



PANORAMIC VIEW MONITOR (PVM)

OWNERS MANUAL



Please read this manual for proper operation and keep it for future reference.

Table of Index

1	What is PVM.....	1
1.1	Background / Introduction	1
1.2	Images	1
2	PVM Features.....	1
3	PVM Operation	2
3.1	Gear : Reverse Mode (R)	2
3.2	Gear: Parking / Neutral / Drive Mode	3
4	Caution	5

Panoramic View Monitor

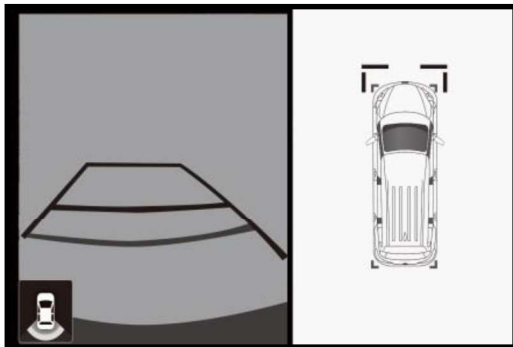
1 What is PVM

1.1 Background / Introduction

Panoramic View Monitor (PVM)
PVM System has 4 cameras installed at front / rear / left / right side of the car, where its 360-degree bird's eye view is displayed on the DVD-AVN/AVX for guidance of blind spot areas against the car.

1.2 Images

PVM system is able to display front / side / Rear camera view with 360-degree view of your car surrounding.



2 PVM Features

- a. Panoramic view monitor seamless image + front / back view dual model.
- b. PVM guide line design, seizing distance between periphery obstacles and vehicle itself.
- c. Front/rear guideline refers to car width design to facilitate reversing mode more.
- d. Waterproof wide angle camera mode.
- e. Front display with mask to avoid driver to drive only via display, leading to danger.

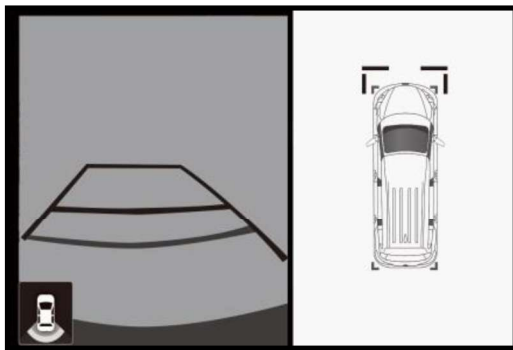
Panoramic View Monitor

3 PVM Operation

Turn the system on by short press on the switch, and long press (5 seconds) to turn off.

3.1 Gear : Reverse Mode (R)

When Reverse Gear is engaged, the DVD-AVN/AVX will display panoramic image specified for reversing mode in 2-3 seconds automatically (please refer to the image below).





- a. Left screen displays exact reversing view .
- b. Right screen display panoramic view at reversing mode to assist driver.
- c. Car-assisting line has blue (2.7 M),blue (1M), and red

(0.5M). Please note the distance with periphery obstacle.

- d. Right panoramic image is a simulated aerial view.

When the obstacle is close to the car, please stop the car and confirm actual secure distance before you go.

In Reverse mode, you may press the view switch to choose rear view + 360°  or wide rear view 

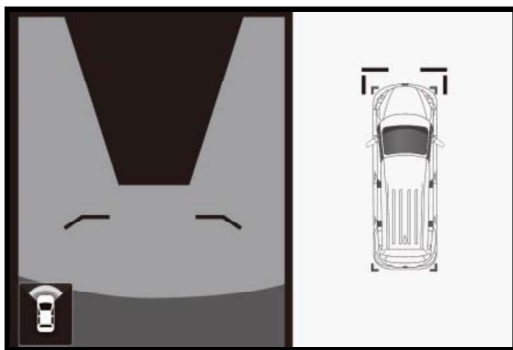
Note

Please carefully check the surrounding as some blind spot zone will not be captured by the camera.

Panoramic View Monitor

3.2 Gear: Parking / Neutral / Drive Mode

The shift lever should be at P/N/D when the car speed is under 20km/h and it will display PVM-ahead image mode.



- a. Left screen : Front view
- b. Right screen :Panoramic view

Note

Image show is to aid in identifying periphery obstacle during low-speed driving.

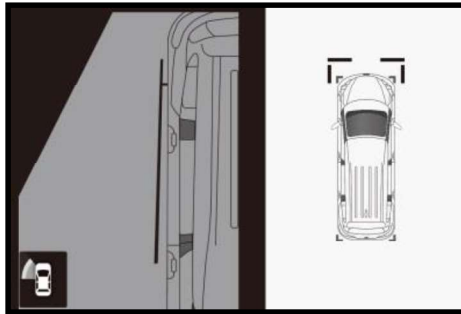
- c. The front inverted overlapping masking area is to avoid the driver driving the car only by the display, due to safety issues.

- d. The front guide line has blue (0.4 m) lines. Please pay more attention to the distance with periphery obstacles when you drive
- e. Right Screen: (Panoramic view) Image is a simulated aerial view. When the obstacle is close to the car, please stop the car and confirm actual safe distance before driving.
- f. The blue part in the car body image is where the car collides with the obstacle easily. Please pay attention when you drive. The blue warning line refers to the place distanced from the car by 20 cm.
- g. In left/right side of vehicle view, it displays the first half of left/right side of the vehicle view (driver' s visual blind area)

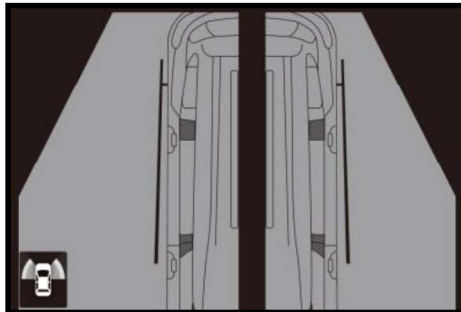
Panoramic View Monitor

- h. When you reverse, please use left/right side mirror to check surrounding area. When you drive forward slowly then 20km/h, you may press the PVM switch button to choose:

- LH side view + 360° view



- LH/RH front side view.



Note ※IMPORTANT

PVM only available for car speed is under 20km/h (D/N/P mode)

Driving Mode:

PVM view will go to audio system when the car speed is higher

than 20km/h; Please press PVM switch to return to PVM mode when the car speed is under 20km/h.

P/N/D Mode:

When the Gear shift is at P/N/D, only PVM front view will be displayed, and manual toggle mode does not work for rear view mode.

P/N Mode:

When using DVD-AVN/AVX, be sure to turn off the PVM function by long press for 5 seconds.

Under any condition if you press PVM switch, the car audio screen does not show PVM function, please follow the steps to operate:

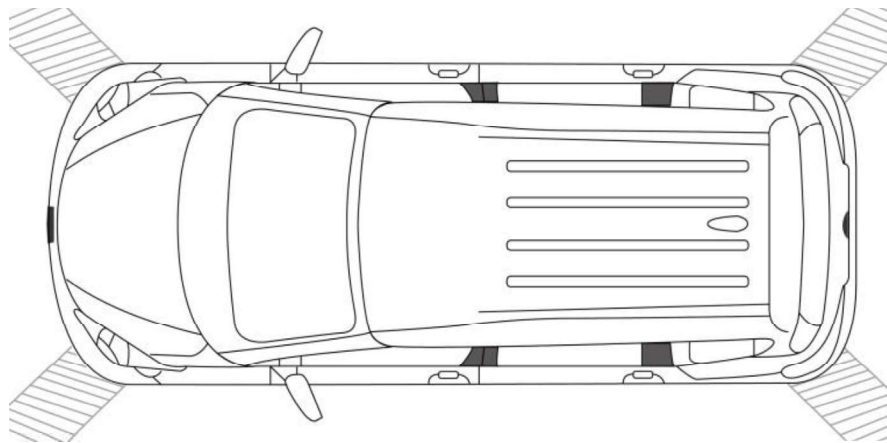
- Long press switch button for 5s and release button
- Press switch button again, the PVM function will turn on and show on screen.

Panoramic View Monitor

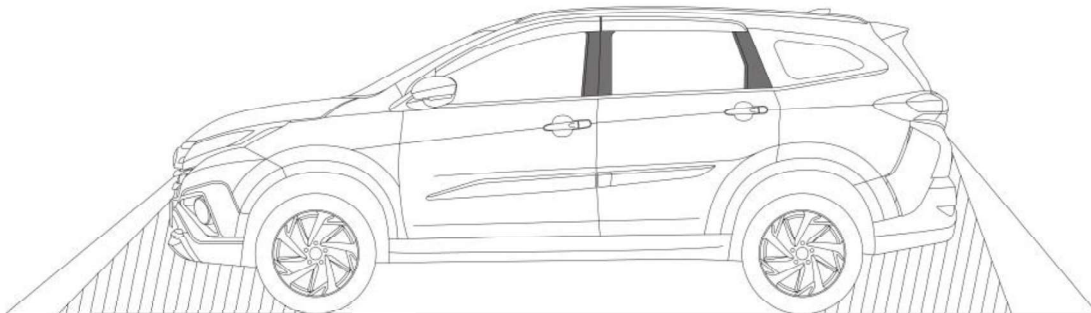
4 Caution

- Blind spot

The aerial panoramic image comes from the use of optical principle, where intersection parts of four cameras are for image clipping process to build panoramic effect, hence, four connection parts of images listed below would cause image to temporarily disappear and drivers are requested to pay special attention.



↑ BLIND SPOT



↑ BLIND SPOT

Objects may not be detected from some angles. The objects underneath the bumper or on the ground may not be detected when they are displayed at front or rear viewing angle (Grey parts in oblique lines)

Panoramic View Monitor

- a. The images from four cameras are in color difference under versified light source due to light incoming angle discrepancies, which is normal.
- b. The guide lines in the front left/right side of car mode are aligned due to shooting position/angle difference from left/right rear mirrors; however, mild staggered position of doors is normal.
- c. PVM display is constricted, where the further part from the car body will present image deformation, which is normal.
- d. PVM camera are precision parts. Do not hit camera, which might cause abnormal situations like failure or damage.
- e. PVM is to aid and reinforce display of periphery blind areas against the car body. When you drive, you still must make use of the left/right side mirrors and rear view mirrors.
- f. When you reverse, some conditions (Ex.: weather, light) might constrict image. Do not drive your car only by the display.
- g. PVM image might be affected or incorrect with the change of tire size; hence, we do not suggest you to change tire size.
- h. Heavy impact or displacement from collision might cause PVM image to diverge right or left, worsening image connection. To resume normal operations, image calibration and part replacement may be required.
- i. PVM uses images that were captured for connection. When tire pressure and load is changed, different height of car will

Panoramic View Monitor

affect the ground image that camera has captured, leading to some poor match of connection, which is normal.

- **Care and Maintenance**

Do not use high-pressurized water column to wash PVM cameras to avoid damage