

EVT

EuroNCAP Vehicle Target



Developed in conjunction with Thatcham,
Approved by EuroNCAP



EVT EuroNCAP Vehicle Target

The MoshonData EuroNCAP Vehicle Target (EVT) was developed to simulate the rear end of a standard production car. It uses the current standard VW vehicle image and is suitable for RADAR, LiDAR and camera based systems.

Manufactured to EuroNCAP specifications

The cover is printed with the EuroNCAP specific image of a VW car and incorporates reflective elements to aid LiDAR based technology. MoshonData has made some approved modifications to improve the assembly and use of the EVT. A radar absorbent foam section is sewn into the bottom to avoid it being lost or forgotten. The cover is quickly fastened at the rear using a stretch cord and toggle method and the same method is used to tension the front and rear faces to the balloon.

The EVT EuroNCAP Vehicle Target provided by MoshonData conforms to the EuroNCAP specifications as defined in the official AEB test protocol.

- ✓ AEB City
- ✓ AEB Inter-Urban
- ✓ FCW

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The EVT consists of 4 main parts:

1. Balloon Car, MD-1310-BC-1,

This is an inflatable balloon capable of impacts at 50kph. It comes complete with radar absorbent foam and 12 electric pump.

2. Cover MD1310-COV-1,

This is the outer cover with the image of the VW and the added reflective material to ECE104 standard for LiDAR detection. Also sewn in is the radar absorbent foam to disguise the tray.

3. Tray/Standing Frame, MD-1310-T-1,

This is the tray which supports the Target allowing it to move along the ground when hit.

4. Bumper Element, MD-1310-BE-1,

Foam insert which gives contour to the Target which contains radar reflective component.

All four items together make up the EVT and make it suitable for EuroNCAP AEB City tests, CCRs and Inter-Urban tests as well as CCRm & CCRb.

The covers are prone to wearing and can be bought as a direct replacement for existing covers. They already contain the radar absorbent foam section.

Additional accessories

- Wheels for both the standing frame and the towed inter-urban towing rig
- Radar absorbent foam
- Radar reflective material
- 77Ghz radar corner reflectors
- ECE104 standard LiDAR reflective material

Specifications

Impact Speed	50kph
Radar Signature	77ghz
Pressure	250mbar

Options

The cover can be printed with customised images to allow car manufacturers to perform tests with their own vehicle brands. Whilst not suitable for official EuroNCAP testing, it will conform to all standards and are suitable for camera, radar and LiDAR.

A cheaper demonstration version will be released soon which consists of a foam inner part and has a lower impact speed. It will be suitable for demonstrating AEB systems on vehicles.

To find out more about the MoshonData EVT, contact Steve Boyle today
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