LONG – RANGE, HEAVY - LIFT R22-UV

delivers up to 180 kg
with a range up to 900 km

Based on the piloted Robinson R22 helicopter

TECHNICAL CHALLENGES

PRECISION LANDING:
- fully automatic flight mode
- delivery cargo to hard-to-reach areas
- night operations
- flights under severe weather conditions
- all terrain capable

OPERATION IN FULLY-DISCONNECTED MODE:
- remote Ground Controls network capability
- equipped with Beyond Line-of-Sight (BLOS) data link system for over-the-horizon operations

SAFETY:
- high efficiency flight control based on TECS
- back-up systems
- parachute allows to lower the overall crash risks

WIDE VARIETY MISSIONS

- Intercity Delivery
- Cargo
- Humanitarian
- Disaster Relief

HIGH-PRECISION, HEAVY EQUIPMENT:

Lidar, SAR, Electro-Optical Systems, Spraying Equipment For Precision Farming

www.uavos.com
uavos@uavos.com

UAVOS

PERFORMANCE

PARAMETER	DATA
Maximum cruising speed	160 km/h
Maximum speed	189 km/h
Cruise fuel consumption	33,5 l/h
MTOW	635 kg
Payload with full fuel tank	40 kg
Max. climbing rate	6 m/s
Operational range	1,020 km
Service ceiling	4,200 m
Endurance	6 h

APPLICATIONS:

- Video surveillance and monitoring
- Cargo dropping up to 180 kg (400lbs) at specified location
- Autonomous cargo transportation and delivery
- Radio relay
- Agricultural operations using spraying equipment*
- Flying R&D laboratory (meteorology, hydrology, earth monitoring, etc.)

PHYSICAL SPECIFICATIONS

PARAMETER	DATA
Main rotor diameter	7,700 mm
Length	8,800 mm
Height	2,700 mm
Wheelbase	1,800 mm
Engine type	Four-stroke engine
Engine manufacturer	Lycoming O-320-A2B
Fuel tank capacity	270 l
Max. wind speed during takeoff or landing	14 m/s
Onboard power supply	28V
Altimeter	Radio
Transponder with ADS–B	S
TBO	2,200 hr
Autorotation	Yes

PAYLOAD OPTIONS:

- EO/IR
- RADARS SAR/GMTI -LIDAR
- HYPERSPECTRAL

UAVOS