

Manufacturer: IDS GeoRadar s.r.l.

Name: Roberto Giampaglia

Model: IBIS3D

Title: Laboratory Manager

FCC ID: UFW-IBIS3D

Signature:



MPE limits (§1.1310)

RF Source frequency range (MHz)	Frequency MHz	Duty Cycle %	Output Power ⁴ dBm	Antenna Gain ⁵ dBi	EIRP ¹ dBm	EIRP mW	Distance ⁵ cm	Power Density ² (PD) mW/cm ²	Power Density Limit ³ mW/cm ²	Margin dB	2.1091 EIRP Limit mW	2.1091 EIRP Margin dB
	17000	100	21	12.1	33.1	2042	26	0.2403	1	6.19	2129	0.2

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

²PD = EIRP / (4xπxD²)

³CFR 47 Part 1, §1.1310(e), Table 1, (ii) Limits for General Population/Uncontrolled Exposure

⁴See test report n. REP103002

⁵See User manual

Remark: Simultaneous transmission is not allowed as the two transmitters operate in time division multiplexing mode.

2.1091 EIRP Limit

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

RF Source frequency range (MHz)	Frequency MHz	R ⁵ m	λ m	λ/2π m	R/(λ/2π) ⁶	Threshold ERP ⁷ W	Threshold EIRP W	Threshold EIRP mW	EIRP mW	Margin dB
1,500 - 100,000	17000	0.26	0.0176	0.00281	92.57	1.298	2.129	2129	2042	0.2

⁶R shall be $\geq \lambda/2\pi$

⁷Threshold ERP = 19.2R²