

## RF Exposure Report

**Report No.:** SABEIH-WTW-P21040843

**FCC ID:** P27XHC3

**Test Model:** XHC3

**Series Model:** XHC3xxxxxxx, SCHC3AExxxxxxxx  
(the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

**Received Date:** Apr. 22, 2021

**Test Date:** May 7 to 28, 2021

**Issued Date:** Jun. 9, 2021

**Applicant:** Sercomm Corp.

**Address:** 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**FCC Registration /  
Designation Number:** 198487 / TW2021



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

## Table of Contents

<b>Release Control Record</b> .....	<b>3</b>
<b>1 Certificate of Conformity</b> .....	<b>4</b>
<b>2 RF Exposure</b> .....	<b>5</b>
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula .....	5
2.3 Classification .....	5
2.4 Antenna Gain .....	5
2.5 Calculation Result Of Maximum Conducted Power .....	6

### Release Control Record

Issue No.	Description	Date Issued
SABEIH-WTW-P21040843	Original release.	Jun. 9, 2021

## 1 Certificate of Conformity

**Product:** Comcast Xfinity Low Cost Camera

**Brand:** Sercomm, Comcast, Xfinity

**Test Model:** XHC3

**Series Model:** XHC3xxxxxxx, SCHC3AExxxxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

**Sample Status:** Engineering sample

**Applicant:** Sercomm Corp.

**Test Date:** May 7 to 28, 2021

**Standards:** FCC Part 2 (Section 2.1091)

**References Test Guidance:** KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Annie Chang, **Date:** Jun. 9, 2021  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai, **Date:** Jun. 9, 2021  
Rex Lai / Associate Technical Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	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

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

### 2.3 Classification

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

### 2.4 Antenna Gain

Function	Frequency (MHz)	Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)	Antenna Type	Connector
WLAN	2400	2.65	2.02	Dipole	IPEX
WLAN	2450	2.02	2.05		
WLAN	2500	2.13	2.11		
WLAN	5150	4.62	4.12		
WLAN	5500	4.71	4.52		
WLAN	5850	4.63	4.65		
BT LE	2400	2.65	-		
BT LE	2450	2.02	-		
BT LE	2500	2.13	-		

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.5 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN	2412-2462	23.02	5.66	20	0.1468	1
WLAN	5180-5240	18.04	7.72	20	0.0749	1
WLAN	5260-5320	18.02	7.72	20	0.0746	1
WLAN	5500-5700	23.04	7.72	20	0.2370	1
WLAN	5745-5825	23.11	7.72	20	0.2408	1
BT LE	2402-2480	3.54	2.65	20	0.0008	1

Note:

2.4GHz Directional gain =  $2.65\text{dBi} + 10\log(2) = 5.66\text{dBi}$

5.0GHz Directional gain =  $4.71\text{dBi} + 10\log(2) = 7.72\text{dBi}$

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 2.4GHz & 5GHz WLAN technologies cannot transmit at same time.  
WLAN & Bluetooth technologies cannot transmit at same time.

--- END ---