

Page: 1 of 7

RF EXPOSURE REPORT





FCC Applicant: CviLux Corporation

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FCC Manufacturer: Dongguan Fuchen Electronic Technology Co., Ltd.

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P. R. China

Opro9 PlayRemote **Product Name:**

Brand Name: Opro9

Model No.: FHH128-01-001

Model Difference: N/A

Report Number: TESA2206000164ES

FCC ID 2AA5C-FHH128

Issue Date: July 14, 2023

Date of EUT Received: June 09, 2022

Approved By

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307.

The results of this report relate to the specific sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Page: 2 of 7

Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TESA2206000164ES	00	Original.	February 22, 2023	Susan Lin			
TESA2206000164ES	01	Update applicant address	July 05, 2023	Susan Lin	*		
TESA2206000164ES	02	Update section 2.3 and 2.4	July 14, 2023	Susan Lin	*		

Note:

1 . The remark "*" indicates modification of the report upon requests from certification

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Page: 3 of 7

Contents

1	DE	SCRIPTION OF EQUIPMENT UNDER TEST (EUT)	. 4
		PRODUCT DESCRIPTION	
	1.2	EVALUATION SITE	4
2	DE	TEMINATION OF MPE EXEMPTION	. 5
	2.1	SINGLE RF SOURCE	5
	2.2	MULTIPLE RF Sources	6
	2.3	Single RF Source Evaluation Results	7
	2.4	MULTIPLE RF SOURCES EVALUATION RESULTS	7

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Page: 4 of 7

1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Opro9 PlayRemote
Brand Name:	Opro9
Model No.:	FHH128-01-001
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	FHH12801001S
Power Supply:	3 Vdc

1.2 Evaluation site

Laboratory		Site Address	FCC Designation number	
SGS Taiwan Ltd.	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.		TW0027	
Central RF Lab.		No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	
(TAF code 3702)		1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	

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Page: 5 of 7

DETEMINATION OF MPE EXEMPTION

2.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20 \; cm} (d/20 \; \text{cm})^x & d \leq 20 \; \text{cm} \\ \\ ERP_{20 \; cm} & 20 \; \text{cm} < d \leq 40 \; \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$\mathit{ERP}_{20\;cm}\;(\mathrm{mW}) = \begin{cases} 2040f & 0.3\;\mathrm{GHz} \leq f < 1.5\;\mathrm{GHz} \\ \\ 3060 & 1.5\;\mathrm{GHz} \leq f \leq 6\;\mathrm{GHz} \end{cases}$$

d = the separation distance (cm);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Page: 6 of 7

Table 1 to $\S 1.1307(b)(3)(i)(C) -$

Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)			Minii	mum Dis	tance	Threshold ERP (W)
fL		fH	λL / 2π		λΗ / 2π	
0.3	-	1.34	159m	-	35.6m	1920 R ²
1.34	-	30	35.6m	-	1.6m	3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm	-	0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.2 Multiple RF Sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

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Page: 7 of 7

2.3 Single RF Source Evaluation Results

	Chain 0	Frequency (MHz)	Distance (cm)	Max. tune-up power (dBm)	Max. tune-up power (mW)	Peak gain (dBi)	ERP (dBm)	ERP (mW)	x	ERP _{20cm} (mW)	Pth (mW)	P or ERP /Pth		Simultaneous transmission modes				6
ľ	BLE	2402	0.5	0	1.000	1.5	-0.65	0.861	1.898	3060.00	6.98	0.143	٧					
Į	SRD2.4GHz	2405	0.5	-1.5	0.708	1.5	-2.15	0.610	1.898	3060.00	6.98	0.101	٧					

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the minimum separation distance of that band. All the single RF source results (P or ERP) are less than their corresponding threshold (P_{th} or ERP_{th}), so they are exempt from SAR testing.

2.4 Multiple RF Sources Evaluation Results

Simultaneous transmission modes	Σ P or ERP /Pth	Criteria
1	0.244	1

Note:

Σ(ERP/ERPth): This is a summation of [(ERP of RF source / exemption threshold ERP for RF source)].

Considering the collocated transmitters, the aggregated (ERP/ERPth) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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