FCC RF EXPOSURE REPORT

FCC ID: OFJCW-F25-140401

Project No.	**: 1405C020**
Equipment	**: Wireless Video Transmission System**
Model	**: CW-F25; CW-F25 TX; CW-F25 RX**
Applicant	**: IDX Company, Ltd.**
Address	**: 6-28-11 Shukugawara, Tama-ku, Kanagawa, Kawasaki, Japan**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1**

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

where:
S = power density
P = power input to the antenna
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

Table for Filed Antenna

Group 1 of Dipole Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
A	Wanshih Electronic Co., Ltd.	WA1R5847A	Dipole	N/A	2.0	Note(1)
B	Wanshih Electronic Co., Ltd.	WA1R5847A	Dipole	N/A	2.0	Note(1)
C	Wanshih Electronic Co., Ltd.	WA1R5847A	Dipole	N/A	2.0	Note(1)
D	Wanshih Electronic Co., Ltd.	WA1R5847A	Dipole	N/A	2.0	Note(1)

Group 2 of MIMO Panel Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
A	IDX	TCTD5800-18 M20M	MIMO Panel Antenna	N/A	18	Note(2)
B	IDX	TCTD5800-18 M20M	MIMO Panel Antenna	N/A	18	Note(2)
C	IDX	TCTD5800-18 M20M	MIMO Panel Antenna	N/A	18	Note(2)
D	IDX	TCTD5800-18 M20M	MIMO Panel Antenna	N/A	18	Note(2)

Note:
(1) The EUT incorporates a MIMO function. Physically, the EUT provides four completed four transmitters and four receivers (4T4R).
(2) For Group 2 of MIMO Panel Antenna gain, customer sells product with attenuating pad and 3 meter of cable, attenuating pad will loss 20dBi gain, 3 meter of cable will loss 3 dBi gain, so the final evaluated of gain is -5dBi.

TEST RESULTS

UNII-1

EUT：	Wireless Video Transmission System	Model Name :	CW-F25; CW-F25 TX; CW-F25 RX
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX N40 MODE_Total /CH38, CH46		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.84	48.3059	0.01523879	1	Complies
2	1.5849	16.83	48.1948	0.01520374	1	Complies

UNII-2A

EUT：	Wireless Video Transmission System	Model Name :	CW-F25; CW-F25 TX; CW-F25 RX
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	TX N40 MODE_Total /CH54, CH62		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.16	41.3048	0.01303018	1	Complies
2	1.5849	16.18	41.4954	0.01309032	1	Complies

UNII-2C

EUT：	Wireless Video Transmission System	Model Name :	CW-F25; CW-F25 TX; CW-F25 RX
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE_Total /CH102, CH110, CH134		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.3	42.6580	0.01345707	1	Complies
2	1.5849	17.54	56.7545	0.01790401	1	Complies
2	1.5849	17.59	57.4116	0.01811133	1	Complies

UNII-3

EUT：	Wireless Video Transmission System	Model Name :	CW-F25; CW-F25 TX; CW-F25 RX
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40M MODE_Total /CH151, CH159		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	25.77	377.5722	0.11911059	1	Complies
2	1.5849	25.73	374.1106	0.11801858	1	Complies

Note: the calculated distance is 20 cm.