

SURREY



DRONES IRELAND

Air Space & U.F 101

# Air Space.

## Controlled.

- ▶ Within the Ireland the air space is broken up into different parts.
- ▶ If you want to work inside this airspace you must apply for permission. This is mainly pertaining to CTRs.
- ▶ Your permission still does not give you the right to just go and fly. There will be terms and conditions to your application. Which you must accept. Some ATCs will request you to email them stating that you accept the terms and conditions.
- ▶ Applying for permission has different lead in times than other CTRs.
  - ▶ Waterford & Cork requires 5 days.
  - ▶ Sligo requires 7 days.
  - ▶ Waterford and Sligo require an email back from you stating that you accept the terms and conditions of the application.
  - ▶ If requesting any air space that is inside any of the military Restricted Areas, you will need to apply roughly two weeks in advance.

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- ▶ All applications are a request only. The ATC on the day have the final say on whether you fly or not.
- ▶ You must always be contactable, and two numbers must be provided.
- ▶ By not answering your phone to Air traffic control you could very likely get your SOP & PCC revoked.
- ▶ You must ID your self as a SUA or RPAS operator be professional and don't waste time getting to know the Station Master.
- ▶ Taking all of this into account applying for Permission is very straight forward.
- ▶ After a while you will get very familiar with the process.
- ▶ Let's look at the "U.F 101 SUA Flight in Controlled Airspace Application Form"
- ▶ I have then broken down the application in parts for ease of instruction and understanding.

# Air Space. Application



Form No. U.F.101  
Version No. 9  
Issue Date 19/05/2021  
Page 1 of 1

## UAS Flight in Controlled Airspace Application Form

This Form is for the use of UAS Specific Category & Specific Operations Permission (SOP) holders when applying to the Irish Aviation Authority (Air Traffic Control Operations) to conduct UAS Operations within Controlled Airspace.

### UAS Specific Category / SOP Flight Application Form CLASS C / CTR / TRA /Other

Operator Name	
MySRS Registration No. (16 digit)	
UAS Model	
Remote Pilot(s) Name(s)	
Mobile Phone Numbers (Primary & Alternate)	
Controlled Airspace Location	
Latitude & Longitude (Degrees, Minutes & Seconds)	
Radius of Operation (m)	
Description of the Area (townland, landmark, etc.)	
Maximum Altitude (AMSL)	
Height Above Ground Level (AGL)	
Specific Assurance and Integrity Level (SAIL)	
VHF Capability, Receiver only (Y/N)	
E-Identification (Y/N)	
Proposed Date(s) & Time(s) (Local)	
Duration (HH:MM)	

**Caution:** All survey & risk assessments shall be in consideration of Regulation (EU) 2019/947 Article 11 Operational Risk Assessment. VLOS operations only.

### Map of Location, Area of Operation Aeronautical Chart, etc. (Insert Below)

Copy & Paste Here

For Dublin, Cork & Shannon completed forms must be sent to: [sua airspace@iaa.ie](mailto:sua airspace@iaa.ie)

For Sligo Airport (EISG) completed forms must be sent to: [safetymanager@sligoairport.com](mailto:safetymanager@sligoairport.com)

For Kerry Airport (EIKY) completed forms must be sent to: [atc@kerryairport.ie](mailto:atc@kerryairport.ie)

For Waterford Airport (EIWF) completed forms must be sent to: [sua@waterfordairport.net](mailto:sua@waterfordairport.net)

For Donegal Airport (EIDL) completed forms must be sent to: [sua@donegalairport.ie](mailto:sua@donegalairport.ie)

For Ireland West Airport (EIKN) Completed Form must be sent to: [michaelcornolly@irelandwestairport.com](mailto:michaelcornolly@irelandwestairport.com)

# Air Space. Controlled.

	<p>Form No. U.F.101</p> <p>Version No. 9</p> <p>Issue Date 19/05/2021</p> <p>Page 1 of 1</p>	<p><b>UAS Flight in Controlled Airspace Application Form</b></p>
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Check that you have the Most Up to Date Application Form

This can be got on the IAA website.

<https://www.iaa.ie/general-aviation/drones/drone-application-forms>

# Air Space. Controlled.

1. Straight Forward  
this is all your own  
information.

This Form is for the use of <b>UAS Specific Category &amp; Specific Operations Permission (SOP)</b> holders when applying to the Irish Aviation Authority (Air Traffic Control Operations) to conduct UAS Operations within Controlled Airspace.	
<b>UAS Specific Category / SOP Flight Application Form CLASS C / CTR / TRA /Other</b>	
<b>Operator Name</b>	Survey Drones
<b>MySRS Registration No. (16 digit)</b>	IRL6oknmzd3scw66
<b>UAS Model</b>	Phantom 4 PRO RTK
<b>Remote Pilot(s) Name(s)</b>	Wayne Floyd & Sam Barraclough
<b>Mobile Phone Numbers (Primary &amp; Alternate)</b>	0867795111 & 0856102564
<b>Controlled Airspace Location</b>	Dublin CTR (EIDW)
<b>Latitude &amp; Longitude (Degrees, Minutes &amp; Seconds)</b>	53°20'39.85"N 6°16'15.48"W
<b>Radius of Operation (m)</b>	150meters

3. Using the Pin Drop in Goggle Earth Pro. Once you open the properties you can see the Co-Ords, just copy and paste these onto document.

2. This is the Airport  
ICAO Code.

4. Using the Measure Tool in google Earth Pro you will get this information.

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<b>Description of the Area</b> (townland, landmark, etc.)	Dublin City Center, Wood Quay
<b>Maximum Altitude</b> (AMSL)	372ft
<b>Height Above Ground Level</b> (AGL)	330ft

5. This has got to do with the height of the ground that you are standing on. So lets say that you are standing at the corner of wood Quay and it is 13 meters above Mean Sea Level. You convert that 13 meters into Feet by using a Unit Converter  $13\text{m}=42\text{ft}$ .

Then you look at the flight height in this case, we will say that you intend to fly 100meters high. You again, convert this into feet so  $100\text{m}=330\text{ft}$ . The next step is to add these two figures together

$$\begin{array}{r} 42\text{ft AMSL} \\ +330\text{ft AGL} \\ \hline 372\text{ft Max AMSL height.} \end{array}$$

It will look like this 372ft AMSL/330ft AGL (Above Ground Level) this is your flight height. It has to be added to the AMSL, that way Manned Aircrafts can understand what height you are in relation to them.

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<b>Specific Assurance and Integrity Level (SAIL)</b>	N/A for now, this will change in 2023
<b>VHF Capability, Receiver only (Y/N)</b>	N/A for now, this will change in 2023
<b>E-Identification (Y/N)</b>	N/A for now, this will change in 2023
<b>Proposed Date(s) &amp; Time(s) (Local)</b>	Wednesday 7 <sup>th</sup> July 2021 1400hrs – 1600hrs
<b>Duration (HH:MM)</b>	02:00
<b>Caution: All survey &amp; risk assessments shall be in consideration of Regulation (EU) 2019/947 Article 11 Operational Risk Assessment. VLOS operations only.</b>	
<b>Map of Location, Area of Operation Aeronautical Chart, etc. (Insert Below)</b>	

6. **Specific Assurance & Integrity Level (SAIL) – VHF Capability, Receiver Only – E-Identification** are all at present is to be left N/A

7. When applying for Dates and Time make sure you do not leave yourself short. As you can see from the example that the request here was for just two hours. ATC will give you up to 6 months block.

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9. I use an image that shows the distance from the airport to the location of the flight operations. This gives the risk assessor in IAA a clear understanding of where you are in relation to the Airport.

Change the measurement to Nautical Miles.

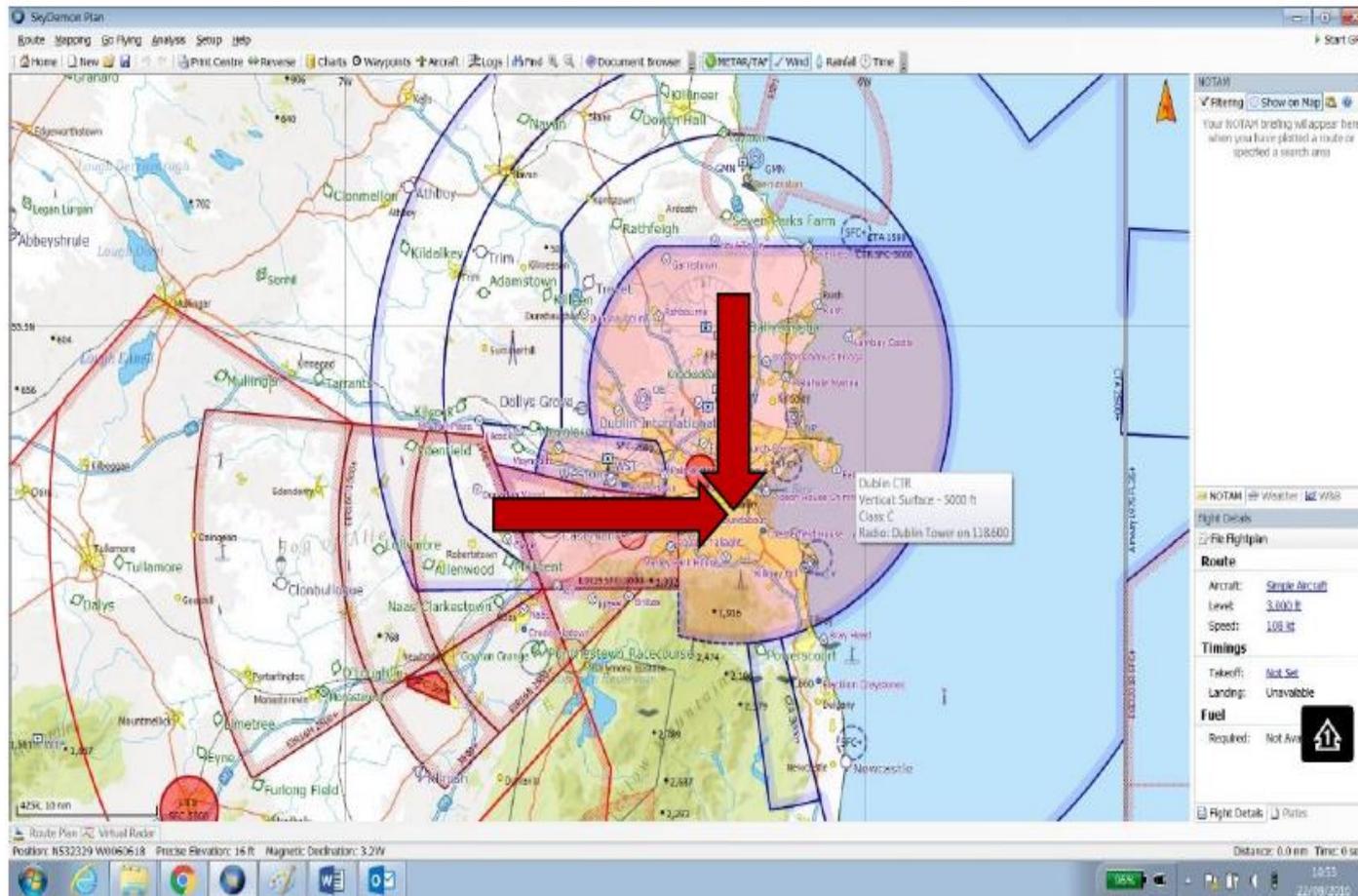


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10. The Radius of Operation, can be calculated using Google Earth Pro Measuring tool. This measurement is given in Meters and will always be rounded up. So, if your radius was 145meters round up to 200meters



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11. Here I am using Sky Demon Screen Shot. This Image is an overview to the location to where I am looking to operate. Please Use the Big red Arrows. This will give the ATC controller a better picture of your location briefly

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12. At the Bottom of the Application you have all the required Emails for the relative airspace that you might be flying in.

Thank you for your attention.

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