

Manufacturer: TRACKMAN AS

Name: Oscar Frau

Product: TrackMan iO

Title: Project Handler

FCC ID: SFX-TMB0201

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power ⁴ dBm	Antenna		EIRP ¹ dBm	EIRP mW	Distance cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	Margin dB	2.1091 EIRP	2.1091 EIRP	PD/PD Limit
				Gain ⁵ dBi								Limit	Margin	
K-Band	24161,2	100	-2,16	14		11,8	15,3	20	0,003	1,000	25,17	1260	19,16	0,00304

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

²PD = EIRP / (4xπxD²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴See TR REP006325, §8.3.3 (the value is the sum of the two independent RF outputs):

According to ANSI C63.10-2013: EIRP [dBm] = E_{meas} [dBuV/m] + 20*Log(d_{meas} [m]) - 104.7

where distance d_{meas} = 3 (m)

<u>dBuV/m</u>	<u>dBm</u>	<u>mW</u>	sum (dBm) EIRP	sum (mW) EIRP
103,85	8,69	7,40	11,8	15,3
104,13	8,97	7,89		

⁵See "TRACKMAN_TMB0201_Antenna Gain Declaration_Vc.pdf" document

2.1091 EIRP Limit

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

RF Source							Threshold				
Frequency	F	R	λ	λ/2π	R/(λ/2π)	Threshold ERP	EIRP	Threshold EIRP	EIRP	Margin	
MHz	MHz	m	m	m		W	W	mW	mW	dB	
1500-100000	24161,2	0,20	0,012	0,0020	101,2	0,76800	1,260	1260	15,3	19,2	