UAS: The Global Perspective - Upcoming 20TH Edition (2025)
UAS INFORMATION SUBMISSION FORM
Complete, Tick As Applicable & Return to pvb@pro-uas.com

Country _____

Producer _____

UAS Designation/Name _____

Usage *(professional)*	◯ Aerial Work ◯ Cargo Transport ◯ Passenger Transport ◯ Military
Status	◯ Conceptual ◯ In Development ◯ Experimental ◯ Prototype ◯ Market Ready / In Production
Airframe Type	◯ Fixed Wing *(aircraft capable of flight using the aerodynamic lift generated by its wings)* ◯ Fixed Wing with Lift Rotors *(positioned on its wings, tail or rotor booms)* ◯ Lighter-than-Air *(dirigibles, airships)* ◯ No Wings / No Rotors *(e.g. fuselage with integrated ducted fans or vectoring jet nozzles)* ◯ Ornithopter *(flapping wings)* ◯ Rotorcraft *(derives it's source of lift from rotor blades rotating around a mast)* ◯ Transwing *(folds & tilts - in-flight transitioning)* ◯ Tilt Wing *(wing is horizontal for conventional forward flight and rotates up for VTOL)*
VTOL	Vertical take-off & landing capable ◯ Yes ◯ No
Rotorcraft Class	*(See page 2 for explanation of terms)* ◯ Bicopter ◯ Birotor ◯ Birotor Coaxial ◯ Birotor Intermeshing ◯ Gyroplane ◯ Monocopter
	◯ Multicopter (>2 & <10 lift rotors) ◯ Pluricopter (10 lift rotors & more) ☐ Quantity lift rotors ☐ Quantity lift rotors ☐ Quantity puller rotors ☐ Quantity puller rotors ☐ Quantity pusher rotors ☐ Quantity pusher rotors
	◯ Tandem Rotor ◯ Tailsitter **Tether** is ☐ Standard ☐ Optional
Propulsion	◯ Electric ◯ Hybrid ◯ Jet/Turbine ◯ Piston ◯ Other
Fuel / Energy	◯ Avgas ◯ Battery ◯ Fuel Cell ◯ Gasoline ◯ Heavy Fuel ◯ Nitrogen ◯ Solar Panel ◯ 2-Stroke ◯ 4-Stroke ◯ Other Note: Heavy Fuel = Diesel, Jet Fuel *(Jet A1, JP5, JP8)*, Kerosene
Command & Control	◯ Manual ◯ Programmed / Automatic ☐ SatCom enabled Note: Due to regulatory matters / technological acceptance, autonomous UAS are not considered.
Control Range	◯ <0,2 km ◯ 2 km ◯ 25 km ◯ 50 km ◯ 75 km ◯ 150 km ◯ >150 km
Flight Endurance	☐ **minutes** ☐ **km** Note: Please fill in **both** boxes
Max. Cruise Speed	☐ **km/h**
MTOW	☐ **kg**
Mission Payload	◯ Imaging ◯ Sensing & Measurement ◯ Other (non-military) *(See page 3 for explanation of terms & examples)* ◯ Other (military)
Payload Capacity	☐ **kg** Total weight of the payload [(Imaging, Sensing & Measuremernt, Other), cargo, passengers + luggage], that can be accomodated.
	Principal payload is aircraft specific & factory-integrated ◯ Yes ◯ No
	☐ Quantity of passengers that can be transported *(in addition to pilot)*

Submission Date _____

Submitter ◯Mr ◯Ms First Name _____ Family Name _____

Email _____ Tel. _____

Comment _____

Definitions

The following terms and explanations are indicated in ICAO Circular 326.

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

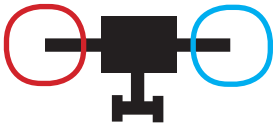
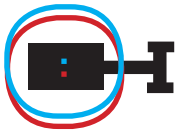
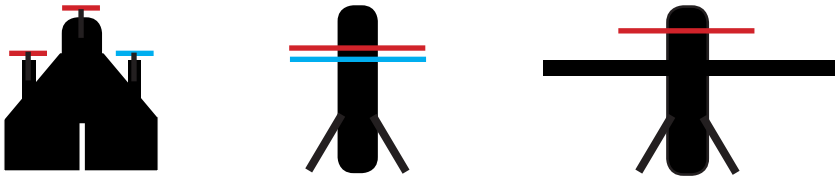
Unmanned aircraft (UA) is any aircraft intended to be flown without a pilot on board. They can be remotely and fully controlled from another place (ground, another aircraft, space) or pre-programmed to conduct its flight without intervention (automatic).

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).

Remotely piloted aircraft (RPA) is an aircraft where the flying pilot is not on board the aircraft. (Note: RPA is a subcategory of unmanned aircraft). It 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 and plural are identical).*

Rotorcraft Classes

Bicopter			Pod with 2 arms, each equipped with 1 rotor - No tail rotor.
Birotor	**Birotor Coaxial**		Fuselage or pod with 2 super-imposed coaxial rotors - No tail rotor.
	Birotor Intermeshing		Fuselage or pod with 2 rotors side-by-side - No tail rotor.
Gyroplane			Fuselage or pod with unpowered lift rotor and horizontal forward propulsion rotors on aft of fuselage, on side arms, or on (stub) wings - No tail rotor.
Monocopter			Fuselage or pod with powered lift & tail rotor. May have horizontal propulsion rotors on side arms or (stub) wings.
Multicopter	**>2 & <10 rotors**		Fuselage or pod with >2 & <10 lift rotors positioned on the wings, tail booms, arms, or rotor booms.
Pluricopter	**10 rotors & more**		Fuselage or pod with 10 or more lift rotors positioned on the wings, tail booms, arms, or rotor booms.
Tandem Rotor			A type of VTOL aircraft with two main rotor systems and no tail rotor. The rear rotor is usually mounted in a higher position than the front rotor, in order to avoid the blades from colliding. No tail rotor.
Tailsitter			A type of VTOL aircraft that takes off and lands on its tail, and, after take-off, tilts horizontally for forward flight.

UAS Payloads

Payloads are elements installed 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

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

Corona Effect Imager
Digital Photo Camera
Digital Video Camera
Electric-Optical (EO)
Film Camera
Flash LiDAR
Forward-looking infra-red (FLIR)
Hyperspectral
Infrared (IR)
Light Detection and Ranging (LiDAR)
Laser Scanner
Light Intensification
Line Scanner
Multi-Layer Laser
Multispectral - Optical
Multispectral - Thermal
Near Infra-red
Radar
Radar - Ground Penetrating
Radar - Maritime
Solid State Photon Counter
Synthetic Aperture Radar (SAR)

Sensing & Measurement Payloads

Elements on an unmanned aircraft (UA) that permit the capture of non-imagery data and the recording or transmission of such data. They include, amongst others:

Aerial pollution measurement
Anemometer
Atmospheric measurement
Atmospheric pollutant detection
Bathymetric measurement
Camera mounts & gimbals
Data recording
Electricmagnetic measurement
Emergency beacon detection
Frequency measurement
Gas detection
Geomagnetic measurement
Gimbal mount
Hydrography
Interferometry
Laser pointer / range finder
Location definition:
- Flora & fauna
- Object *(moving & static)*
- Person *(moving & static)*
- *Phenomena*

Measurement probe / feeler
Metal detector
Meteorological measurement
Microwave radiometer
Mineral detection
Moving target indicator
Odour detection
Particle measurement
Phenomena analysis
Radiation meter
Spectrometer
Radio frequency spectrum analyser
Ultrasonic analysis
Ultraviolet sensor

Other Payloads

Elements on an unmanned aircraft (UA) that permit to perform non-imagery and non-sensing mission specific activities. Their two categories, include, amongst others:

Non-Military

Airborne data recorder
Cable stringing grip
Cargo net sling & hook
Cargo storage rack *(internal & external)*
Communication relay
Dispensing system *(solids)*:
- Bulk *(e.g. granulates, larvae capsules, pollination agents, seeds)*
- Other *(e.g. seedlings)*

Fire extinguishing system
Flame thrower *(hornet & wasp nest eradication)*
High pressure liquid dispenser *(roof / wall cleaning)*
Hoisting & lowering winch *(cargo)*
Life buoy carriage & delivery system
Lighting *(floodlight, spotlight, strobe)*
Loudspeaker / megaphone
Manipulating / robotic arm
Payload imposed antennae
Perching grip (*on high power transmission cable*)
Publicity banners *(UAS-towed)* & tow hook
Tagg fixation system *(e.g. bird disruptor)*
Spraying system *(liquids for various purposes)*
Suction extractor *(hornet & wasp nest control)*
Water bombing system *(large volume release)*

Military

Acoustic detection & localisation system
Airborne data recorder
Artillery localisation system
Cargo sling & grip / winch
Communication relay
Electronic warfare (EW) system
Laser designator
Lethal *(fuselage / pod with integrated warhead)*
Mine detection system
Missiles & carriage / launch pylon
Net *(drone interception / disabler)* & net launcher
Nuclear, biological & chemical (NBC) detection sensor
Ordnance carriage & release system *(e.g. bombs, mortars)*
Pod *(various purposes, incl. additional fuel)*
Rockets & carriage / launch pylon, rack or pod
Weapon *(e.g. machine gun)* & mount