

UFO nano

TARGET CARRIER

The **UFO nano target carrier** was developed specifically for pedestrian and bicycle testing. Its 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 UFO nano, it retains the same robustness as the other UFO target carrier models for added stability, especially in windy conditions.



UFO nano with Playing Child target

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.

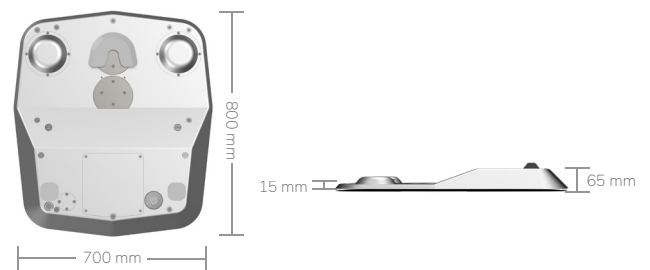
It can easily accommodate a pedestrian test target with a shoulder width footprint barely larger than that of a real person, allowing multiple dummies to 'swarm' together with closest shoulder to shoulder distance and mimic individualized behavior.



UFO nano with Pedestrian Adult target

Humanetics UFObase Control Software for complex testing using different robots from the Humanetics family.

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



Dimension of UFO nano



See the UFO nano target carrier in action.

UFOnano

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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 (per wheel)	3600 kg
	Clearance	10 mm
DYNAMICS	Maximum Speed Forward	20 km/h
	Maximum Longitudinal Acceleration	2 m/s ²
	Maximum Longitudinal Deceleration	3 m/s ²
	Maximum Lateral Acceleration	1.5 m/s ²
	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)	Full testing day (up to 60 NCAP scenarios)
ACCURACY	Accuracy	in line with ISO 19206-7
	GNSS Unit Oxford	OEM1000v2
	GNSS Unit SBG	Ellipse-D
AREA OF APPLICATION	Radar Crosssection	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 (EBT) Bicyclist Child Target Playing Child Target (PCT) Standing Scooter Target (SST)
OPERATING CONDITIONS	Operation Temperature Range	-5° to 40°
	Weather resistance	fully sealed electronics works under tough conditions
	Recommended Storage Temperature	5° to 25°

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**
- » **Robust metal construction** with ultra-low radar cross-section
- » **Special stealth outer shell design** for optimized radar signature
- » **Shoulder-to-shoulder testing** to 500mm
- » Weather resistance due to **waterproof design**

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UFO nano – Target Options



Bicyclist Adult Target (EBT)¹
(UFO-1-5030)
Euro NCAP approved with UFO nano



Bicyclist Child Target¹
(UFO-1-5035)



Pedestrian Adult Target Articulation (EPTa)¹
(UFO-1-5050)
Euro NCAP approved with UFO nano



Pedestrian Child Target Articulation (EPTc)¹
(UFO-1-5070)
Euro NCAP approved with UFO nano



Playing Child Target (PCT)²
(UFO-1-5180)



Standing Scooter Target (SST)²
(UFO-1-5190)

¹ Image 4activeSystems GmbH

² Image Messring GmbH