UFOnano®
TARGET CARRIER

The UFOnano® target carrier was developed specifically for pedestrian and bicycle testing. Its unique 2+2-wheeler design enables highly agile movements of pedestrian and bicycle targets, enabling it to simulate complex and realistic scenarios for VRU active safety system tests.

The split design enables the placement of the target with a height of only 25mm. Despite the reduced size of the **UFOnano®**, it retains the same robustness as the other UFO target carrier models for added stability, especially in windy conditions.

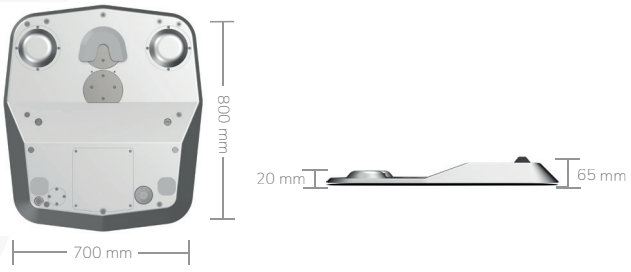
This versatile new device features the same familiar design as the Humanetics UFOpro® target carrier, however its compact size and steering setup allows it to drive curves of every radius and even turn on the spot.

It can easily accommodate a pedestrian test target with a shoulder width footprint barely larger than that of a real person, allowing multiple dummies to 'swarm' together with the closest shoulder-to-shoulder distances on the market, while mimicking individualized behavior.

Its modern stealth design featuring a sleek, robust metal surface makes the **UFOnano®** invisible to the test vehicle's radar – a necessity for maintaining realistic test conditions.

UFOnano® with Pedestrian Adult target

UFOnano® with Playing Child target



Dimension of UFOnano®

See the UFOnano® target carrier in action.

UFOnano® TARGET CARRIER

SPECIFICATIONS

DIMENSIONS	Transportation Size	700 x 800 mm
	Test Ready Size	700 x 800 mm
	Chassis Height	15 - 65 mm
	Test Ready Weight	25 kg
	Overrun Capacity	45 tons
	Clearance	10 mm
DYNAMICS	Maximum Speed Forward	20 km/h
	Maximum Longitudinal Acceleration	2 m/s²
	Maximum Longitudinal Deceleration	3 m/s²
	Maximum Lateral Acceleration	1.5 m/s²
	Minimum Turning radius	0 m (turn on spot)
ENERGY	Batteries Included	4
	Battery Technology	Lithium Ion
	Battery Slots	2
	Battery Swapping Time	2 minutes (hot swappable)
	Battery Set Charging Time	90 minutes
	Battery Life Time (common NCAP Testing)	Half testing day (up to 30 NCAP scenarios)
ACCURACY	Speed Control Accuracy	0.2 km/h
	Speed Measurement Accuracy	0.05 km/h
	Accuracy	in line with ISO 19206-7
	GNSS Unit Oxford	OEM1000v2
	GNSS Unit SBG	Ellipse-D
AREA OF APPLICATION	Radar Cross-section	in line with ISO 19206-9 / 19206-5 / ISO 19206-4 / ISO 19206-2
	Drive-over Capacity	Passenger vehicles Commercial vehicles Heavy Duty vehicles
	Targets (main use)	Pedestrian Adult Target Articulation (EPTa) Pedestrian Child Target Articulation (EPTc) Bicyclist Adult Target (EBTa) Bicyclist Child Target (EBTc) Playing Child Target (PCT) Standing Scooter Target (SST)
CONDITIONS	Operation Temperature Range	-5° C to 50° C
	IP Rating	IP66
	Relative Humidity Range	0%-95%, not condensing
	Recommended Storage Temperature	5° C to 25° C

KEY FEATURES

- Hot swappable batteries
- Speeds up to 20 km/h
- RTK DGNSS system for high accuracy
- On-the-spot turning for realistic pedestrian behavior
- Simple and reliable design
- Special stealth outer shell design for optimized radar signature
- Shoulder-to-shoulder testing to 500mm
- Weather resistance due to waterproof design

HUMANETICS

UFOnano®
TARGET CARRIER

UFOnano® – TARGET OPTIONS

Bicyclist Adult Target (EBTa)[2]

(UFO-1-5030)

Bicyclist Child Target (EBTc) [1]

(UFO-1-5035)

Pedestrian Adult Target Articulation (EPTa)[1]

(UFO-1-5050)

Pedestrian Child Target Articulation (EPTc)[1]

(UFO-1-5070)

Playing Child Target (PCT)[2]

(UFO-1-5180)

Standing Scooter Target (SST)[2]

(UFO-1-5190)

Icon designates targets that are Euro NCAP approved with the UROnano®.

[1] Image 4activeSystems GmbH
[2] Image Messring GmbH