





RF EXPOSURE REPORT

Applicant	3Dconnexion
Address	7, Boulevard du Jardin Exotique, 98000 Monaco

Manufacturer or Supplier	3Dconnexion		
Address	7, Boulevard du Jardin Exotique, 98000 Monaco		
Product	Numpad Pro		
Brand Name	3Dconnexion		
Model	3DX-600081		
Additional Model & Model Difference	I Soo itome 3.1		
Date of tests	of tests Jun. 28, 2021 ~ Aug. 10, 2021		

- **KDB 447498 D01**
- **⊠** IEEE C95.1

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

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Tested by Andrew Sha	Approved by Glyn He
Project Engineer / EMC Department	Assistant Manager / EMC Department

Date: Mar. 03, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FM2106WDG0230	Original release	Mar. 03, 2022	

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1. CERTIFICATION

FCC ID:	2AAHQ-NPP
PRODUCT:	Numpad Pro
BRAND NAME:	3Dconnexion
MODEL NO.:	3DX-600081
ADDITIONAL NO.:	3DX-600080, 3DX-600082, 3DX-600083, 3DX-600084, 3DX-600085, 3DX-600086, 3DX-600087, 3DX-600088, 3DX-600089, 3DX-600091, 3DX-600092, 3DX-600093, 3DX-600094, 3DX-600095, 3DX-700105
APPLICANT:	3Dconnexion
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1

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2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-(f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device.**



4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE GFSK (1Mbps)	2402-2480	-3	+-2	-5	-1
BT-LE GFSK (2Mbps)	2402-2480	-3	+-2	-5	-1

The measured conducted Average Power

Mode	Frequency	Averaged Power
iviode	(MHz)	(dBm)
BT-LE GFSK (1Mbps)	2402	-2.95
BT-LE GFSK (2Mbps)	2402	-1.32

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	-1	5	0.2467	3.0	7.5	Exempt from SAR

Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.