

RF EXPOSURE EVALUATION REPORT

APPLICANT: Japan Computer Vision Corp.

PRODUCT NAME : SensePass Face Recognition

Integrated Machine

MODEL NAME: SPS020-OM, SPS020-STD

BRAND NAME: JCV

FCC ID : 2AW3VSPS020

STANDARD(S): FCC 47CFR Part 2(2.1091)

RECEIPT DATE : 2021-07-16

TEST DATE : 2021-07-28 to 2021-08-06

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Change History					
Version Date Reason for change					
1.0	2021-08-23	First edition			



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant: Japan Computer Vision Corp.	
Applicant Address:6F, 2-5-1, Kojimachi, Chiyoda City, Tokyo, 102-0083, Japan	
Manufacturer:	Japan Computer Vision Corp.
Manufacturer Address:	6F, 2-5-1, Kojimachi, Chiyoda City, Tokyo, 102-0083, Japan

1.2 Equipment under Test (EUT) Description

Product Name:	SensePass Face Recognition Integrated Machine			
Sample No.:	6#			
Hardware Version:	V2			
Software Version:	V2.3.1			
Frequency Bands:	WLAN 2.4GHz 2412MHz-2462MHz			
Modulation Mode:	WLAN 2.4GHz DSSS, OFDM			
Antenna Type:	PIFA Antenna			
Antenna Gain:	-5.51dBi			

Note 1: According to the certificate holder, they declared that the models SPS020-OM and SPS020-STD are accordant in both Hardware and Software. The only different between these two models is the model name. Application information of SPS020-OM and SPS020-STD are identical, only except the mentioned above. The main measuring model is SPS020-OM, only the results for SPS020-OM were recorded in this report.





1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method Determination /Remark
FCC 47CFR Part 2(2.1091)	Radio Frequency Radiation Exposure Assessment: mobile devices	No deviation
KDB 447498 D01v06	General RF Exposure Guidance	No deviation

Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 2: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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2. Device Category and RF Exposure Limit

Per user manual, Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

General Population/Uncontrolled Exposure:

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	ength strength Power density (mW/cm²)		Averaging time (minutes)				
(1	(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f²)	30				
30-300	27.5	0.073	0.2	30				
300-1500	-	-	f/1500	30				
1500-100,000	-	-	1.0	30				

f = frequency in MHz* = Plane-wave equivalent power density





3. RF Output Power

2.4GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Power	Duty Cycle %	
	CH 1	2412	18.29	19.00	98.32	
802.11b	CH 6	2437	18.35			
	CH 11	2462	17.73			
	CH 1	2412	15.78	16.50	93.33	
802.11g	CH 6	2437	15.41			
	CH 11	2462	15.54			
802.11n	CH 1	2412	17.15			
602.11fi (HT20)	CH 6	2437	16.69		93.19	
(1120)	CH 11	2462	16.58			

Note 1: According to KDB 447498 Section 4.3, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The output power refers to report (Report No.: SZ21070141W01).





4. RF Exposure Assessment

> Standalone Transmission Assessment:

	Frequency Tune-u (MHz) Power(d	Tune-up	Antenna	E I D D	Power	Limit for
Bands				E.I.R.P.	Density	MPE
		Power(dBm)	Gain(dBi)	(mW)	(mW/cm²)	(mW/cm²)
WLAN 2.4GHz	2437	19.00	-5.51	22.34	0.004	1.0

Note:

- According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
- 2. MPE calculate method

Power Density = E.I.R.P./ 4π R²

Where: E.I.R.P. = P+G

P = Output Power (dBm) G = Antenna Gain (dBi)

R = Separation Distance (20cm)

> Simultaneous Transmission Assessment:

This device only incorporates a WLAN 2.4G transmitter, therefore simultaneous SAR assessment is not required.

> Conclusion:

According to 47 CFR §2.1091, this device complies with human exposure basic restrictions.





Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
Laboratory Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong		
	Province, P. R. China		
Telephone:	+86 755 36698555		
Facsimile:	+86 755 36698525		

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.			
	FL.3, Building A, FeiYang Science Park, No.8 LongChang			
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong			
	Province, P. R. China			

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

 END OF REPORT	

Shenzhen Morlab Communications Technology Co., Ltd.

