

Manufacturer: IDS GeoRadar S.r.l.

Name: Oscar Frau

Product: ROCKSPOT

Title: Project Handler

FCC ID: UFW-ROCKSPOT

Signature: 

MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power dBm	Antenna		EIRP ¹ dBm	EIRP mW	ERP dBm	EIRP ⁵ W	Distance cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	Margin dB	§90.103(c)(13)	
				Gain dBi	EIRP ¹ dBm									EIRP Limit W	PD/PD Limit
FMCW ⁴	10450,0	100	30,68	9	39,68	9289,7	37,53	1,17	30	0,821	1,000	0,85	5	0,821	

¹EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)

²PD = EIRP / (4πx²D²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴See Test Report n° 452156-1TRFWL, p. 16

⁵ERP at antenna port

2.1091 EIRP Limit

1.1307 (b)(3)(i)(C) exemption limit

RF Source Frequency MHz	F MHz	R m	λ m	λ/2π m	R/(λ/2π)	Threshold ERP W	Threshold EIRP W	Threshold EIRP mW	EIRP ⁵ mW	Margin dB
1500-100000	10450,0	0,30	0,029	0,0046	65,66	1,72800	2,834	2834	1169,5	3,84

1.1307 (b)(3)(i)(B) exemption limit

0.3 GHz ≤ f ≤ 1.5 GHz 0.5 cm ≤ d ≤ 20 cm		x	d cm	Pth mW	Threshold EIRP mW	EIRP mW	Margin dB
f GHz	ERP _{20cm} mW						
0.3 GHz ≤ f ≤ 1.5 GHz 20 cm < d ≤ 40 cm				Pth = ERP _{20cm}			
1.5 GHz < f ≤ 6.0 GHz 0.5 cm ≤ d ≤ 20 cm		x	d	Pth mW			
1.5 GHz < f ≤ 6.0 GHz 20 cm < d ≤ 40 cm				Pth = ERP _{20cm} mW			