

RF EXPOSURE REPORT

REPORT NO.: SA130715C29

MODEL NO.: WAP-7420

FCC ID: 2AATB-000002

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APPLICANT: TATUNG TECHNOLOGY INC

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-------------|-------------------|---------------|
| SA130715C29 | Original release | Aug. 14, 2013 |

1. CERTIFICATION

PRODUCT: Video Bridge

MODEL: WAP-7420

BRAND: TATUNG TECHNOLOGY INC

APPLICANT: TATUNG TECHNOLOGY INC

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: WAP-7420) 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 EMC characteristics under the conditions specified in this report.

PREPARED BY : Vera Huang , **DATE** : Aug. 14, 2013
Vera Huang / Specialist

APPROVED BY : Gordon Lin , **DATE** : Aug. 14, 2013
Gordon Lin / Assistant 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 ²) | AVERAGE TIME (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE | | | | |
| 300-1500 | ... | ... | F/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

F = Frequency in MHz

2.2 MPE CALCULATION FORMULA

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

| Frequency band (MHz) | Conducted Avg. power (dBm) | Antenna Gain (dBi) | E.I.R.P. (mW) | Power Density (mW/cm ²) | Limit (mW/cm ²) |
|----------------------|----------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 5190-5230 | 16.02 | 9.01 | 318.42 | 0.063 | 1 |
| 5755-5795 | 21.82 | 8.67 | 1119.44 | 0.223 | 1 |

Note:

For 5190-5230: Directional gain = 2.99dBi + 10log(4) = 9.01dBi

For 5755-5795: Directional gain = 2.65dBi + 10log(4) = 8.67dBi