

UFOmicro

TARGET CARRIER

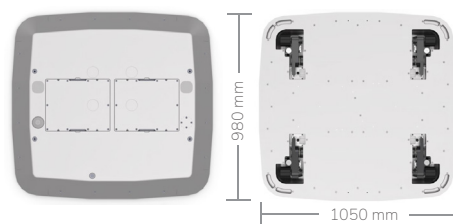
Being the latest addition to the active safety products, the **UFOmicro** target carrier was developed specifically for PTW (Powered Two Wheeler) and VRU (Vulnerable Road User) tests. To cover realistic road traffic conditions and behavior of road users, the **UFOmicro** can reach a speed of up to 90 km/h carrying a wide range of targets and can be used for heavy duty tests. With its mountable extension, it can carry bicycle and different pedestrian VRU targets with no effort.



UFOmicro with PTW target

Even being the most recent addition to the Humanetics UFO model range, the **UFOmicro** can be seamlessly integrated in the existing and proven Humanetics UFObase software environment. The configuration and testing of complex real life scenarios with up to ten robots can be done easily due to the seamless synchronization. Considering the important aspects of reliability and repeatability, the **UFOmicro** was designed with extremely high lateral and longitudinal accuracies for dependable and repeatable testing.

Radar measurements have been conducted to confirm the extremely low radar signature of the stealth design.



Dimension of UFOmicro

The target carrier is equipped with multiple motion data input and output interfaces and a highly accurate dual antenna DGNS system.

As with all other Humanetics UFO models, the **UFOmicro** is traversable and has the advantage of high-capacity, swappable batteries.



UFOmicro with Pedestrian Adult target

Extensions for VRU und PTW targets: The VRU Extension allow low above surface testing of only 25mm. The PTW extension is used to increase stability for high speed tests.



See the **UFOmicro** target carrier in action.

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SPECIFICATIONS		
DIMENSIONS	Transportation Size	1050 x 980 mm
	Test Ready Size	1050 x 980 mm
	Chassis Height	70 mm
	Test Ready Weight	85 kg
	Overrun Capacity (per wheel)	3600 kg
	Clearance	15 mm
DYNAMICS	Maximum Speed Forward	90 km/h
	Maximum Longitudinal Acceleration	4 m/s ²
	Maximum Longitudinal Deceleration	6 m/s ²
	Maximum Lateral Acceleration	3 m/s ²
	Minimum Turning radius	8 m
ENERGY	Batteries Included	2
	Battery Technology	Lithium Ion (LiFePO4)
	Battery Slots	2
	Battery Swapping Time	2 minutes (hot swappable)
	Battery Set Charging Time	25 minutes
	Battery Life Time (common NCAP Testing)	Half testing day
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)	European Motorcycle Target (EMT) E-Scooter CNCAP Target (PTW) 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 90 km/h
- » Weather resistance due to **waterproof design**
- » Special stealth shell design for optimized radar signature
- » Highly accurate **dual antenna RTK DGNSS system**
- » Compatible for a large variety of targets with multiple extension options

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UFOmicro – Target Options

	 <p>European Motorcycle Target & Stands¹ (UFO-1-5140) Euro NCAP approved with UFOmicro</p> 	 <p>E-Scooter CNCAP Target¹ (UFO-1-5150)</p>	
	 <p>European Motorcycle Target & Stands¹ (UFO-1-5140) Euro NCAP approved with UFOmicro</p> 	 <p>E-Scooter CNCAP Target¹ (UFO-1-5150)</p>	
	 <p>Playing Child Target (PCT)² (UFO-1-5180)</p> 	 <p>Standing Scooter Target (SST)² (UFO-1-5190)</p> 	 <p>Bicyclist Child Target¹ (UFO-1-5035)</p> 
	 <p>Pedestrian Child Target Articulation (EPTc)¹ (UFO-1-5070) Euro NCAP approved with UFOmicro</p> 	 <p>Pedestrian Adult Target Articulation (EPTa)¹ (UFO-1-5050) Euro NCAP approved with UFOmicro</p> 	 <p>Bicyclist Adult Target (EBT)¹ (UFO-1-5030) Euro NCAP approved with UFOmicro</p> 

¹ Image 4activeSystems GmbH

² Image Messring GmbH