

## Birds eye camera

### The views

This is the base picture showing the Morelo parked on our drive. Please note, the bollard at the rear wheel – positioned so I know where the turning point is. Note the low walls and the small bricks delineating the grass lawn and the driveway.



I have my camera mounted behind the dash. I was given the option to have it fixed to the A frame. The 7 inch digital display sits neatly on the dash INLINE with the left driving mirror and looking up the left road / motorway lane markings.

There is a 10-inch-high res monitor coming out soon. I will upgrade and bring the monitor forward a little



This shows the screen page control which I had fitted so it's not a stretch and in my easy arm reach – so its in the same sweep as when I sue the retarder control.

Obviously, this can be placed anywhere.

This control enables you to page through the pre-set screen displays so you can choose a particular view.

**PLEASE NOTE** – the system is wired into my indicators, hazards and reverse. The screen dynamically changes to utilise the side camera on turn indicator i.e. if I indicate left, the left camera and the front view camera operate.

You pre define what your standard view is i.e. what comes on when the ignition goes on.



There is a 180 deg fish eye camera mounted "centrally" on each face of the van. Including the back. The images from each of the 4 cameras is "knitted together" by the ecu to create the birds eye view. I will get the aluminium camera bodies painted when I have some matching paint.



Here is the top view. In this picture, the van door is open creating the distorted view of the door. Initially disconcerting, but not noticed in operation as we drive with the door closed. More importantly you can see the beacon / cone and the walling, bushes / plants and delineation of the lawn and drive. This is NOT the actual top of the Morelo. The way the system is set up is to define the outline of the van accurately, remove parallax and then superimpose a top view on the van outline. I choose this one as the solar panels align with the rear axle (for turning) and I can see the waste pipe line.



This is the reverse camera and like on the Morelo there are 2 reverse views. One for reversing and one for driving. The reverse grid is configurable. I have set my red marker at 5 cm off the back of the van. The yellow grid line is at 1m and the green at 2m.



I've initiated the left indicator and the view has changed. I've chosen to have the birds eye in the right pane on all pages. So, when overtaking abroad, I indicate and you are immediately warned if there are any cars overtaking in your blind spot.



I've put the right indicator on.



Image from set up. This shows birds eye and front view. You can see the wipers. This was not the final set up as the van outline was not correct.