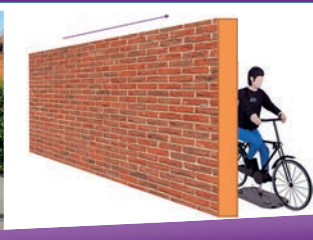# Moshon DATA

Your partner for vehicle targets

Whether you need a Pedestrian Target to Euro NCAP standard or non standard...

... MoshonData is your one-stop-shop for all VRU target solutions.

"Imparting Knowledge"

2022

www.moshondata.com

MD-VRU

Pedestrian Targets for ADAS testing (PT VRU)

MD-VMC
Vespa Scooter with rider

MD-ES
E-Scooter with rider

MD-SMC
Motorcycle street bike with rider

MD-PED-C.2
Child Pedestrian

Standard Euro NCAP Pedestrian Target (PT)

The following requirements need to be fulfilled to enable a proper recognition with regards to visual and radar detection:

- Dimensions conform to ACEA/Euro NCAP specifications for both adult & child

- Low reflective skin surfaces

- Black coloured head hair texture

- RCS and IR properties fit specification boundaries

- Available as Adult, Child and Teenager sizes

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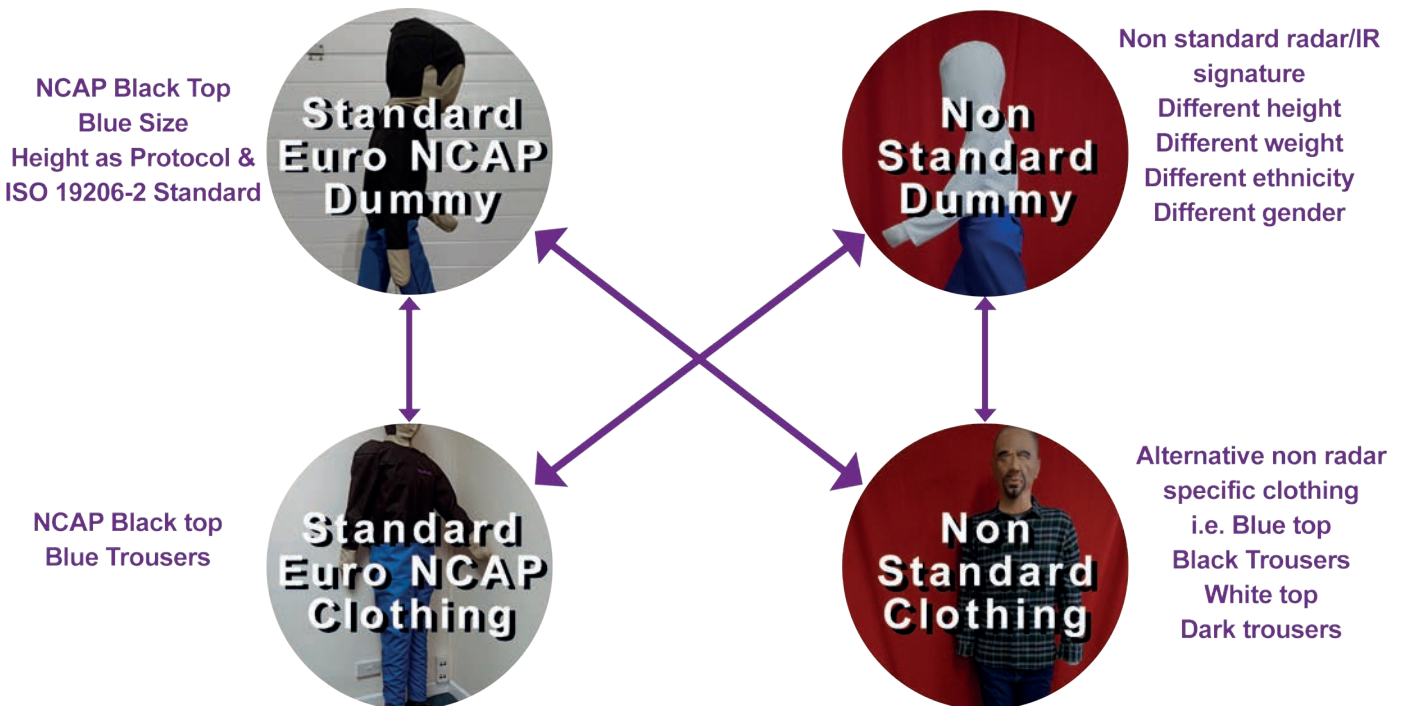
Non-Standard Pedestrian Target Clothing

No particular radar/IR signature - but realistic of an equivalent real world person specification.

We celebrate everyone is different –
We are not all the same...
But all need protecting!!

-))) Different height, weight (Portly)
-))) Ethnicity
-))) Size, Build
-))) Gender

MD-VRU Pedestrian Bundles for ADAS testing

NCAP Black Top Blue Size Height as Protocol & ISO 19206-2 Standard

Standard Euro NCAP Dummy

Non Standard Dummy

Non standard radar/IR signature Different height Different weight Different ethnicity Different gender

NCAP Black top Blue Trousers

Standard Euro NCAP Clothing

Non Standard Clothing

Alternative non radar specific clothing i.e. Blue top Black Trousers White top Dark trousers

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MD-ES
E-Scooter and rider soft target for AEB testing

Developed to simulate a pedestrian riding an E-Scooter.

- 50 kph Impact

- All in one E-Scooter target combined with NCAP spec pedestrian

- Height adjustable wheels for ground contact, enabling rotation

- Durable yet soft structure design that maintains integrity when hit

- Fast setup, easy to use and lightweight Compatible with most LP platforms using 200 x 250 mm magnet spacing

- Comparable recognition for Radar, LiDAR, IR and camera based systems

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MD-VMC
Vespa Style Scooter PTW and rider soft target for AEB testing

Developed to simulate a scooter and rider.

- On ground wheel rotation for radar Doppler affect

- Lightweight yet robust soft foam core

- Replaceable parts

- Compatible with most LP platforms using 200 x 500 mm spacing

- Wheel rotation on the ground for radar Doppler affect

- Comparable recognition for Radar, LiDAR, IR and camera based systems

- Built to ISO 19206-5 standard

- Suitable alternative for NCAP AEB VRU testing

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MD-SMC
Streetbike Motorcycle PTW and rider soft target for AEB testing

Developed to simulate a UNECE category L3 streetbike PTW and rider.

- On ground wheel rotation for radar Doppler affect

- Lightweight yet robust soft foam core

- Replaceable parts

- Compatible with most LP platforms using 200 x 500 mm magnet spacing

- Comparable recognition for Radar, LiDAR, IR and camera based systems

- Built to ISO 19206-5 standard

- Suitable alternative for NCAP AEB VRU testing

LiDAR point cloud comparison between Motorcycle and MD-SMC target.

LiDAR point cloud of Motorcycle and MD-SMC

MD-SMC Target   **Motorcycle**

"Imparting Knowledge"

MD-MC-R-CN (C-NCAP)
Scooter and rider soft target for AEB testing

Developed to simulate a scooter and rider.

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Obstruction Foam Wall

Foam 3D walls to replicate Brick, Building Fronts or Custom Designs
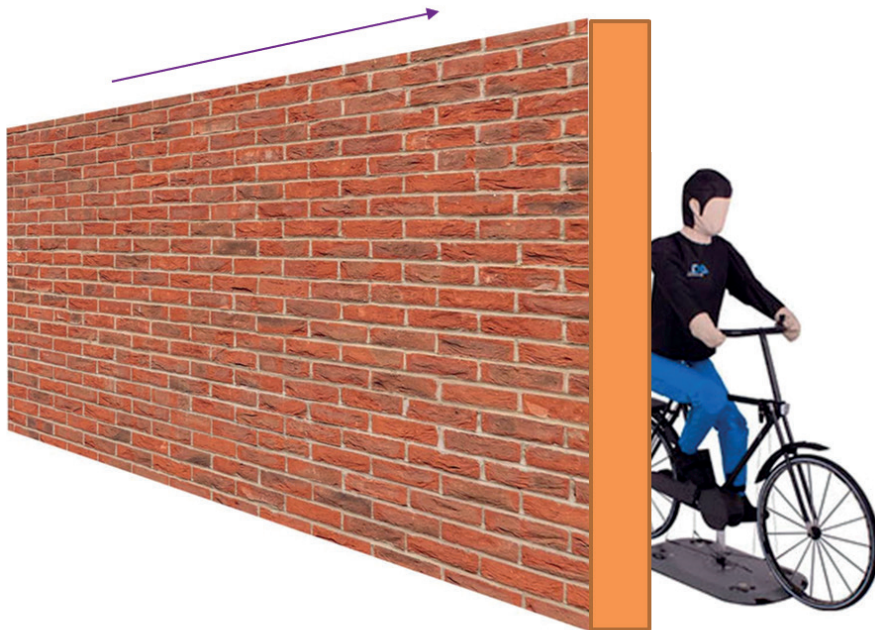
RCAR MD-Cyclist coming soon.

))) 8.8 m long obstruction wall

))) Free standing on weighted base

))) Modular design – 4 x 2.2 m sections
Custom sizes available

))) Suitable for use in the Euro NCAP AEB VRU test protocol

))) Default brick wall image can be replaced with any image
I.e. Shop fronts, houses etc.

))) Radar Cross-Section (RCS) signature analysis (one section): average at 50m range: 23.80 dBm2*
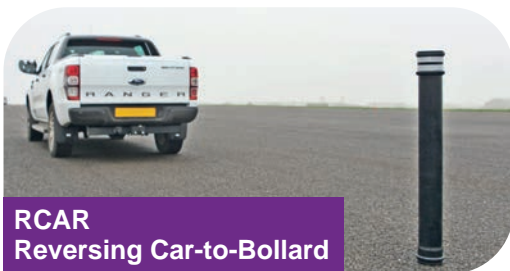* Full RCS test report is available from Moshon Data by request

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Roadside Furniture (RCAR) (ISO standard where applicable)

Soft targets designed to create everyday road scenarios.

**RCAR
Reversing Car-to-Bollard**

**RCAR
Reversing Car-to-Pillar**

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