

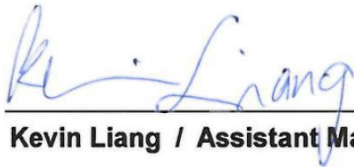
# Maximum Permissible Exposure

**Equipment** : Smart Baby Monitor  
**Brand Name** : **PHILIPS**  
**Model No.** : SCD860/XX, SCD870XX , X=0~9  
**FCC ID** : 2AEFK-SCD860  
**Standard** : ANSI/IEEE C95.1  
**Applicant** : **Philips Consumer Lifestyle**  
High Tech Campus Building 37 G/F, Eindhoven,  
the Netherlands  
**Manufacturer** : **GEMTEK TECHNOLOGY CO LTD**  
15-1 ZHONGHUA RD HSINCHU INDUSTRIAL  
PARK HUKOU HSINCHU HSIEN 303 TAIWAN

The product sample received on Aug. 25, 2014 and completely tested on Oct. 09, 2014. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI/IEEE C95.1 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Kevin Liang / Assistant Manager





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# 1 Human Exposure Assessment

## 1.1 Maximum Permissible Exposure

### 1.1.1 Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6
Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
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
Note 1: f = frequency in MHz ; *Plane-wave equivalent power density Note 2: For the applicable limit, see FCC 1.1310				

### 1.1.2 MPE Calculation Method

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



1.1.3 Result of Maximum Permissible Exposure (2.4GHz)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11 Protocol	Ch. Frequency (MHz)	Channel Number	Number of Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)
2400-2483.5	b	2412-2462	1-11 [11]	1	23.25
2400-2483.5	g	2412-2462	1-11 [11]	1	21.99
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	22.02
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	23.92

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.

Worst Maximum RF Output Power Result						
Exposure Environment	General Population / Uncontrolled Exposure					
Separation Distance (cm)	20					
Condition	RF Output Power (dBm)					
Modulation Mode	Chain Port 1	Chain Port 2	Sum Chain	Ant. Gain (dBi)	EIRP Power	PD (S) (mW/cm <sup>2</sup> )
n (HT20)	20.98	20.85	23.92	2.26	26.18	0.08246
<b>Maximum Permissible Exposure Limit (mW/cm<sup>2</sup>)</b>						<b>1</b>

Note 1: N<sub>TX</sub> = Number of Transmit Chains