

FCC Test Report			
FCC Rule(s):	FCC Part 15.247		
Applicant:	Comelit Group Spa		
Product Name:	Smart video doorbell		
Model:	CM96201FRW-CMS		
FCC ID:	2ANSRCM96201FRW-CMS		
Report No.:	<u>ZKS170900084E-1</u>		
Tested Date:	2017-07-01 to 2017-07-06		
Issued Date:	2017-07-07		
Tested By :	Lieber Ouyang (Engineer)		
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Note: This test report is limited to the above client company and the product model only. It may not be			
duplicated without prior permitted by Sh	nenznen ZRLK Lesting Lechnology Co., Ltd.		



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# **1. General Information**

## **1.1 Product Information**

Applicant and Manufacturer	
Applicant:	Comelit Group Spa
Address of Applicant:	via Don Arrigoni 5 san Lorenzo di Rovetta Bergamo Italy
Manufacturer:	Zhong Shan Jesmay Electronics Co., Ltd
Address of Manufacturer:	First Industry District, Tan Zhou Canton, Zhong Shan, China

General Description of EUT	
Product Name:	Smart video doorbell
Model No.:	CM96201FRW-CMS
Trade Name:	Comelit
Adding Model(s):	
Class of Equipment:	DTS
Rated Voltage:	DC 12V
Hardware Version:	V4.1.0.0
Software Version:	V1.0
Eraguanay Danga:	2412-2462MHz for 802.11b/g/n(HT20)
Frequency Kange.	2422-2452MHz for 802.11n(HT40)
Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Type of Antenna:	SMD Antenna
Antenna Gain:	0dBi
Note 1: The test data is gather	ed from a production sample, provided by the manufacturer.



## **1.2 Compliance Standards**

Compliance Standards or Rules		
ECC Dort 15 Submort C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY	
FCC Part 15 Subpart C	DEVICES, Intentional Radiators	
ECC Dart 15 247	Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850	
FCC Part 15.247	MHz.	
The objective of the manufacturer or applicant is to demonstrate compliance with the above standards.		
According to standards for test methodology		
ANSLC62 10 2012	American National Standard for Testing Unlicensed Wireless Devices	
ANSI C03.10-2015	Accredited Standards Committee C63®—Electromagnetic Compatibility	
All measurements contained in this report were conducted with all above standards		
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the		
product, which result is lowering the emission, should be checked to ensure compliance has been maintained.		

## **1.3 Test Facilities**

<b>Testing Lab: Global United</b>	Technology Services Co., Ltd.

The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L5775.

The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are **600491**.

The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are **9079A-2**.

All measurement facilities used to collect the measurement data are located at No.301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



## 1.4 Test Setup Information

List of Test Modes				
Test Mode	Description	Remark		
TM1	802.11b	2412MHz/243	7MHz/2462MHz	
TM2	802.11g	2412MHz/243	7MHz/2462MHz	
TM3	802.11n-HT20	2412MHz/2437MHz/2462MHz		
TM4	802.11n-HT40	2422MHz/2437MHz/2452MHz		
TM5	Operating			
List and Details of Auxiliary Equipment				
Description	Manufacturer	Model	Serial Number	
AC-AC transformer	Jesmay	1610		
AC-DC transformer	Jesmay	Art.3522		
Notebook	Lenovo	E40		
Note: The equipment under test (EUT) was configured to measure its highest possible emission level.				

Power Setting Table			
Mode	Data Rate	TX Power Level	Worst Case
802.11b	1~11Mbps	0D	11Mpbs
802.11g	6~54Mbps	0D	54Mpbs
802.11n-HT20	6.5~65Mbps	0D	65Mbps
802.11n-HT40	13~130Mbps	0D	130Mbps
Note 1: The Wi-Fi is connected to a notebook through a USB port, and to use a test set software (MT7601 USB			
V1.0.6.0) to control the Wi-Fi device work in different modes, e.g. CCK, OFDM, HT-MixMode etc.			
Note 2: The Wi-Fi has been tested under continuous transmission mode, and set the duty cycle of 99%.			
Note 3: The Wi-Fi has been tested on each data rate, and record the worst case.			

## **1.5 Measurement Uncertainty**

Parameter	Conditions	Uncertainty	
Conducted Emissions	9kHz~30MHz	±2.79 dB	
Radiated Emissions	9kHz~30MHz	$\pm$ 4.12 dB	
	30MHz ~ 1GHz	$\pm 4.16 \text{ dB}$	
	1GHz ~ 18GHz	$\pm$ 5.97dB	
	18GHz~26.5GHz	$\pm 6.71$ dB	



Description	Manufacturer	Model	Cal. Date	Due. Date
EMI Test Receiver	R&S	ESCI 7	April.25 2017	April. 24 2018
Coaxial Switch	ANRITSU CORP	MP59B	April.25 2017	April. 24 2018
Artificial Mains Network	SCHWARZBECK	NSLK8127	April.25 2017	April. 24 2018
ESU EMI Test Receiver	R&S	ESU26	April.25 2017	April. 24 2018
BiConiLog Antenna	SCHWARZBECK	VULB9163	April.25 2017	April. 24 2018
Double-ridged horn antenna	SCHWARZBECK	9120D	April.25 2017	April. 24 2018
Horn Antenna	ETS-LINDGREN	3160-09	April.25 2017	April. 24 2018
Loop Antenna	SCHWARZBECK	FMZB 1519	April.25 2017	April. 24 2018
RF Amplifier	HP	8347A	April.25 2017	April. 24 2018
Broadband	SCHWAR7BECK	BBV0718	April 25 2017	April 24 2018
Preamplifier	SCHWARZDECK	<b>DD v</b> <i>9</i> / 10	April.23 2017	April. 24 2018
EMI Test Software	AUDIX	E3	N/A	N/A
Coaxial Cable	GTS	9kHz-1GHz	April.25 2017	April. 24 2018
Coaxial Cable	GTS	1GHz-18GHz	April.25 2017	April. 24 2018
Coaxial Cable	GTS	18GHz-40GHz	April.25 2017	April. 24 2018
Spectrum Analyzer	Agilent	E4407B	April.25 2017	April. 24 2018
Temporary Antenna Connector	ZRLK	SMA-01	April.25 2017	April. 24 2018
Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and				
this temporary antenna connector is listed in the equipment list.				

## 1.6 List of Test and Measurement Instruments



# 2. Summary of Test Results

FCC Rules	Description of Test Items	Result		
FCC Part 2.1093	RF Exposure	Passed		
FCC Part 15.203, FCC Part 15.247(b)(4)(i)	Antenna Requirement	Passed		
FCC Part 15.205	Restricted Band of Operation	Passed		
FCC Part 15.207(a)	Conducted Emission	Passed		
FCC Part 15.209(a)	Radiated Spurious Emissions	Passed		
FCC Part 15.247(a)(2)	6dB Bandwidth	Passed		
FCC Part 15.247(e)	Power Spectral Density	Passed		
FCC Part 15.247(b)(3)	RF Power Output	Passed		
FCC Part 15.247(d)	Band Edge (Out of Band Emissions)	Passed		
Passed: The EUT complies with the essential requirements in the standard				
Failed: The EUT does not comply with the essential requirements in the standard				
N/A: Not applicable				



## 3. Antenna Requirement

## 3.1 Standard and Limit

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

## 3.2 Test Result

This product has a permanent antenna (SMD antenna), fulfill the requirement of this section.



## 4. Power Spectral Density

## 4.1 Standard and Limit

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

## 4.2 Test Procedure

According to the KDB 558074 D01 V04, the test method of power spectral density as below:

a) Set analyzer center frequency to DTS channel center frequency.

- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: 3 kHz  $\leq$  RBW  $\leq$  100 kHz.
- d) Set the VBW  $\geq$  3  $\times$  RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-11.58	8
802.11b_11Mbps	2437	-12.28	8
	2462	-11.91	8
	2412	-14.13	8
802.11g_54Mbps	2437	-14.81	8
	2462	-14.23	8
	2412	-14.42	8
802.11n-HT20_65Mbps	2437	-15.52	8
	2462	-15.31	8
802.11n-HT40_130Mbps	2422	-18.83	8
	2437	-18.99	8
	2452	-19.42	8

### 4.3 Test Data and Results









802.11n-HT40



Freq Offset

Signal Track

Scale Type

Span 22.97 MHz Sweep 2.627 s (1001 pts)



2 GH

•VBH 10 kHz

Center 2.462 G Res BN 3 kHz

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## 5.6dB Bandwidth

## 5.1 Standard and Limit

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

## **5.2 Test Procedure**

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW)  $\geq$  3  $\times$  RBW.

- c) Detector = Peak.
- d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Mede	Test Channel	6dB Bandwidth	99% Bandwidth
lest widde	MHz	MHz	MHz
	2412	8.360	12.1009
802.11b_11Mbps	2437	8.348	12.1158
	2462	9.084	12.2233
	2412	16.498	16.4484
802.11g_54Mbps	2437	16.477	16.4238
	2462	16.465	16.4443
	2412	17.585	17.5188
802.11n-HT20_65Mbps	2437	17.598	17.5103
	2462	17.458	17.5015
	2422	35.505	35.8232
802.11n-HT40_130Mbps	2437	35.238	35.7552
	2452	35.548	35.7783

### 5.3 Test Data and Results











# 6. RF Output Power

## 6.1 Standard and Limit

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

## 6.2 Test Procedure

According to the KDB-558074 D01 v04, 9.2.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

a) Set span to at least 1.5 times the OBW.

b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

c) Set VBW  $\geq 3 \times RBW$ .

d) Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This gives bin-to-bin spacing  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)

e) Sweep time = auto.

f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\ge$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to"free run".

h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

## 6.3 Test Data and Results



Tost Modo	Frequency	Measured Value	<b>Output Power</b>	Limit
Test Widde	MHz	dBm	mW	mW
	2412	9.94	9.863	1000
802.11b_11Mbps	2437	9.46	8.831	1000
	2462	9.88	9.727	1000
	2412	4.11	2.576	1000
802.11g_54Mbps	2437	3.96	2.489	1000
	2462	4.61	2.891	1000
	2412	4.31	2.698	1000
802.11n-HT20_65Mbps	2437	3.98	2.500	1000
	2462	4.44	2.780	1000
	2422	2.21	1.663	1000
802.11n-HT40_130Mbps	2437	2.32	1.706	1000
	2452	2.54	1.795	1000
Note: the antenna gain of OdBi loss than 6dBi maximum permission antenna gain value based on L watt peak				

Note: the antenna gain of 0dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.











# 7. Field Strength of Spurious Emissions

## 7.1 Standard and Limit

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.209(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious radiated emissions measurements starting below or at the lowest crystal frequency.

Frequency of Emission (MHz)	Field Strength (uV/m)Field Strength (dE		gth (dBuV/m)
	QP	QP	AV
30-88	100	40	
88-216	150	43.5	
216-960	200	46	
Above 960	500	54	74
Limits at a measurement distance of	3 m		

#### The general limits in FCC Part 15.209

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious radiated emissions measurements starting below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

## 7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.







Test Setup Block Diagram below 30MHz



Test Setup Block Diagram for 30MHz-1GHz





Test Setup Block Diagram above 1GHz

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Frequency: 9kHz-30MHz	Frequency: 30MHz-1GHz	Frequency: Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

### 7.3 Test Data and Results

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst case:



### Worst case\_TM1 mode (802.11b-2412MHz)

Test Plots and Data of Radiated Emissions (30MHz to 1GHz)		
Tested Model:	CM96201FRW-CMS	
Tested Mode:	TM1(11Mbps, Low Channel)	
Test Power Specification:	AC 120V/60Hz	
Test Antenna Polarization:	Horizontal	





Test Plots and Data of Radiated Emissions (30MHz to 1GHz)		
Tested Model:	CM96201FRW-CMS	
Tested Mode:	TM1(11Mbps, Low Channel)	
Test Power Specification:	AC 120V/60Hz	
Test Antenna Polarization:	Vertical	





### Worst case\_TM1 mode

Test Plots and Data of Radiated Emissions (1GHz to 25GHz)		
Tested Model:	CM96201FRW-CMS	
Tested Mode:	TM1(11Mbps)	
Test Power Specification:	AC 120V/60Hz	
Remark:		

Frequency	Correct	Result	Limit	Margin	Detector	Polar
(MHz)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	PK/AV	H/V
		802.11b-	Low Channel (24	12MHz)		
4824	8.29	57.07	74	-16.93	РК	Н
4824	8.29	47.06	54	-6.94	AV	Н
4824	8.29	60.98	74	-13.02	РК	V
4824	8.29	50.12	54	-3.88	AV	V
	-	802.11b-N	Aiddle Channel (2	2437MHz)	·	
4874	8.40	62.11	74	-11.89	РК	Н
4874	8.40	51.55	54	-2.45	AV	Н
4874	8.40	59.97	74	-14.03	РК	V
4874	8.40	48.83	54	-5.17	AV	V
802.11b-High Channel (2462MHz)						
4924	8.50	58.69	74	-15.31	РК	Н
4924	8.50	46.78	54	-7.22	AV	Н
4924	8.50	60.42	74	-13.58	РК	V
4924	8.50	49.08	54	-4.92	AV	V

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

## 8. Out of Band Emissions

## 8.1 Standard and Limit

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.209(a), must also comply with the radiated emission limits specified in §15.209(a).

### **8.2 Test Procedure**

According to the ANSI C63.10, the band-edge radiated test method as follows.

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2410MHz for low bandedge, 2470MHz to 2500MHz for the high bandedge) RBW = 1MHz, VBW = 3MHz for peak value measured RBW = 1MHz, VBW = 10Hz for average value measured Sweep = auto; Detector function = peak; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation porduct outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

## 8.3 Test Data and Results



#### 802.11b-Bandedge (Worst case)

Vertical (Worst case)





### 802.11b-Highest Bandege







### 802.11g-Lowest Bandege

Vertical (Worst case)





### 802.11g-Highest Bandege

Vertical (Worst case)





#### 802.11n (HT20)-Lowest Bandege

Vertical (Worst case)





### 802.11n (HT20)-Highest Bandege

Vertical (Worst case)





#### 802.11n (HT40)-Lowest Bandege

Vertical (Worst case)





802.11n (HT40)-Highest Bandege

Vertical (Worst case)



# 9. Conducted Emissions

## 9.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted limit, the limit for a class B device as below:

Frequency of Emission (MHz)	Conducted Limit (dBuV)		
	Quasi-peak	Average	
0.15-0.5	66 to 56	56 to 46	
0.5-5	56	46	
5-30	60	50	
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz			
Note 2: The lower limit applies at the band edges			

AC Power Line

## 9.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2013 measurement procedure.



Test Setup Block Diagram

## 9.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a Class B device, and with the worst case as below:





Test Plots and Data of Conducted Emissions		
Tested Model:	CM96201FRW-CMS	
Tested Mode:	TM5	
Test Power Specification:	AC 120V/60Hz	
Test Power Line:	Neutral	







Test Plots and Data of Conducted Emissions		
Tested Model:	CM96201FRW-CMS	
Tested Mode:	TM5	
Test Power Specification:	AC 120V/60Hz	
Test Power Line:	Line	





# **Annex A. EUT External Photos**

#### EUT View 1



#### EUT View 2



Report No: ZKS170900084E-1



EUT View 4



EUT View 3





#### EUT View 5



#### EUT View 6







### EUT View 7



#### EUT View 8





## **Annex B. EUT Internal Photos**

### **EUT Internal View 1**



**EUT Internal View 2** 









## EUT Internal View 3





## EUT Internal View 5



## EUT Internal View 6





# Annex C. Test Photos

## **Conducted Emission**



## Radiated Emissions (30MHz to 1GHz)





## Radiated Emissions (Above 1GHz)





## Annex D. Label and Information

#### FCC Label Sample



#### **FCC Label Specifications**

Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. Where the EUT is constructed in two or more sections connected by wires and marketed together, the above statement is required to be affixed only to the main control unit. When the EUT is so small or for such use that it is not practicable to place the statement on it, the above information shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

#### FCC Label Location



#### \*\*\*\*\* END OF REPORT \*\*\*\*\*