



COLLABORATE | INNOVATE | MANUFACTURE

LONG-RANGE UNMANNED AERIAL VEHICLES



ARS LONG ENDURANCE HYBRID UAVs

UAV SPECIFICATIONS

ARS Hybrid UAV - Configuration	Coaxial 8
Engine	2 Stroke 2 Cylinder
Electrical Output	4 kW
Engine Cooling	Liquid Cooled
Fuel	Petrol/Oil Mix
Fuel Capacity	7.5 Ltr
Payload (At Max. Fuel)	4.5 Kg
Max. Flight Endurance	5 Hrs
Flight Endurance Max. Payload	2 Hrs
Max. Airspeed	20 m/s
Operating Temp Limits	(20°) To 45°C

MOBILE NETWORKED MIMO WIRELESS COMMUNICATIONS

Rf Link (Primary and Backup)	Silvus OEM Mimo, Doodle Labs
Radio Frequency Options	900MHz, 2.4GHz, 5.8GHz
Flight Controller	Tablet Based
Max Range at Cruise Speed	201 Km
Maximum Video Transmission Range	50 Km
Flight Modes	Manual, Survey, Autonomous
Planck Aero Autonomous Landing System	✓
Aircraft I/O	Serial, Ethernet, USB, SBUS, PV

ARS, in partnership with BFD Systems, are designing and developing the next generation of hybrid multi-copter UAVs which have the robustness to operate in extreme environments and adverse weather conditions. The versatility of these UAVs enables control by a handheld device or through robust, state-of-the-art command and control vehicles. The end result is a genuinely unique aircraft with industry-leading endurance, range and performance. Its superior flight characteristics combined with modular design features make these hybrid UAVs exceptionally valuable for various professional aerial applications.



DIMENSIONS	
Wingspan	234 cm
Min. Height	84 cm
MGTOW	25 kg
Payload Mounting	Universal 12mm rod/ Rail system

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