

EASA Proposed Rules on Drones

Notice of Proposed Amendment 2017-05 (A)

June 1, 2017

EASA Continues work on Drones



NPA 2017-05

Introduction of a regulatory framework for the operation of drones — Unmanned aircraft system operations in the open and specific category

- Eliminates the 150 Kg. Limit for EASA Jurisdiction
- Purpose of the rule is to:
 - Ensure operation-centric, proportionate, risk- and performance-based regulatory framework for all UAS operations
 - Ensure a high and uniform level of safety for UAS
 - Foster the development of the UAS market
 - Contribute to enhancing privacy, data protection, and security
- Creates two Categories of Drones
 - Open - similar to FAA part 107
 - Specific - requires a specific approval by EASA to operate

Rule Highlights

- Allows the designation of No-Drone-Zones by member states
- Member State aviation safety organizations enforce regulations
- Allows model aviation to establish flying sites exempt from regulation
- Requires all aircraft to be registered (unless given exemption for models)
- Applies a 120m AGL max altitude (~394 ft.)
- Remote ID for flight over people
- Pilot certification similar to FAA part 107
- Specific Category requires authorization similar to FAA waiver process
- Specific Category may require aircraft certification
- Light UAS Operator Certificate - allows delegation of authorization process to operator
- Creates a class of deregulated drones below 250 grams

Classes of Open Category Drones



- **UAS Class C0**

- Max Take Off Mass (MTOM), including payload, of 250
- Be safely controllable by a remote pilot following the manufacturer's instructions
- Have clear operational instructions and warnings highlighting the risks
- Include an awareness leaflet with all the information required to use the UAS in accordance with the applicable regulations on aviation safety, security, privacy and data protection, liability and insurance
- Designed to be operated below 50 m or have an active system limiting the attainable height of the UA to a maximum of 50 m above take-off level
- Designed without sharp edges that may constitute a danger to people on the ground
- Equipped with propellers, be designed in a way to limit any injury that may be inflicted by blades
- Powered by electricity of a nominal voltage not exceeding 24 V direct current (DC) or the equivalent alternating current (AC) voltage

Classes of Open Category Drones



- **UAS Class C1**

- Ensure that in the event of an impact with a human body, the energy transmitted to the human body is less than **80 J**, or MTOM, including payload, of less than **900 g** and a max speed of **18 m/s**
- Maximum altitude limited to **120 m** or equipped with a system limiting the height above the ground to a value selectable by the remote pilot; (UA height provided to the remote pilot)
- Equipped with an electronic ID system when fitted with a camera of more than 5 megapixels (MP) and a real-time video transmission link or any other type of sensor able to record personal data;
- Designed without sharp edges that may constitute a danger to people on the ground and if equipped with propellers, be designed in a way to limit any injury that may be inflicted by blades
- Sound level not exceeding **80 dB (measured at 3 m distance from the UA)**;
- Powered by electricity of a nominal voltage not exceeding **24 V DC** or the equivalent
- Equipped with lights, as required for its controllability

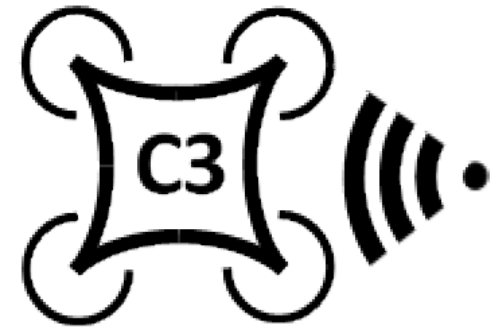
Classes of Open Category Drones



- **UAS Class C2**

- MTOM, including payload, of less than **4 kg**;
- Maximum altitude limited to **120 m** or equipped with a system limiting the height above the ground to a value selectable by the remote pilot; (UA height provided to the remote pilot)
- Equipped with an advisory geofencing system
- Equipped with an electronic identification system
- Provide to the pilot clear information about the battery status of the UA and its control station
- Sound level not exceeding **80 dB (measured at a 3-m distance from the UA)**;
- Powered by electricity of a nominal voltage not exceeding **48 V DC** or the equivalent AC voltage
- Loss of data link method for the UA to recover or terminate the flight in a way that reduces the effect on third parties in the air or on the ground
- Equipped with lights, as required for the operating conditions;

Classes of Open Category Drones

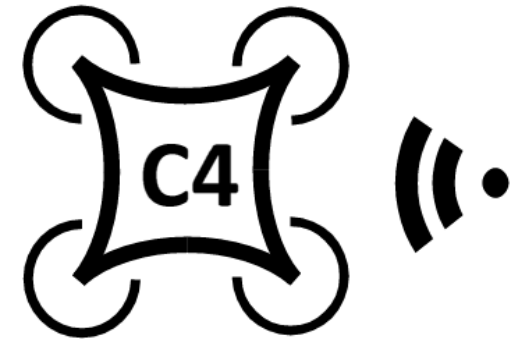


- **UAS Class C3**

- MTOM, including payload, of less than **25 kg**;
- Maximum altitude limited to **120 m** or equipped with a system limiting the height above the ground to a value selectable by the remote pilot; (UA height provided to the remote pilot)
- Provide to the pilot clear information about the battery status of the UA and its control station;
- Loss of data link method for the UA to recover or terminate the flight in a way that reduces the effect on third parties in the air or on the ground
- Powered by electricity of a nominal voltage not exceeding **48 V DC** or the equivalent AC voltage;
- Lights, as required for the operating conditions

Classes of Open Category Drones

- **UAS Class C4**
 - MTOM, including payload, of less than **25 kg**;



Subcategories of Open Category Drones

UAS subcategory	UAS class	MTOM/ Joule (J)	Distance from people	Maximum height of the operation	Remote-pilot competence	Age of the remote pilot	Main technical requirements (CE marking)	UAS registration	Electronic identification (EI), geofencing (G)
A1 Fly over people	Privately built	< 250 g	Fly over uninvolved people (not over assemblies of people)	< 50 m	Leaflet	No limitation	N/a	No	No
	C0						Toy regulation, no sharp edges, awareness leaflet		
	C1	< 80 J or 900 g		< 120 m or up to 50 m above a higher obstacle, at the request of the owner of the object	Leaflet plus online training with a test	14 years or with supervisor	Kinetic energy, no sharp edges, selectable height limit, awareness leaflet	Only for operator	EI if with a camera of > 5 MP or an audio sensor, EI and G if required by the zone of operations
A2 Fly close to people	C2	< 4 kg	Fly intentionally in proximity to but at a safe distance from uninvolved people (> 20 m for rotorcraft UAS or > 50 m for fixed-wing UAS)	< 120 m or up to 50 m above a higher obstacle, at the request of the owner of the object	Leaflet plus certificate of competence (theoretical qualification) and exam in an approved centre	16 years or with supervisor	Mechanical strength, lost-link management, selectable height limit, awareness leaflet	Operator and UA	Yes
A3 Fly far from people	C3	< 25 kg	Fly in an area where it is reasonably expected that no uninvolved person will be present	< 120 m or up to 50 m above a higher obstacle, at the request of the owner of the object	Leaflet plus online training with a test	16 years or with supervisor	Lost-link management, selectable. height limit, awareness leaflet	Operator and UA	If required by the zone of operations
	C4		In addition to the above, keep a safety distance from the boundaries of congested areas of cities, towns or settlements, or aerodromes				Operational. Instructions, awareness leaflet		
	Privately built						N/a		

Thank you

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