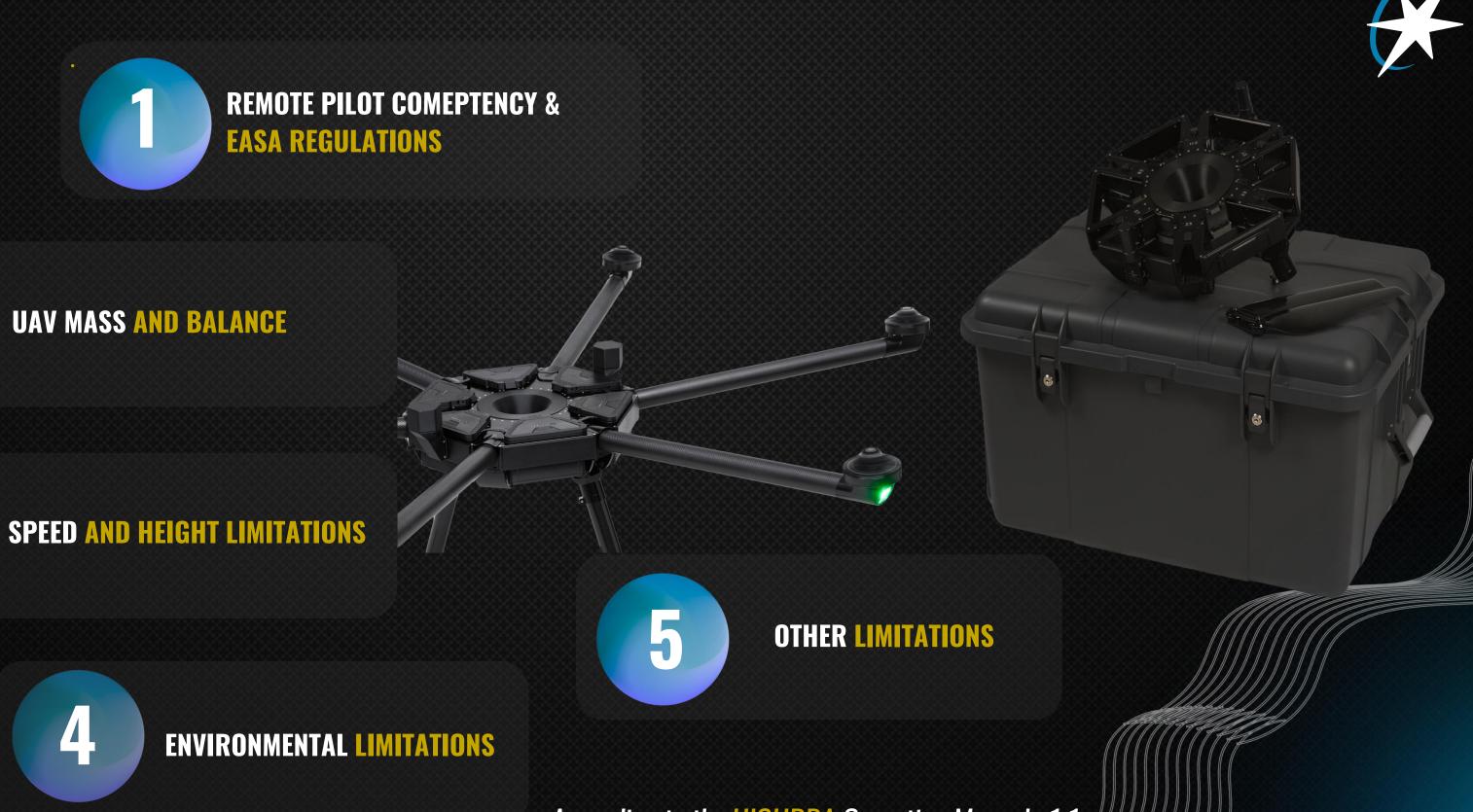


### THE HIGHDRA OPERATIONAL LIMITATIONS





According to the **HIGHDRA** Operating Manual v1.1



### REMOTE PILOT COMEPTENCY









KEY REQUIREMENTS:
Training & certification
based on UAV category
Knowledge of airspace
regulations & emergency
procedures

regulations & emer procedures Proficiency in UAV controls & system functionalities A remote pilot must be proficient in operating all UAV controls and possess a thorough knowledge of the system's functionalities. Ongoing training and periodic proficiency assessments are essential to keep pilots updated with current best practices, helping them stay well-prepared to handle any potential issues or unexpected situations that may arise during flight. These measures help to ensure that remote pilots always operate with the highest level of safety and efficiency.



STARCOPTER
REQUIREMENTS:
Periodic training &
assessments
Staying updated on
best practices
Ensuring safe &
efficient operations

#### EASA REGULATIONS



The European Union Aviation Safety Agency (EASA) has established a regulatory framework for Unmanned Aircraft Systems (UAS), commonly known as drones, to ensure their safe integration into European airspace. This framework categorizes drone operations into three main categories: Open, Specific, and Certified, each defined by the level of operational risk.



#### **Open Category**

The Open category is designed for low-risk operations.



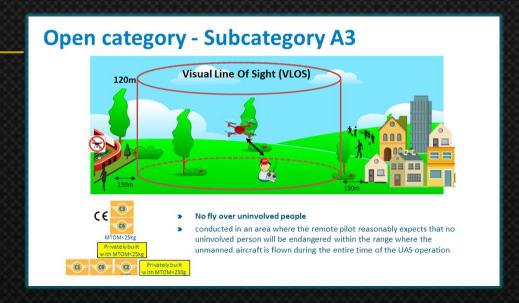
#### **Specific Category**

Operations falling outside the Open category's limitations are classified under the Specific category, which encompasses moderate-risk activities.



#### **Certified Category**

The Certified category addresses high-risk operations, including the transport of people or dangerous goods.



| Drone Operator / pilot      |  |  |  | Operation   |                   |                 |
|-----------------------------|--|--|--|---|-------------------|-----------------|
| Remote pilot<br>minimum age | Remote pilot<br>qualifications   | Drone Operator registration?                   | Operational restrictions                   | Subcategory   | Max Take off mass | C-Class         |
| No minimur                  |  | Yes No if toy or not fitted with camera/sensor |  | A1  | <250g             | Privately build |
| age<br>(certain condition   | Read user's<br>manual  | with camera/sensor                             |  |   |                   | legacy < 250g   |
| apply)                      |  |  |  | Not over assemblies   |                   | со              |
|                             |  |  | Operational restrictions on the drone's    | of people<br>(can also fly<br>in subcategory A3)              | <900g             | а               |
| 16                          | Check out<br>the QR code<br>below<br>for the necessary<br>qualifications<br>to fly these | Yes  | use apply<br>(follow the QR code<br>below) | Fly close to<br>people<br>(can also fly<br>in subcategory A3) | <4kg              | CZ              |
|                             | drones   |  |  |   | <25kg             | СЗ              |
|                             |  |  |  | A3<br>Fly far   |                   | C4              |
|                             |  |  |  | from people   |                   | Privately build |

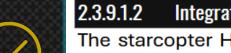
| Difference Between A1/A3 and A2 Remote Pilot Licenses (EASA Regulations) |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Category   | A1 (Fly Over<br>People)                       | A3 (Fly Far From People)   | A2 (Fly Near People)   |  |  |  |
| Drone<br>Weight  | Up to 900g                                    | Up to 25kg   | 900g to 4kg  |  |  |  |
| Operational<br>Area  | Can fly over people<br>but not over<br>crowds | Must fly far from people (at least<br>150m from residential, industrial, or<br>recreational areas) | Can fly <b>closer to people</b> but<br>not over them                         |  |  |  |
| Training<br>Required   | Online training + online exam                 | Online training + online exam  | A1/A3 training + self-practical<br>training + additional<br>theoretical exam |  |  |  |
| Exam Format  | Online theory test                            | Online theory test   | Additional in-person or supervised exam                                      |  |  |  |
| Best For   | Hobbyists, small<br>drones in public<br>areas | Rural or controlled areas, larger drones   | Commercial operators who need to fly in populated areas                      |  |  |  |

| C3 (under 25 kg) ^          |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| Subcategory                 | A3   |  |  |  |  |
| Operational restrictions    | <ul> <li>Must not overfly uninvolved people;</li> <li>Maintain a horizontal distance of 150 m from uninvolved people and urban areas;</li> <li>Maintain flight altitude below 120m above ground level.</li> </ul>  |  |  |  |  |
| Drone operator registration | Yes  |  |  |  |  |
| Remote pilot competence     | <ul> <li>Read carefully the user manual</li> <li>Obtain a 'Proof of completion for online training' for A1/A3 'open' subcategory by:         <ul> <li>Completing the online training</li> <li>Passing the online theoretical exam</li> </ul> </li> </ul> |  |  |  |  |
| Remote pilot minimum age    | 16*  |  |  |  |  |



## UAV MASS AND BALANCE





**Integration instructions** 

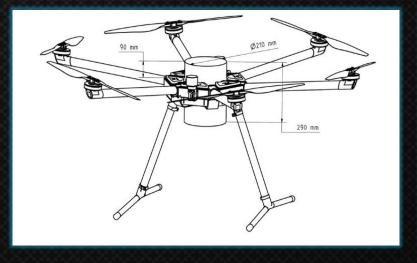
The starcopter HIGHDRA can be equipped with various standalone payload systems that are within the specified dimensions and weight. The UAV has a payload mount below that starcopter will configure for you before the rental, so that you can secure your payload via a payload adapter specified for your payload. starcopter will provide you with specific instructions for your payload.

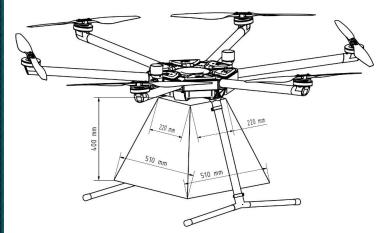
| Parameter   | Value   |
|-------------|---------|
| Max. Weight | 7.49 kg |



Proper mass and balance are essential for stability, controllability and optimal flight performance

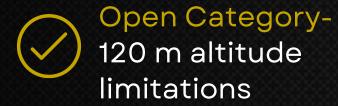








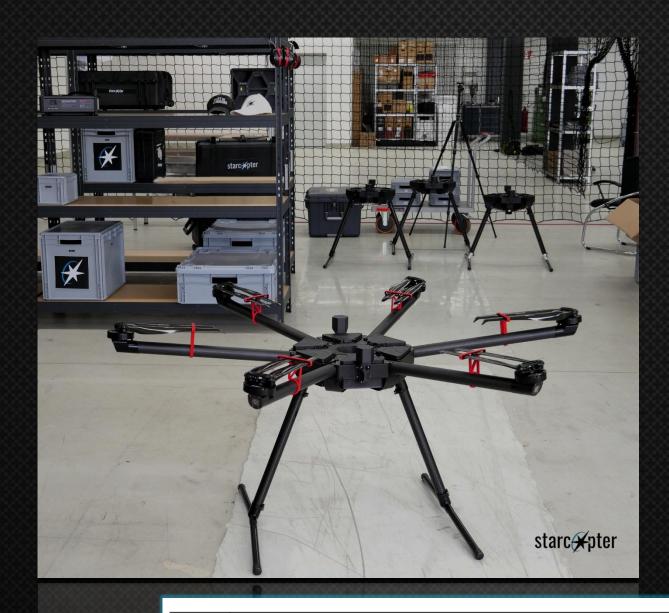
### SPEED AND HEIGHT LIMITATIONS



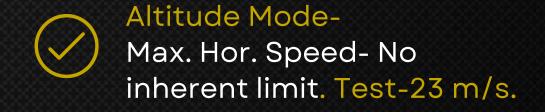
No EASA countries Service ceiling

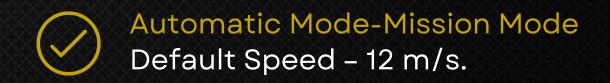
Payload up to 2.5 kg-3500 meters AMSL

Payload with maximum
Takeoff mass1500 meters
AMSL









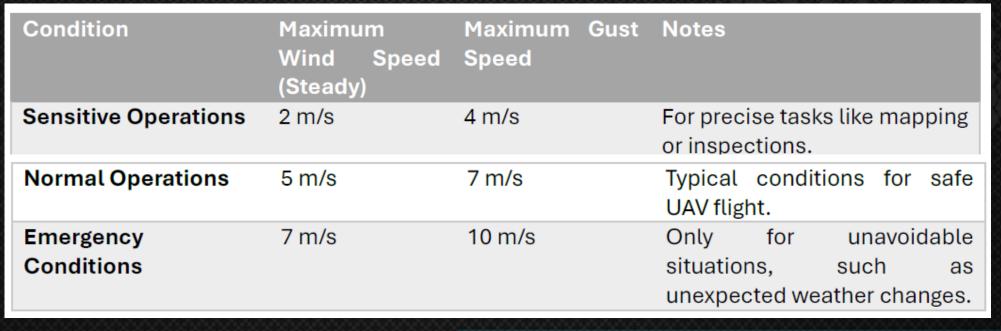
Only start the mission once the UAV is in the air. Do not use the takeoff action (see Quick Actions Sidebar) in AMC.

Do not set mission items below 10 meters AGL or HGT due to potential inaccuracies in elevation models, which could pose a safety risk.

### ENVIRONMENTAL LIMITATIONS











No operation in precipitation, thunderstorms, lightning and strong winds. Only dry conditions!

| Temperature / Humidity |              | 0% to 50%         | 50% to<br>80%            | 80% to 95%   | >95 %   |
|------------------------|--------------|-------------------|--------------------------|--|---|
|                        |              | Dry<br>Conditions | Normal operation         | Increased<br>moisture                                  | Extreme<br>Humidity, mist<br>or fog present                                       |
| -10°C to 2°C           | Very<br>Cold | Normal<br>flight  | Avoid clouds, fog, mist. | High risk of icing. Avoid flying                       | High risk of icing. Reduced visibility. Avoid flying                              |
| 2°C to 5°C             | Cold         | Normal<br>flight  | Normal<br>flight         | Potential for condensation on sensors and electronics. | High risk of condensation. Medium Risk of icing. Reduced visibility. Avoid flying |
| 5°C to 30°C            | Standard     | Normal<br>flight  | Normal<br>flight         | Potential for condensation on sensors and electronics. | High risk of condensation, reduced visibility. Avoid flying                       |

### OTHER LIMITATIONS





#### 2.4 SOFTWARE UPDATES AND UAV UPGRADES BY STARCOPTER

starcopter will exclusively manage all software updates for you. In case of critical safety updates, starcopter will notify you via email, perform a guided update with you and handle all occurring software update issues.



#### 5.8.2 Other Critical UA Systems Limitations:

The UAV's critical systems, including its propulsion, navigation, and communication systems, have specific operational limitations that must be respected. Do not exceed the recommended operational load or payload capacity, as doing so may affect stability, control, and overall system integrity.





# starc Apter

The Highdra

