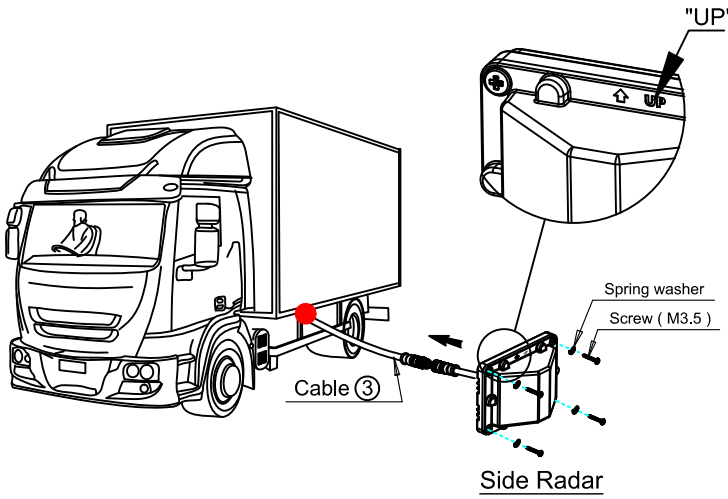
Side Radar

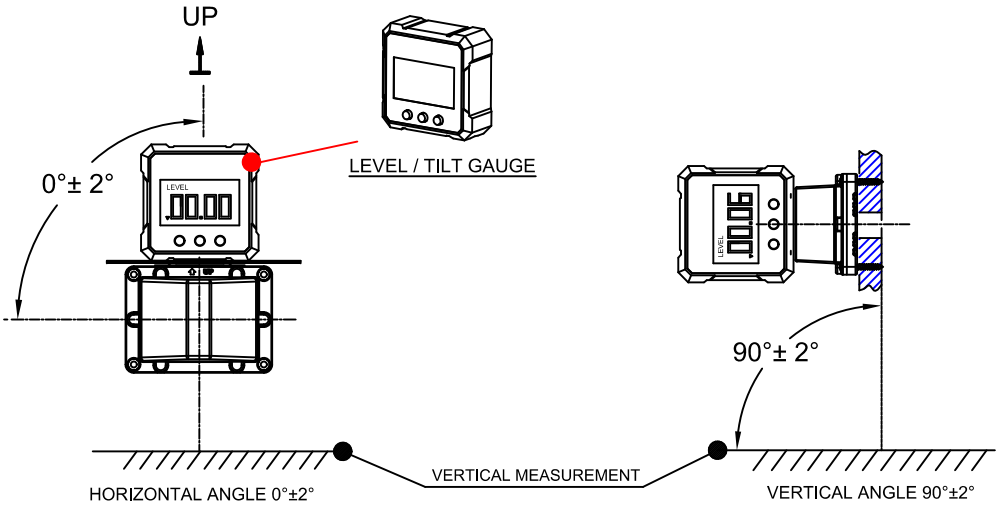




- **The Radar sensor/s can be installed within a height of 80cm to 100cm without calibration.**
- **Any height beyond this range should be further calibrated. The manufacturer shall provide a proper calibration program to the installer.**

- "UP" sign should be faced up.



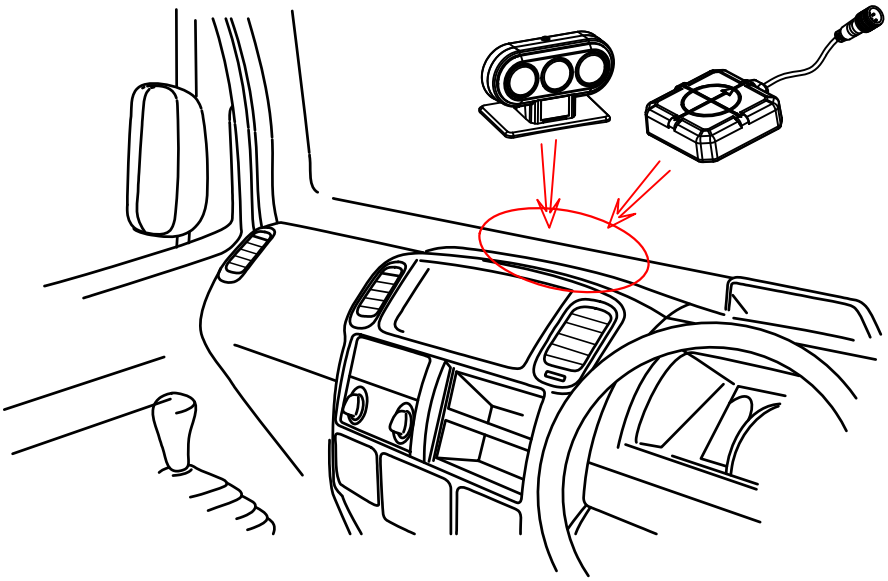


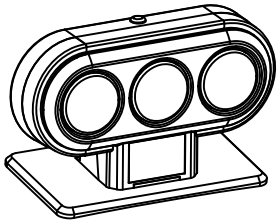
- Horizontal ±2 degree tolerance is acceptable.
- Vertical ±2 degree tolerance is acceptable.

! While installation, Make sure there's no obstacles around.

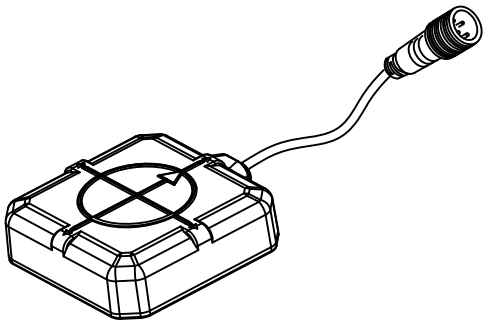
INSTALLATION OF LED/IMU+GPS

ON CABIN's DESKTOP





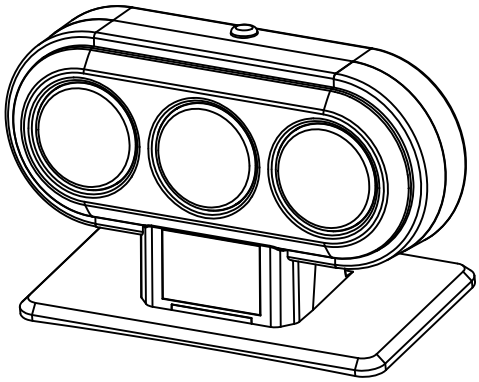
LED Display

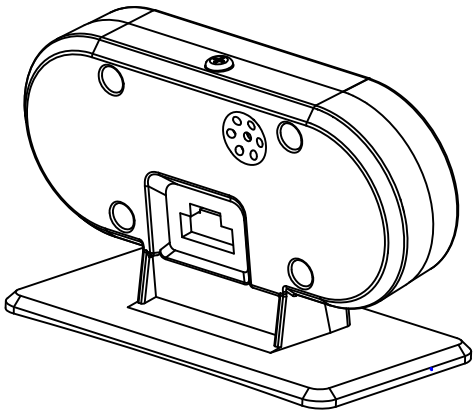


IMU+GPS

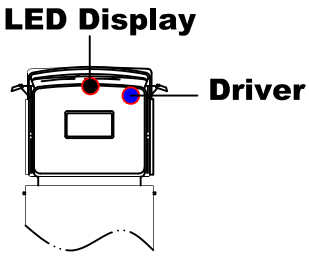
LED DISPLAY

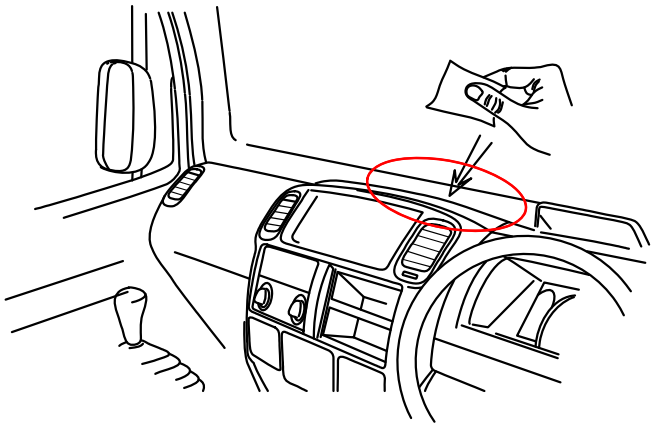
INSTALLATION INSTRUCTION



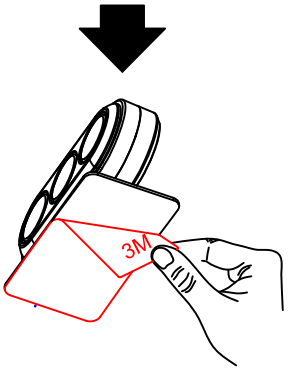


LED Display
Installation Procedure

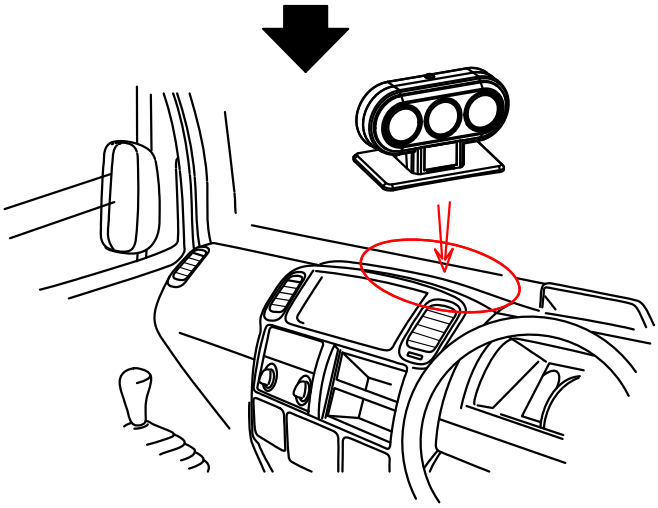




1. Wipe and clean up the mounting position with alcohol swab.



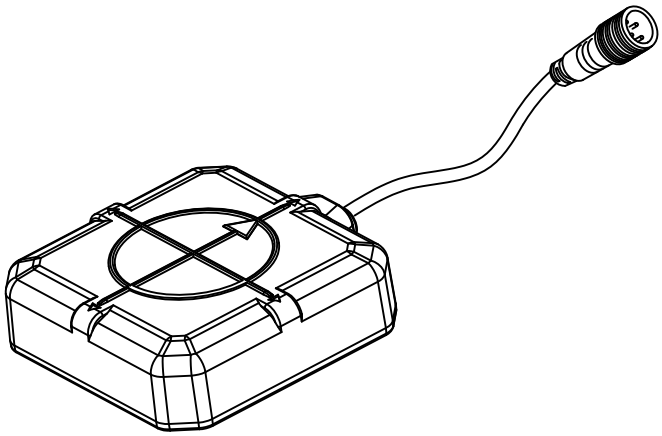
2. Tear off the release film on the buttom of LED Display.



3. Stick the LED Display onto the recommended area.

IMU + GPS UNIT

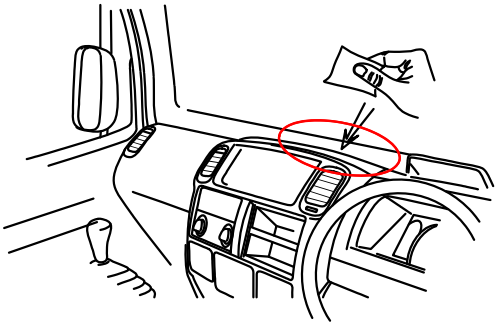
INSTALLATION INSTRUCTION



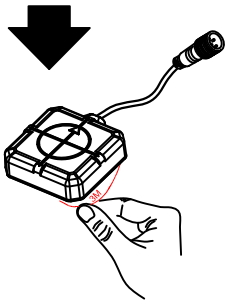
IMU (Inertial Measurement Unit)

GPS (Global Position System)

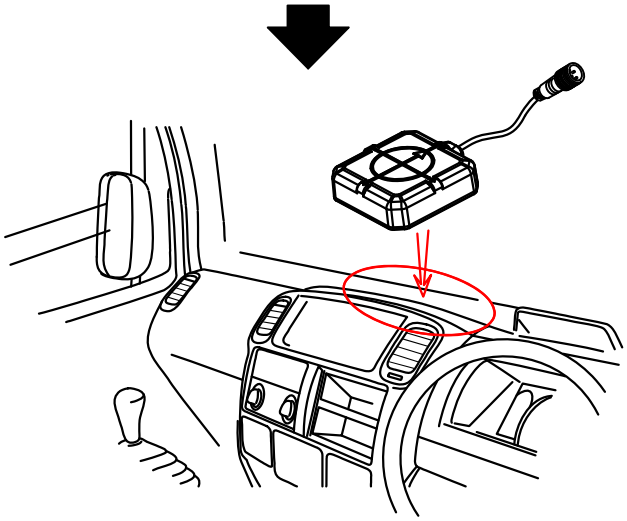
Installation procedure (IMU+GPS)



1. Wipe and clean up the mounting position with alcohol swab.
（It is recommended to mount on a nearly horizontal table）

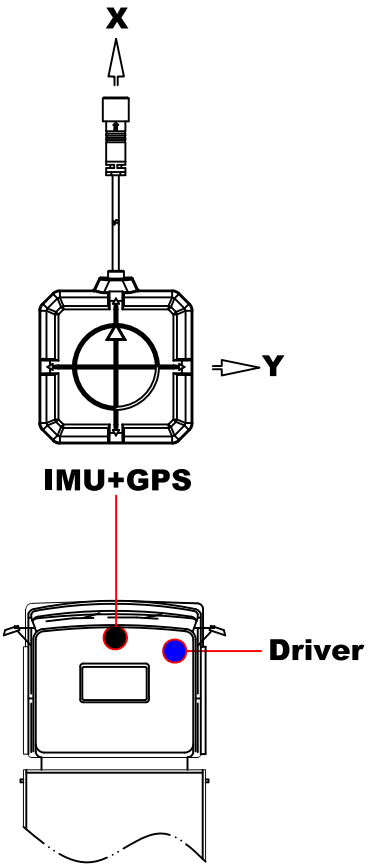


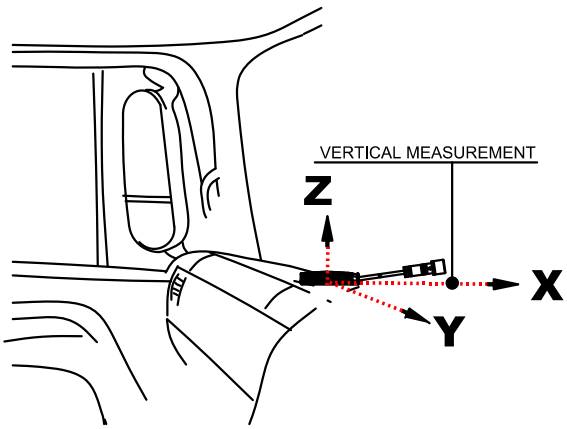
2. Tear off the release film on the buttom of IMU+GPS



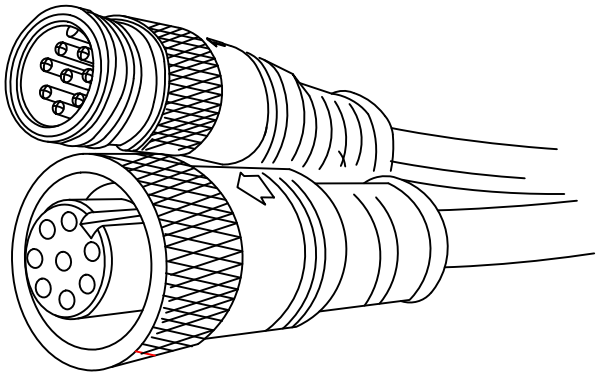
3. Stick IMU+GPS on the recommended area

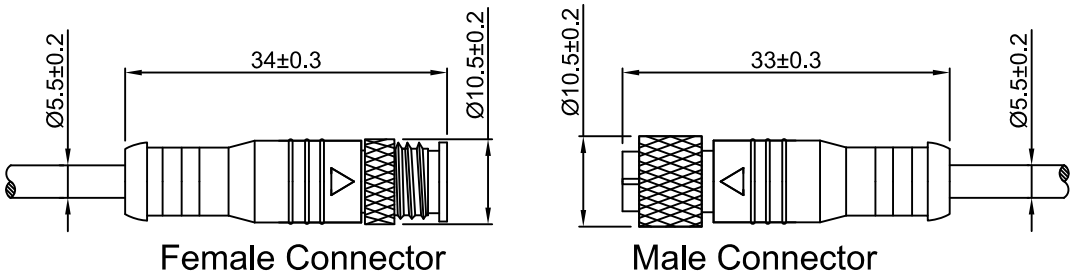
Recommendation





WIRING DIAGRAM

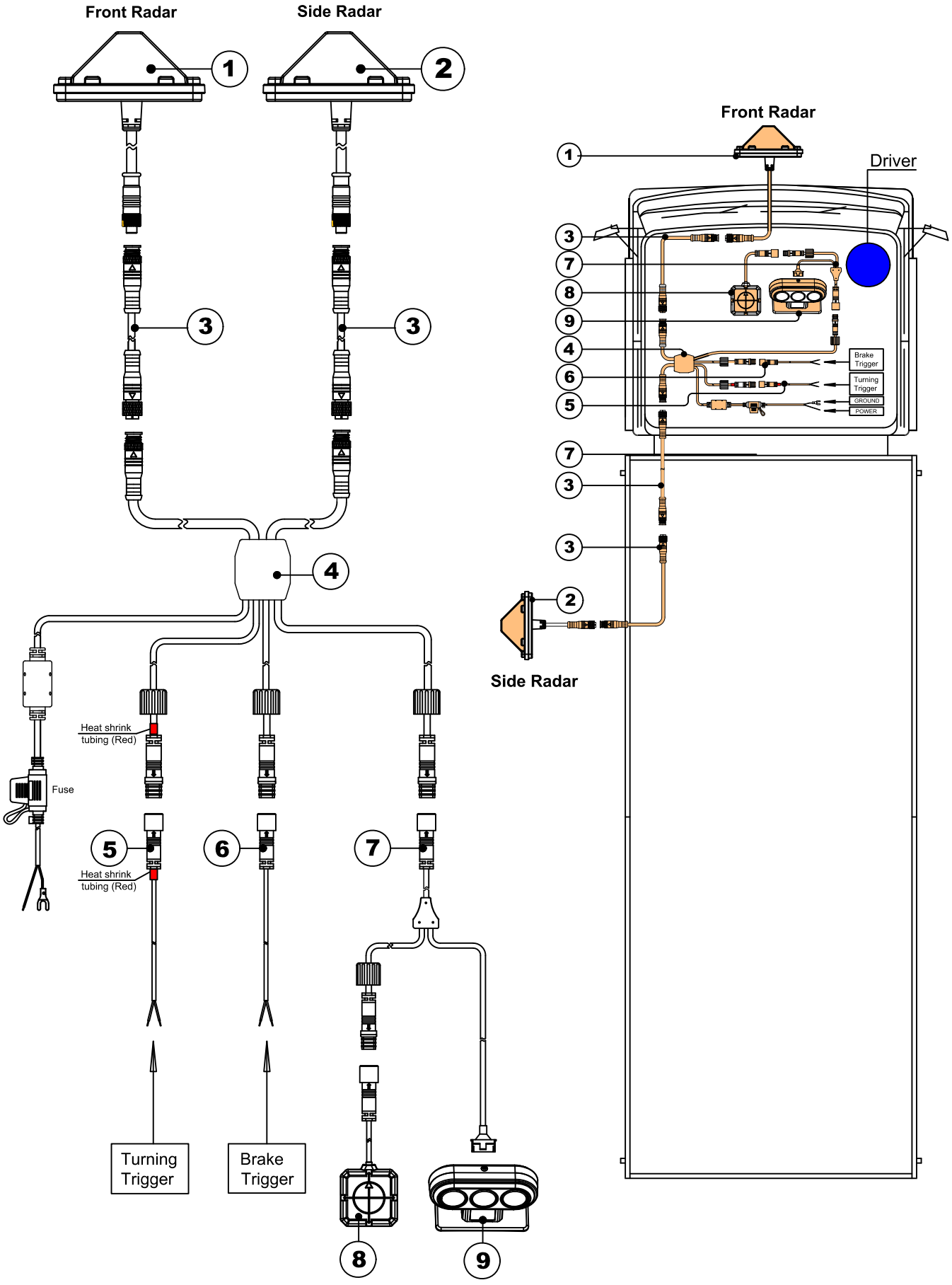




Female Connector Male Connector

(In: mm)

System Wiring Diagram

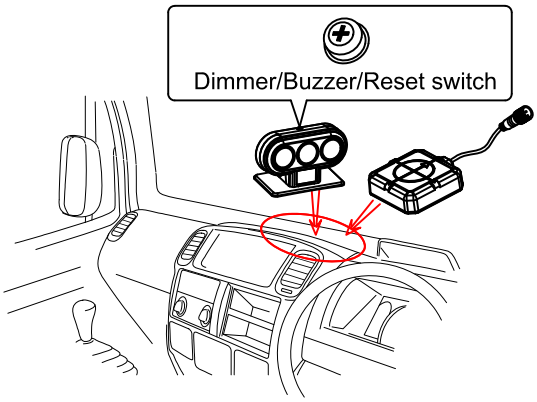


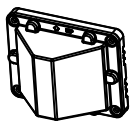
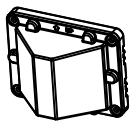
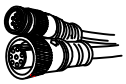
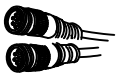
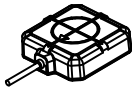
There is a (+) button on the top of LED display .
The button has three (3) functions:

1. **LEDS dimmer control:**
   - Press the (+) button < 1 second for dimmer control.

2. **Buzzer control:**
   - Press 1-2 seconds for speaker on / off.

3. **Long press button for 6 seconds to reset LED Display.**

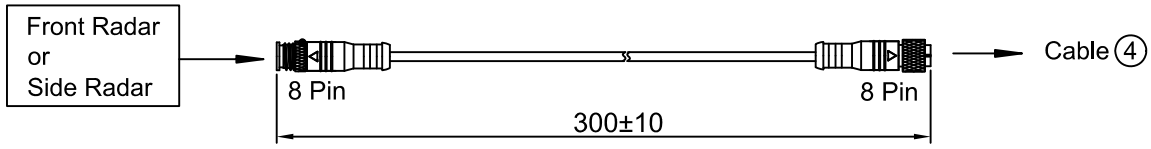


①	Front radar		1
②	Side radar		1
③	Radar extension cable 3m		3
④	System Cable		1
⑤	Turning trigger cable 3m		1
⑥	Brake trigger cable 3m		1
⑦	LED Display & IMU+GPS cable 3m		1
⑧	IMU+GPS		1
⑨	LED Display		1

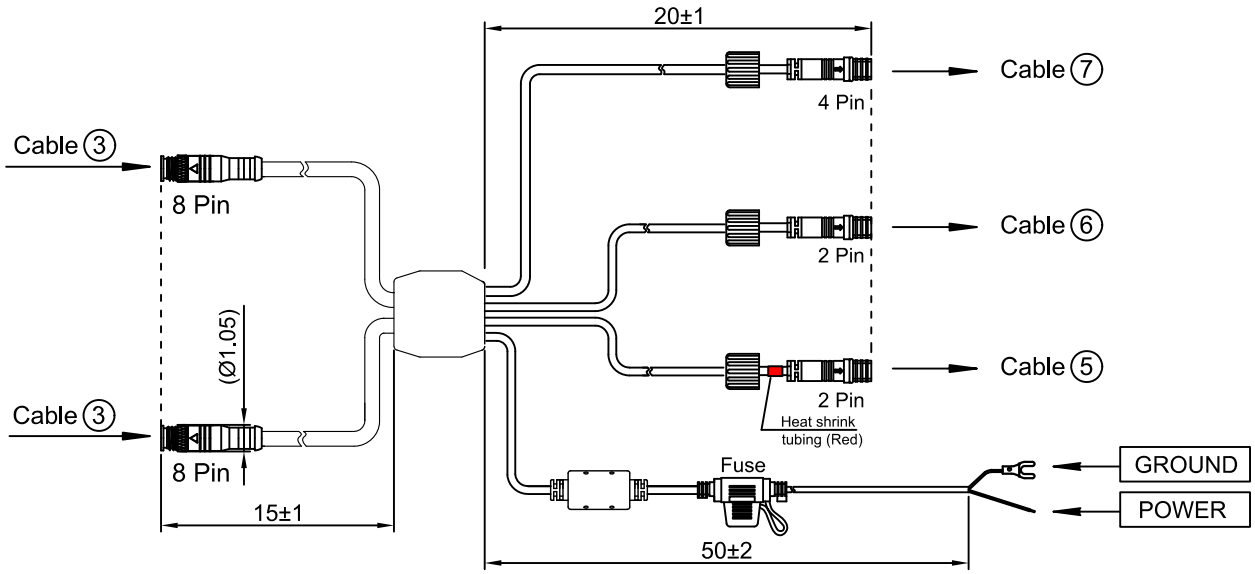
SYSTEM WIRING DIAGRAM

(Basic size : cm)

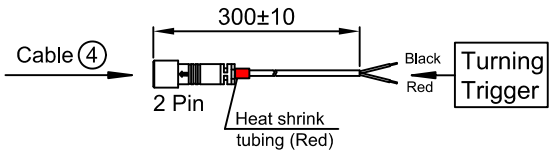
Cable ③



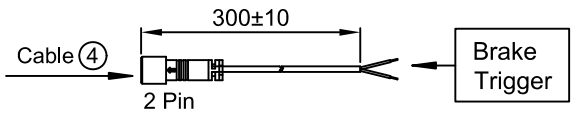
Cable ④



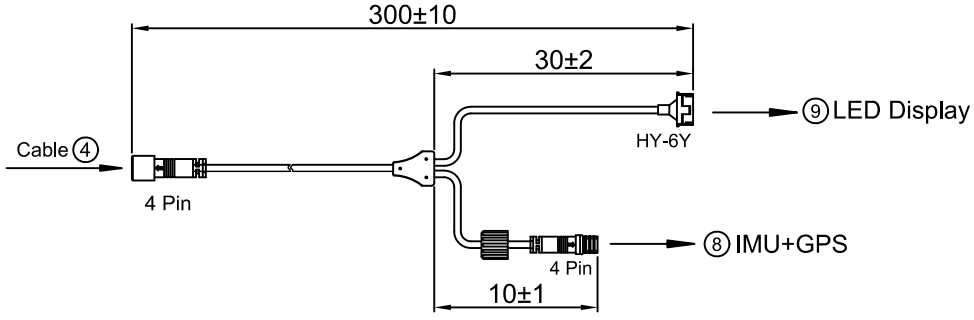
Cable ⑤



Cable ⑥



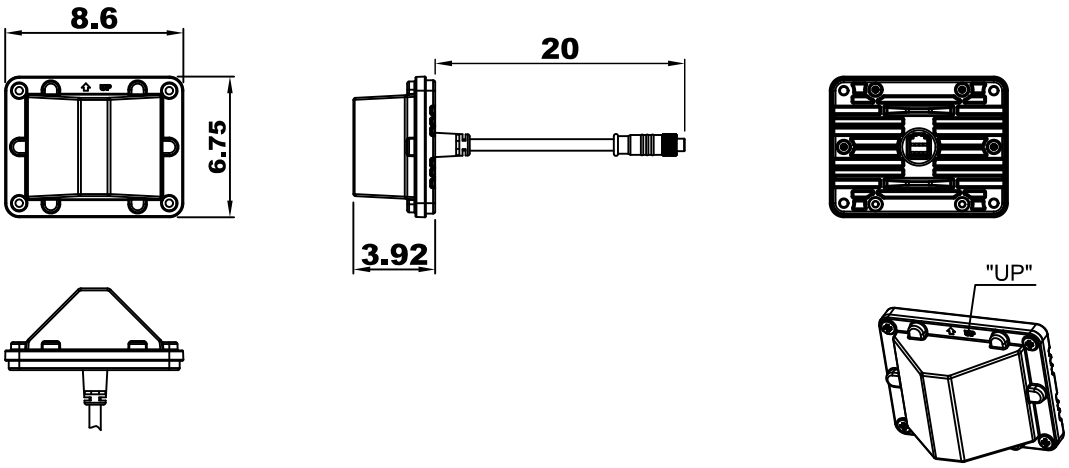
Cable ⑦



PARTS AND ACCESSARIES

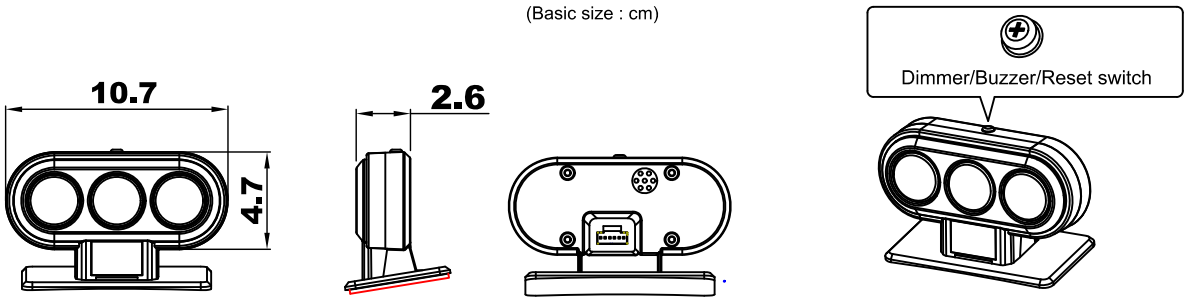
Front / Side radar

(Basic size : cm)



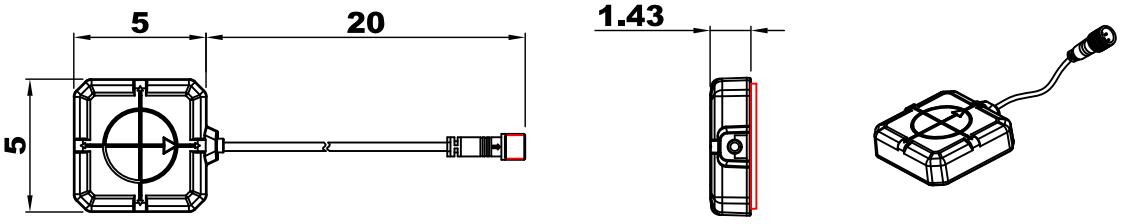
LED Display

(Basic size : cm)



IMU+GPS

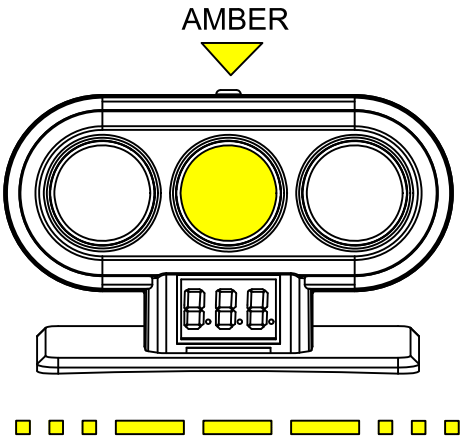
(Basic size : cm)



MALFUNCTION

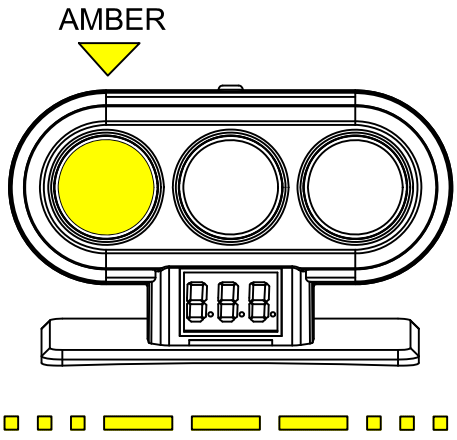
WARNING

FRONT SENSOR



(S.O.S)

SIDE SENSOR

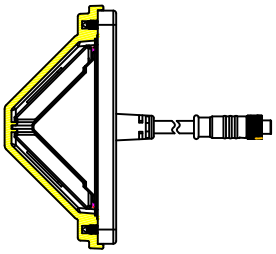


(S.O.S)

MALFUNCTION WARNING

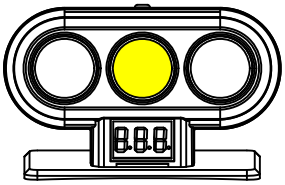
FRONT SENSOR

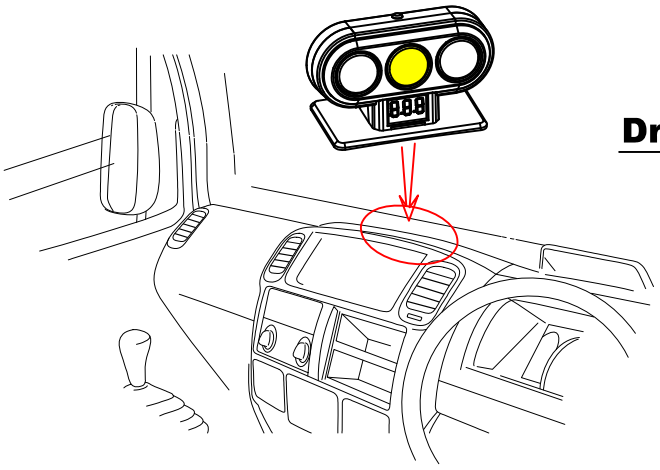
MALFUNCTION

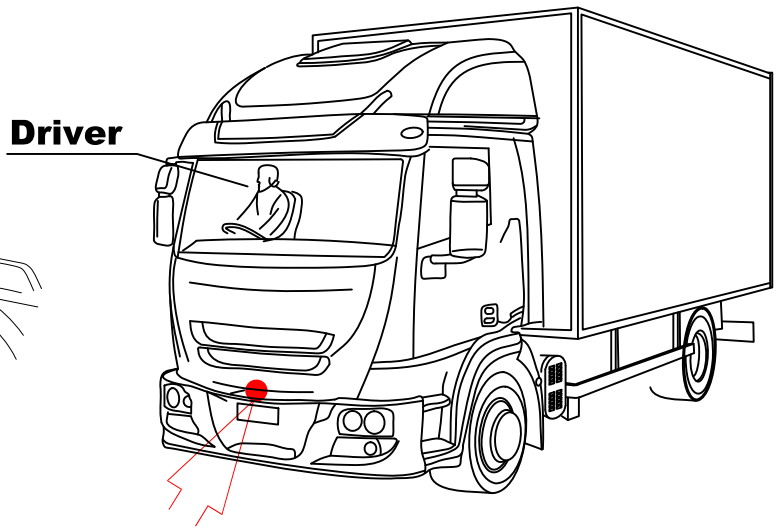


(S.O.S)

AMBER



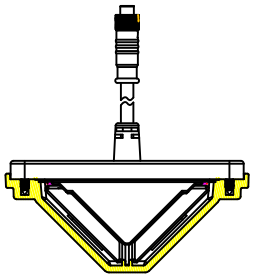




MALFUNCTION WARNING

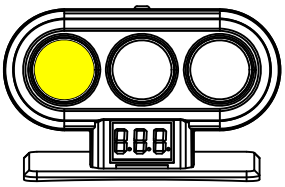
SIDE SENSOR

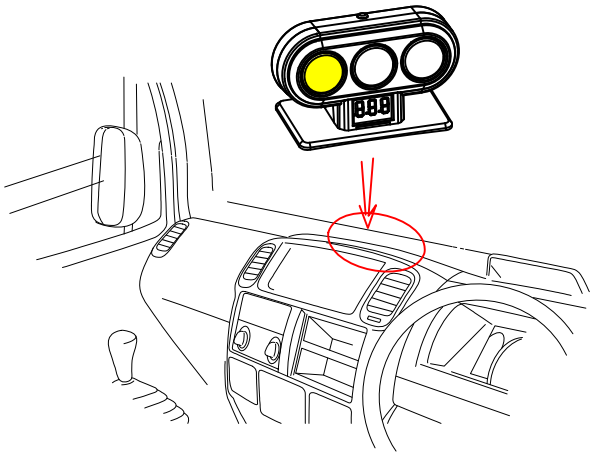
MALFUNCTION

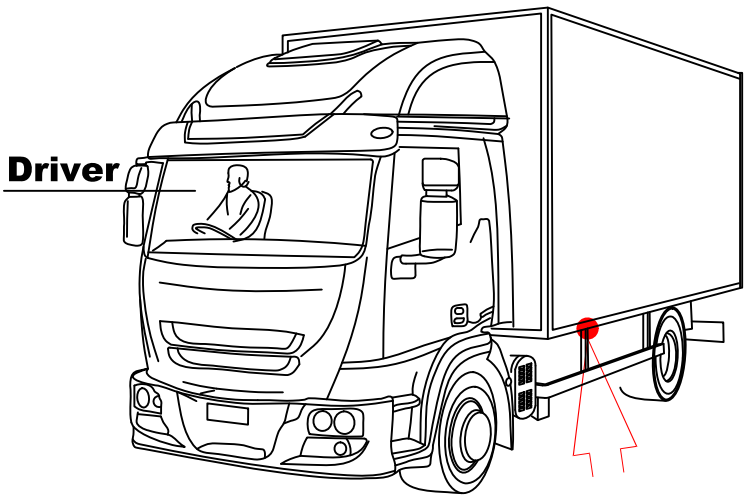


(S.O.S)

AMBER

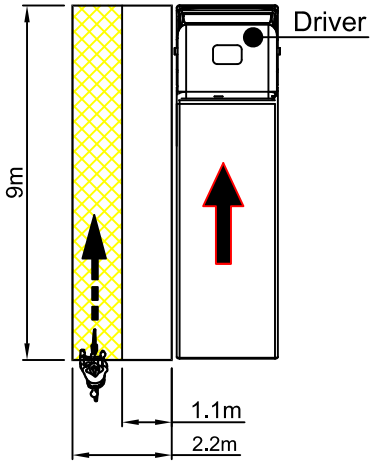


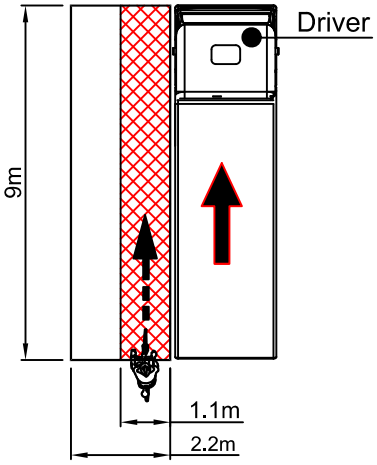


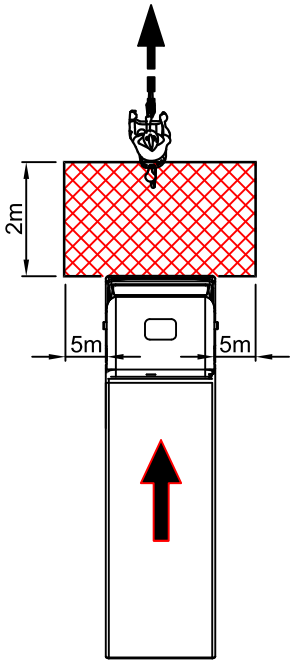


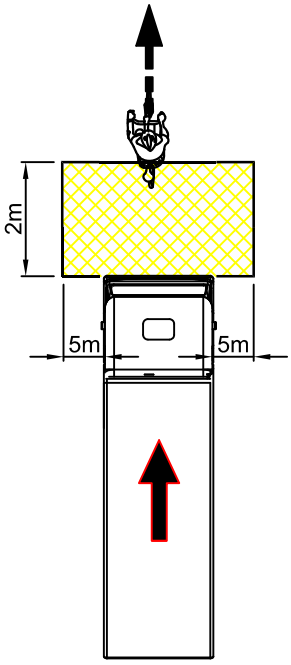
MOVING AND STATIOANARY

RANGE COVERAGE

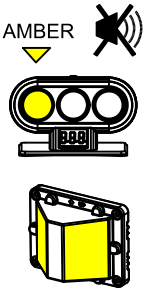
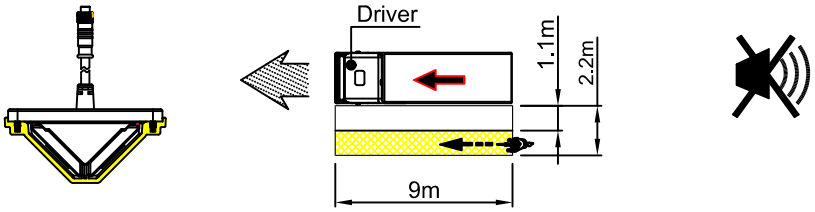
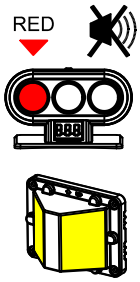
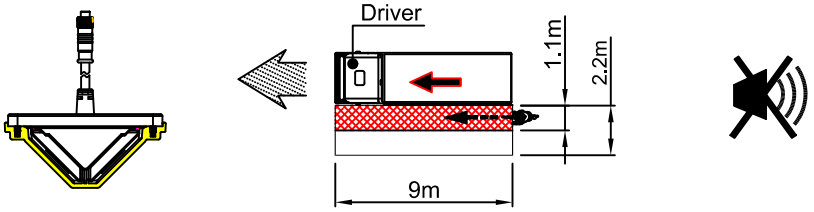




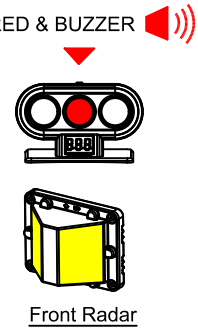
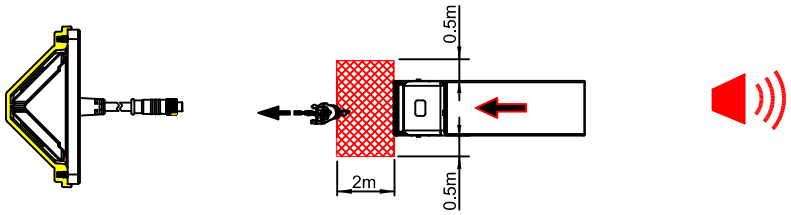
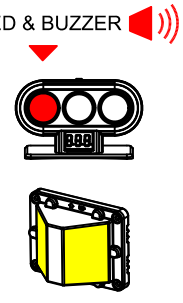
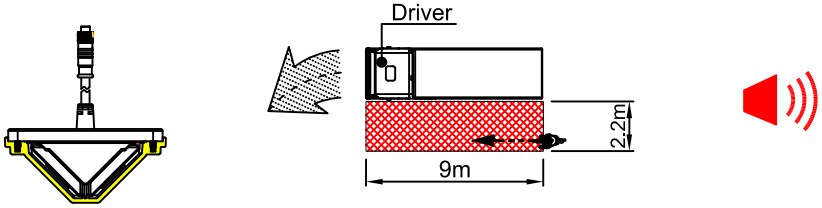




SPEED: 18±2 MPH

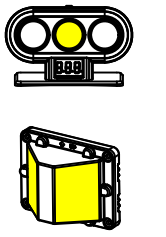
AMBER  Side Radar	**MOVING** 
RED  Side Radar	**MOVING** 

SPEED : 0 < V ≦ 3 (MPH)

RED & BUZZER  Front Radar	**MOVING** 
RED & BUZZER  Side Radar	**TURNING** 

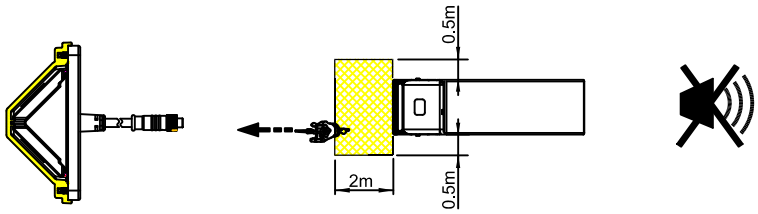
SPEED : 0 (MPH)

AMBER

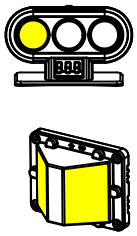


Front Radar

STATIONARY

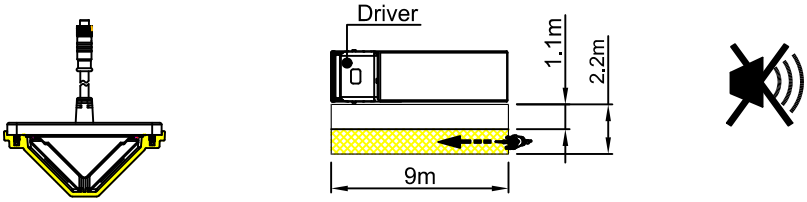


AMBER

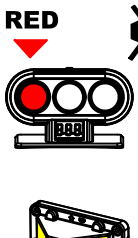


Side Radar

STATIONARY

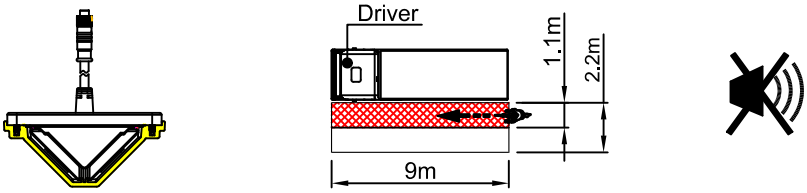


RED



Side Radar

STATIONARY



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and(2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure StatementThis equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co - located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance 25cm between the radiator& your body.

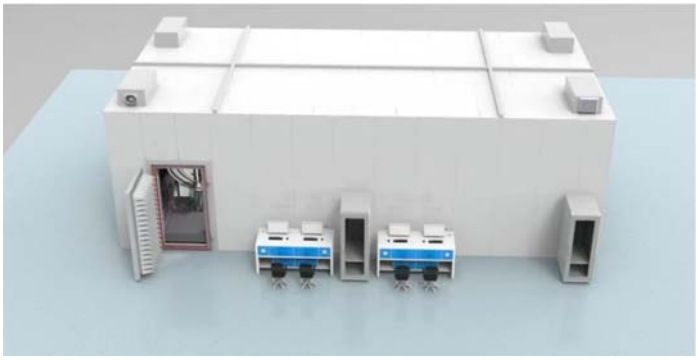
Q Global Solutions(xiamen)Electronics Crop.
Floor 3,4,5, No.195,Simingyuan,Tong'an Collective Industrial Park,Tong'an District,xiamen,Fujian 361100,China.

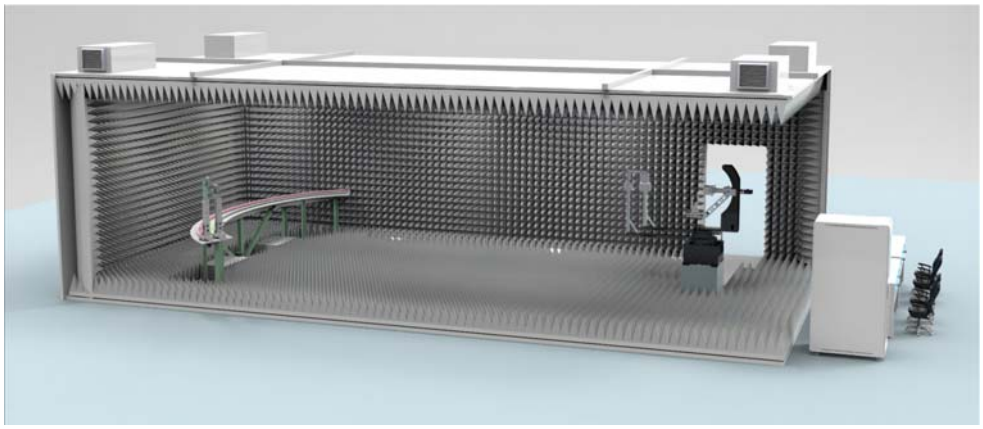
PRODUCT PARAMETER

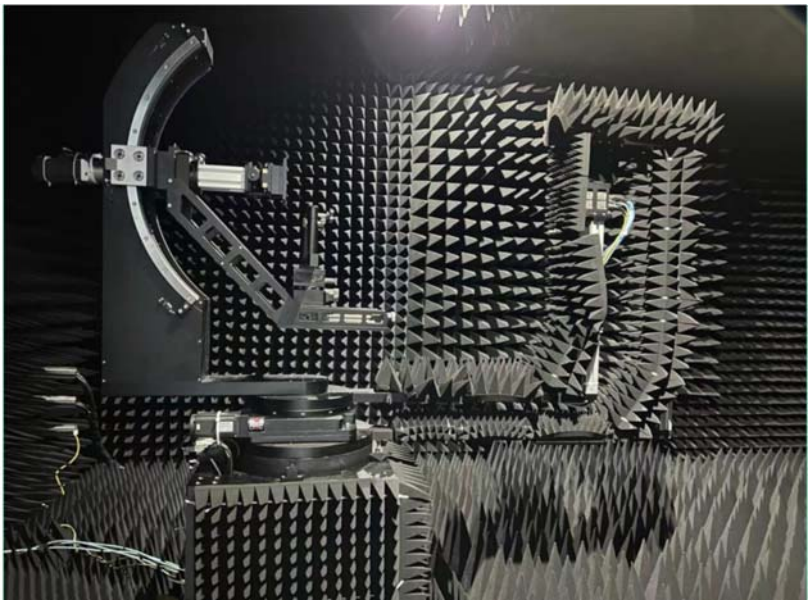
NO	Characteristics	
1	Modulation Mode	FMCW
2	Frequency band	77-81GHz
3	Output Power of Eu	38.59dBm
4	Horizontal angle coverage	180°
5	Pitch angle coverage	±25
6	Detect range	40m
7	Distance resolution	0.250
8	Detect accuracy	0.301
9	Speed range	-100MPH~ +100MPH
10	Velocity resolution	0.17m/s
11	Speed measurement accuracy	0.33m/s
12	Data update rate	50Hz
13	Maximum number of detection objects	64

NO	Basic parameters	
1	Working voltage	12/24V works normally,the light flashes.
2	Power dissipation	≤5W
3	Unit size	8.6*6.75*3.92 cm
4	Weight	150g
5	Storage temperature	-40°C ~ 85°C
6	Operation temperature	-40°C ~ 85°C
7	Protection grade	IP67

RADAR Antenna Direction Testing / mmFMCW Module Calibration and End Of Line (EOL) Production Chamber

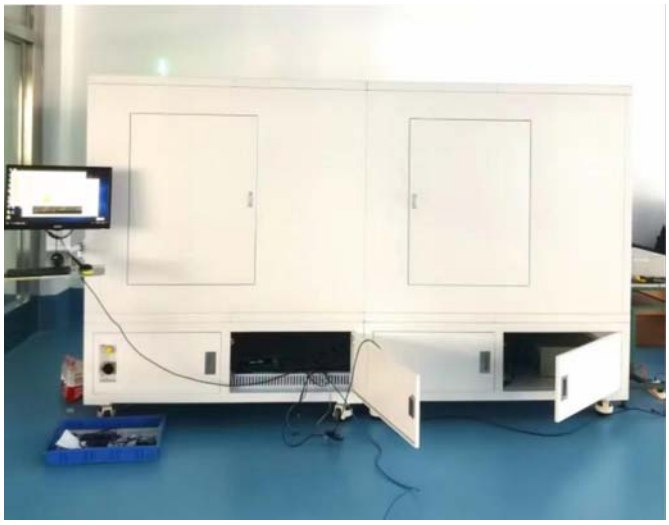


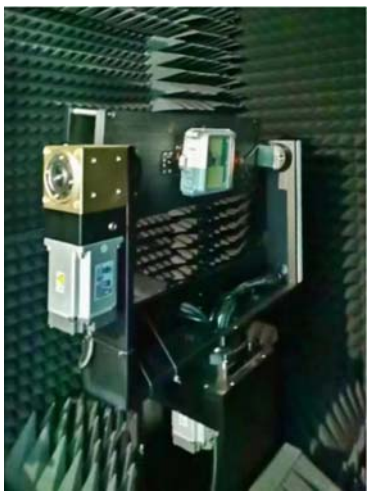


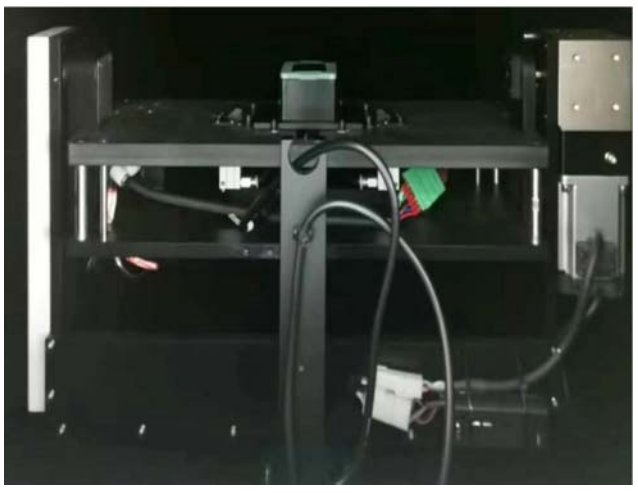


CATR (Compact Antenna Test Range) Anechoic Chambers

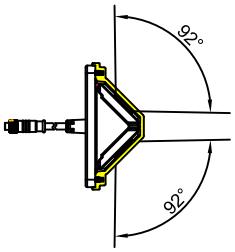
A Compact Antenna Test Range (CATR) allows electrically large antennas to be measured at a significantly shorter distance than would be necessary in a traditional far-field test range.





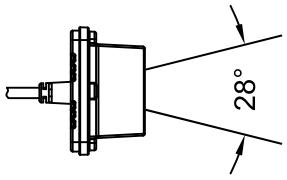


Beam Patterns (Horizontal)

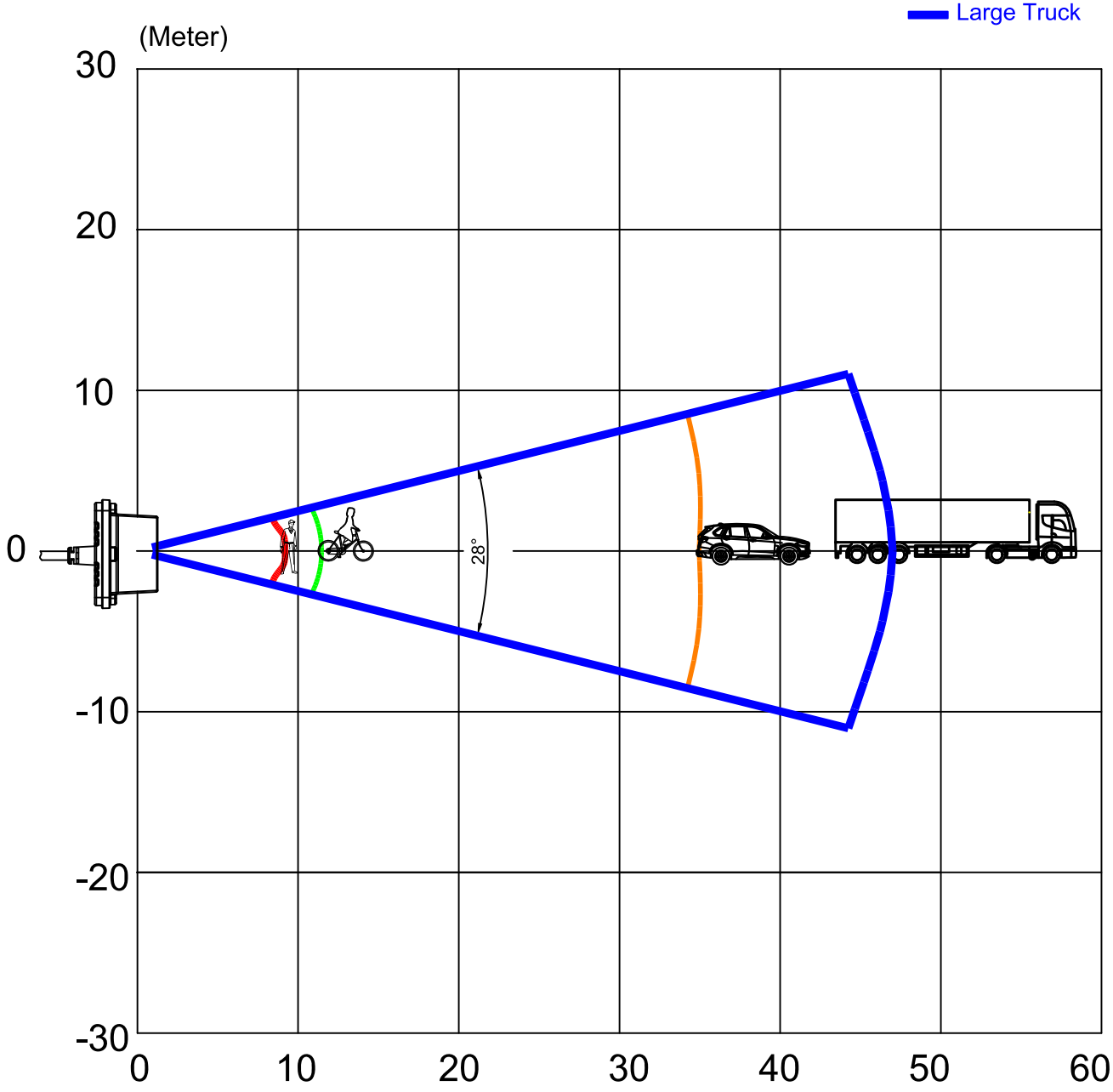


Horizontal Beam Angles

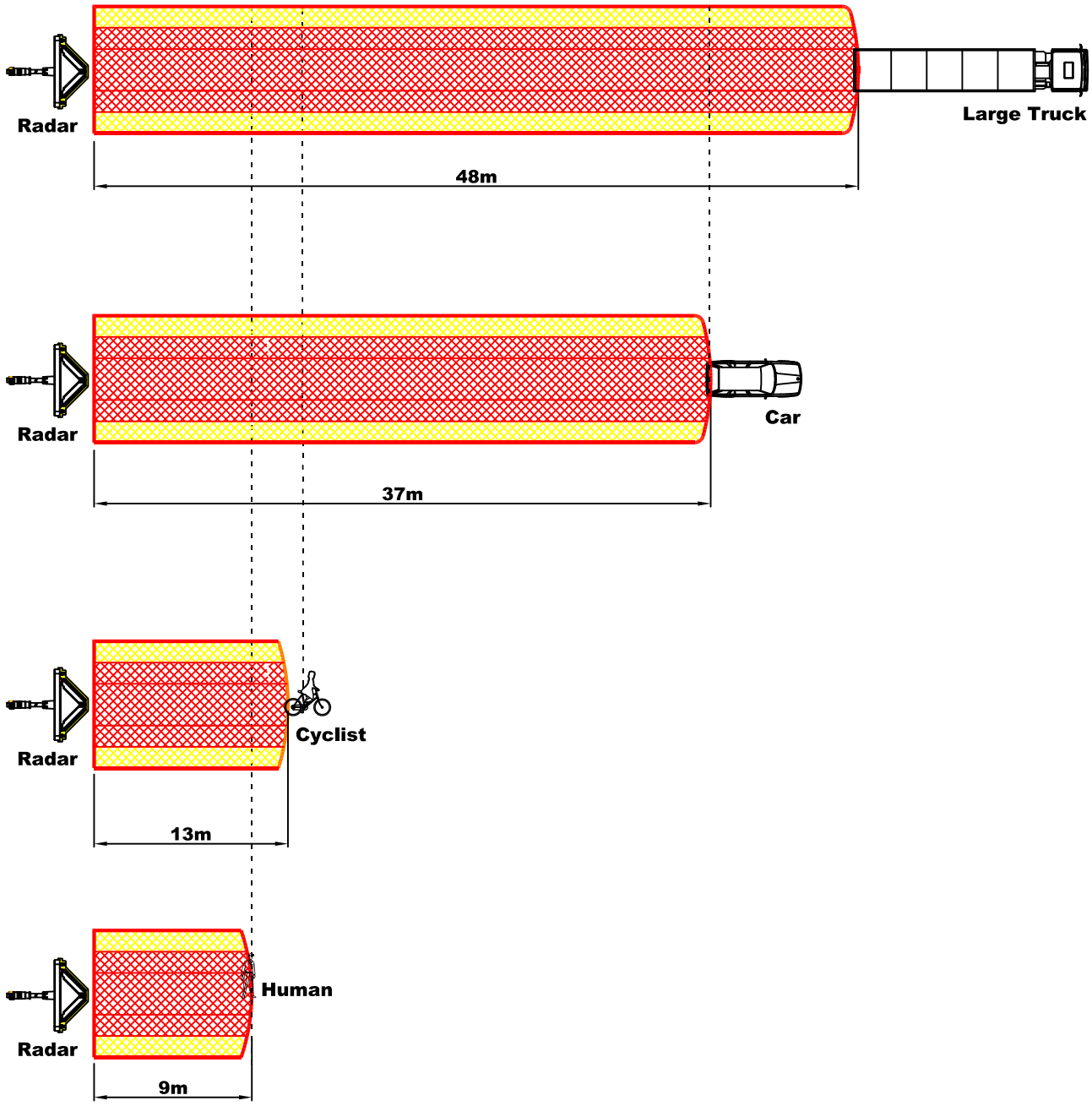
Beam Patterns (Vertical)



Vertical Beam Angles



Detection Distances of Large Truck / Car / Cyclist / Human being



Please contact us for more information:

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Q Global Solutions (Xiamen) Electronics Corp.

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