

Producer

"UAS: THE GLOBAL PERSPECTIVE" & "UAS VTOL"

Coming Out In June 2025



Be included - Submit your Data

Respectively 20th & 3rd Edition

Your Entry is Free-of-Charge
Country

UAS Name / Designation			
Usage (See page 2)	O Aerial Work O Cargo Transport O Passenger Transport O Gvmt & Military		
Status	OConceptualOIn DevelopmentOExperimentalOPrototypeOMarket ReadyOIn ProductionOResearch ProjectODemonstrator		
Airframe Type	 Fixed Wing (capable of flight by using the aerodynamic lift generated by its wings) Fixed Wing with Lift Rotors (rotors positioned on arms, wings, tail or booms) Lighter-than-Air (airships, dirigibles, flying object) No Wings / No Rotors (e.g. fuselage or pod with integrated ducted fans or vectoring jet nozzles) Ornithopter (flapping wings) Motorized parafoil (self-inflating wing) Rotorcraft (derives its source of lift from rotor blades rotating around an axis) Transwing (wing folds & tilts & permits in-flight transitioning) Tilt Wing (wing is horizontal for conventional forward flight and rotates up for VTOL) 		
VTOL	Vertical take-off & landing capable O Yes O No		
Rotorcraft Class (See page 3 for explanation of terms & pictographs)	○ Bicopter ○ Birotor Coaxial ○ Birotor Intermeshing ○ Gyroplane ○ Monocopter ○ Mono Ducted Rotor ○ Multicopter (3 & <10 lift rotors) ○ Pluricopter (10 lift rotors & more) ○ Quantity lift rotors ○ Quantity lift rotors ○ Quantity puller rotors ○ Quantity puller rotors ○ Tandem Ducted Rotors ○ Tandem Rotor ○ Tether: □ Standard □ Optional		
Propulsion	O Electric O Hybrid O Jet / Turbine O Piston O Other		
Fuel / Energy	O AvgasO BatteryO Fuel CellO GasolineO Heavy FuelO NitrogenO Solar PanelO 2-StrokeO 4-StrokeO OtherNote:Heavy Fuel = Diesel, Jet Fuel (<i>Jet A1, JP5, JP8</i>), KeroseneO therO ther		
Command & Control	O Manual O Programmed / Automatic □ SatCom enabled Note: In view of regulatory considerations, "Programmed / Automatic" includes autonomous.		
Control Range	○ <0,2 km ○ 2 km ○ 25 km ○ 50 km ○ 75 km ○ 150 km ○ >150 km		
Flight Endurance	minutes km Note: <i>Please fill in both boxes</i>		
Max. Cruise Speed	km/h		
Max.Take-Off Weight	kg		
Principal Mission Payload	O Imaging O Sensing & Measurement O Other (Non-military) (See page 4 for explanation of terms & examples) O Other (Military)		
Payload Capacity	kg Total weight of the payload [(<i>Imaging, Sensing & Measuremernt, Other</i>), cargo, pilot, passengers & luggage], that can be accommodated. Principal payload is aircraft-specific & factory-integrated Yes No Quantity of passengers that can be transported (<i>in addition to pilot</i>) Imaging, Sensing & Measuremernt, Other), cargo, pilot		
Submission Date			
Submitter O Mr O Ms First Name Family Name			
	Email Tel.		
Comment			

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DEFINITIONS & EXPLANATIONS RELATIVE TO THE SUBMISSION FORM



UAS USAGE

Aerial Work

Commercial & Non-Commercial

(Including Corporate Operations = Operations conducted by a corporate entity for its own purposes)

An aircraft operation in which an aircraft is used for specialized (flight) services such as agriculture, construction, photography, surveying, observation & patrol, search & rescue, aerial advertisement, etc. (Chicago Convention, Annex 6 Part 1, Chapter 1.H9)

Flight Training / Instruction

(Commercial & Corporate operations)

- **Duo** (student instruction by licensed pilot)
- Solo (unaided student flight)
- Check (qualification verification of pilot license holder)

Other Miscellaneous

(Commercial &	Corporate operations)
- Test / Experimental	- Demonstration

- Ferry / Positioning - Air Show / Race

Cargo Transport

Commercial & Non-Commercial (incl. Corporate)

Scheduled & Non-scheduled

- Internal Loads (inside the airframe)
- External Loads (outside the airframe)

Passenger Transport

Commercial & Non-Commercial (incl. Corporate) Scheduled & Non-scheduled

Governmental & Military Flight Operations

Governmental Flight Operations

Security-related

- Coast Guard

- Border Guards - Civil Protection
 - Fire-fighters

Safety-related

- Customs - Gvmt executive agency
- Police (municipal, national, federal)

Military Flight Operations

- Air Force - Army - Gendarmerie
 - Navy

Regional & International Organisations

- **European Commission Agencies, e.g.:**
- Border & Coast Guard Agency (FRONTEX)
- European Maritime Safety Agency (EMSA)
- International Criminal Court (ICC)

Interpol

United Nations (UN) Agencies

UAS & RPAS - Definitions

The following terms & explanations, indicated in ICAO Circular 326, are used in this document.

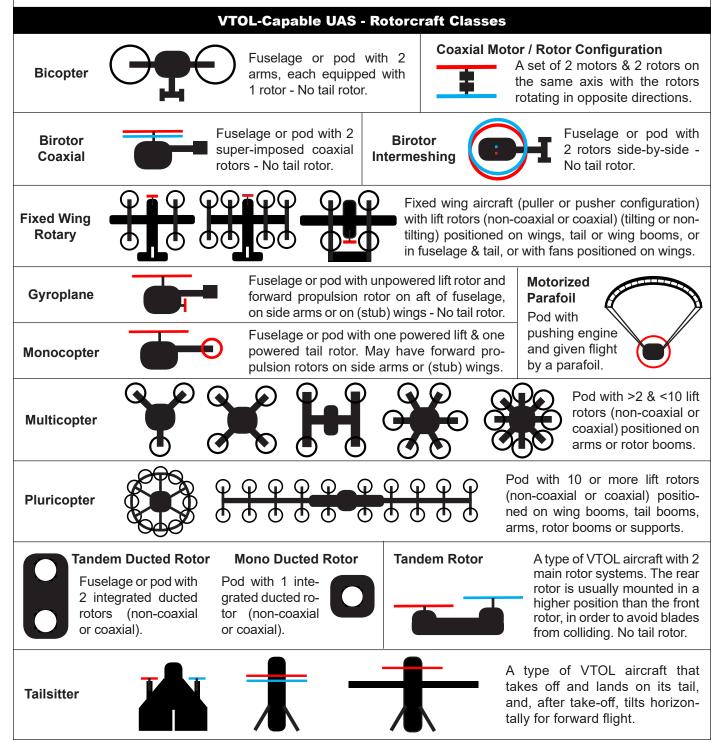
Unmanned aircraft system (UAS) is an aircraft and its associated elements which is operated with no pilot on board.

Unmanned aircraft (UA) is any aircraft intended to be flown without a pilot on board. They can be remotely and fully controlled from another place (ground, another aircraft, space) or pre-programmed to conduct its flight without intervention (automatic).

Remotely-piloted aircraft system (RPAS) is a set of configurable elements consisting of a remotely piloted aircraft (RPA), its associated remote pilot station(s), the required command and control links and any other system elements as may be required at any point during flight operation (e.g. launch & recovery systems). (Note: RPAS is a subcategory of UAS).

Remotely piloted aircraft (RPA) is an aircraft where the flying pilot is not on board the aircraft. A RPA is piloted from a Remote Pilot Station and is expected to be integrated into the air traffic management system equally as manned aircraft, [and] real-time piloting control is provided by a licensed Remote Pilot.

Note: The abbreviations UAS, RPAS, UA and RPA are invariable (singular & plural are identical).



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UAS Payloads

Elements on an unmanned aircraft (UA) that are **not necessary for flight**, but are carried for the purpose of achieving specific mission objectives.

3 Payload categories: • Imaging

- Sensing & Measurement
 - Other: Non-military
 - Military

Imaging Payloads (Civ & Mil)

Elements on a UA permitting the capture of **imagery** (*possibly with simultaneous tracking*) and the recording or transmission of such data. Imaging payloads (gimballed & non-gimballed) include, amongst others:

Corona Effect Imager	Light Intensification Sensor
Digital Photo Camera	Line Scanner
Digital Video Camera	Multilayer Laser
Electro-Optical (EO) Sensor	Multispectral - Optical
Film Camera	Multispectral - Thermal
Flash LiDAR	Multisensor Imager
Forward-looking Infrared	Near Infrared Sensor
(FLIR)	Radar
Hyperspectral Sensor	Radar - Ground Penetrating
Infrared (IR) Sensor	Radar - Maritime
Light Detection and Ranging	Radar - Synthetic Aperture
(LiDAR) Sensor	Radar - Inverse Syn. Apert.
Laser Scanner	Solid State Photon Counter

Sensing & Measurement Payloads (Civ & Mil)

Elements on a UA permitting the capture of **non-imagery** data and the recording or transmission of such data. They include, amongst others: Acoustic missed distance indicator (MDI) Aerial pollution measurement device Anemometer Atmospheric measurement device Atmospheric pollutant detector Bathymetric measurement device Camera mounts & gimbals Doppler radar missed distance indicator (MDI) Dry film thickness measurement device Electricmagnetic acoustic transducer (EMAT) Emergency beacon detector Frequency measurement device Gas (leak) detector Geomagnetic measurement device Gimbal mount Hydrographic measurement device Interferometry Laser pointer / range finder Lightning protection system (LPS) tester Location defining (static & moving objects): Flora & Fauna
 Object
 Person
 Phenomena Measurement (contact) probe / feeler Metal detector Meteorological measurement device Microwave radiometer Mineral detector Mobile telephone detector & localiser Moving target indicator Nuclear, radiological, biological & chemical (NRBC) detector Odour detector Particle measurement device Phenomena analysis Pulsed eddy current (PEC) wall thickness measurement Radiation meter Spectrometer Radio frequency spectrum analyser Ultrasonic transducer (UT) Ultraviolet sensor

Other Payloads

Elements on a UA permitting to achieve specific **non-imagery**, **non-sensing** & n**on-measuring** mission objectives. There are 2 categories:

Non-Military

Airborne data recorder Cable (lead) stringing grip Cargo hoisting & lowering winch & cable Cargo (net) sling & hook Cargo storage container / rack (internal & external) Communication relay (incl. antennae) Dispensing system (solids): Bulk (e.g. fertilizer pellets, granulates, larvae capsules, pollination agents, seeds) Other (e.g. seedlings) Fire extinguishing system (incl. discharge spout) Forestry trimming and/or harvesting tool High pressure liquid dispenser (roof / wall cleaning) Life buoy carriage & delivery device Lighting (floodlight, spotlight, strobe) Loudspeaker / megaphone Manipulating / robotic arm Payload-imposed antennae Perching grip (e.g. on high power transmission cable) Publicity banners (UA-towed) + tow hook & cable Publicity / announcement screen Tagg fixation device (e.g. bird disruptor on power cable) Spraying system (liquids for various purposes: pesticides, fertilizer, insecticides, cleaning / painting of structures) Suction extractor (hornet & wasp nest control) Water bombing system (large volume liquid release) Water sampling device Military Artillery / gunshot detector & localiser Automated identification system (AIS) Cargo (net) sling & hook Communications intelligence (COMINT) Communication relay (incl. antennae) Directed acoustic (subsonic, sonic, ultrasonic) energy emitter Electronic counter measures (ECM) Electronic intelligence (ELINT) Electronic warfare (EW) & Electronic support (ES) Image intelligence (IMINT) Intelligence, Surveillance, Reconnaissance (ISR) Laser designator Mine detector (on land / at sea) Missiles & rockets (incl. launch pylons / racks) Ordnance (e.g. bombs, flares, grenades, mortars) & ejectors Pod (wing / fuselage-mounted - various purposes) Signal intelligence (SIGINT) Target search & acquisition (TA) UA neutralisation / interception system (net & net launcher) Warhead Weapon (lethal, non-lethal) & mount For Decoys* and/or Unmanned Target Aircraft Radar signature augmentation / tailoring device* - Thermal signature augmentation device

- Tow target sleeve, cable & winch
- Smoke generator