

Solutions for active safety systems testing

- ARIES is able to supply the full range of active safety systems testings
 - 3-4-5 Autonomous cars SAE Level
 - 10+ tests configurations performed
 - 15+ systems tested
 - 100% ADAS technologies teste
 - Regulations: Euro NCAP / ANCAP / US NCAP / IIHS



Balloon car



Balloon Pedestrian



Motorcycle



Bicycles



- **ARIES has already developed products and services test active safety systems**

- **AVAT © Autonomous Vehicle for ADAS Testing**

Is a self driven thin plattform designed to overrun without causing any damages contain several universal fixingpoints to attach variety of outer enveloppes: ballon car, pedestrian ...

- **PC Software control for AVAT MISSION PLANNER & REMOTE CONTROL**

Real time controller:

Platform movements command

POSITIONING SYSTEM:

Based on RTK-DGPS

Control and Mission Planner Software Station:

Mission creation / modification / sending / position monitor

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- CIB (Crash Imminent Braking) Tests performed:**
 - LVS •Rear-End – Lead Vehicle Stopped
 - LVM •Rear-End – Lead Vehicle Moving
 - LVD •Rear-End – Lead Vehicle Decelerating
 - SCP•Straight Crossing Path
 - LTAP-OD •Left Turn Across Path – Opposite Direction
 - OD•Opposite Direction
 - Pedestrian Scenarios
 - Pole / Tree
 - Rear End – Cut-In
- ADAS systems tested:**
 - ABS +Explanation
 - AEB +Explanation
 - ACC +Explanation
 - FCW +Explanation
 - BSM +Explanation
 - LCA +Explanation
 - PR +Explanation
 - LDW / LKA / FCA / CMB / CAS / PCS / ESC / TSR / FWS / DA
 - others crash avoidance systems

Scenario for AEB for pedestrian testing:
 The vehicle under testing is moving at a constant speed, and the AVAT carrying a pedestrian dummy, is crossing at a constant speed.



FEATURE	VALUE
Mass	<130(kg)
Static load chassis capacity	4000(kg)
Maximum speed	80(km/h)
Maximum acceleration	0.5(g)
Maximum peak power	12(kW)
Auronomy	2880(Wh)