



I N P H Y S I C S W E T R U S T

## 4activeFB-eco

### Highly automated robotic platforms for future ADAS and AD testing

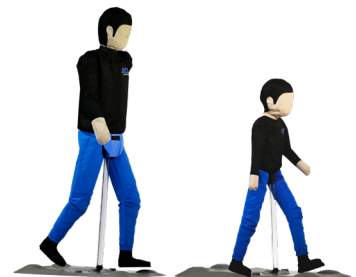
- ✓ precise dynamic Swarm-trajectories, live monitoring and auto-reporting
- ✓ open interfaces (OTX) and extensive connectivity (Mesh)
- ✓ designed according to Euro NCAP VRU and related ISO-standards

### The world lowest profile robotic platform with maximum performance

- ✓ extrem low profile (20-35 mm) and zero radar reflectivity
- ✓ precise dual antenna dGNSS/IMU (GPS RTK-L2, GLONASS, Beidou, Galileo)
- ✓ speeds up to 30 km/h with high accelerations  $+3 \text{ m/s}^2$  and  $-5 \text{ m/s}^2$

### Highest efficiency under rough conditions

- ✓ autonomous fast charging technology - 10 min charging / 2-5 h testing
- ✓ traversable by heavy vehicles - trucks – protection class IP67
- ✓ automatic target adaption and intuitive operation



# 4activeFB-eco

## Performance

maximum speed	5 / 8 / 10 / 20 / 30 km/h
acceleration	3 m/s <sup>2</sup> and -5 m/s <sup>2</sup> ★
accuracy	up to 2 cm
GNSS / inertialsystem	dual antenna IMU/dGNSS (GPS RTK-L2, GLONASS, Beidou, Galileo)
battery system	LTO 20 Ah – autonomous fast charging
drive system	1000 W dual power drive units
communication	WLAN mesh system
control software	4a Control (DEMO, CERT, NCAP, SWARM)
remote control	ruggedized outdoor safety panel

★Euro NCAP-compliant incl. EPT, EBT mounted

## Dimensions

length	1000 mm
width	600 mm
chassis height	20-35 mm
weight	20 kg

## Model types

- ✓ 4activeFB-eco - DEMO: 8 km/h - selected VRU trajectories for demo events
- ✓ 4activeFB-eco - CERT: 20 km/h - specifically for certification inspections
- ✓ 4activeFB-eco - NCAP: 10 / 20 km/h - acceleration (+3m/s<sup>2</sup>) acc. Euro NCAP 2020
- ✓ 4activeFB-eco - SWARM: 30 km/h - dynamic Swarm-trajectories

