



BUREAU  
VERITAS

Test Report No.: FS161121N036

## RF EXPOSURE REPORT

Applicant	SZ Telstar CO.,LTD
Address	Telstar Technology Park No.12~14,Gangbei Industrial Zone, Ailian, Longgang District, ShenZhen

Manufacturer or Supplier	SZ Telstar CO.,LTD
Address	Telstar Technology Park No.12~14,Gangbei Industrial Zone, Ailian, Longgang District, ShenZhen
Product	Projector
Brand Name	miroir
Model	MP230
Additional Model & Model Difference	M300A
Date of tests	Nov. 23, 2016 ~ Dec. 01, 2016

**FCC Part 2 (Section 2.1091)**

**KDB 447498 D01**

**IEEE C95.1**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department

Date: Dec. 22, 2016

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS161121N036	Original release	Dec. 22, 2016



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## 1. CERTIFICATION

<b>FCC ID:</b>	2AFOW-230MIROIR
<b>PRODUCT:</b>	Projector
<b>BRAND NAME:</b>	miroir
<b>MODEL NO.:</b>	MP230
<b>ADDITIONAL NO.:</b>	M300A
<b>APPLICANT:</b>	SZ Telstar CO.,LTD
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

**NOTE:**

1. Additional mode M300A is identical with the test model MP230, except the model number and brand name for marketing purpose.



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## 2. RF EXPOSURE LIMIT

### 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = 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

## 4. 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**.



## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2.89	Integral FPCB Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2402-2480(BT2.1)	0.6761	2.89	20	0.000262	1.0
2402-2480(BT-LE)	6.887	2.89	20	0.002665	1.0
2412-2462(WLAN)	109.144	2.89	20	0.042241	1.0

### CONCLUSION:

The WLAN2.4GHz and BT can transmit simultaneously, the formula of calculated the MPE is:

$$CPD_1 / LPD_1 + CPD_2 / LPD_2 + \dots \text{etc.} < 1$$

**CPD** = Calculation power density

**LPD** = Limit of power density

Therefore, the worst-case situation is  $0.000262 / 1 + 0.002665 / 1 + 0.042241 / 1 = 0.045168$ , which is less than "1". This confirmed that the device comply with FCC 1.1310 MPE limit.

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