Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1608088F FCC ID: 2AEQTMN9014E

## RF EXPOSURE EVALUATION EUT Specification

EUT	Driving Video Recorder					
Frequency band	⊠WLAN: 2.437GHz					
(Operating)	□WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz					
	□WLAN: 5.745GHz ~ 5825GHz					
	□Others(Bluetooth: 2.402GHz ~ 2.480GHz)					
Device category	☐Portable (<20cm separation)					
	⊠Mobile (>20cm separation)					
	Others					
Antenna diversity	⊠Single antenna					
	☐Multiple antennas					
	☐Tx diversity					
	☐Rx diversity					
	☐Tx/Rx diversity					
Max. output power	8.03dBm(6.35mW)					
Antenna gain	2.0dBi					
Evaluation applied	⊠MPE Evaluation					
	☐SAR Evaluation					

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time				
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )					
(A) Limits for Occupational/Control Exposures								
300-1500			F/300	6				
1500-100000			5	6				
(B) Limits for General Population/Uncontrol Exposures								
300-1500			F/1500	6				
1500-100000			1	30				

## Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R²)

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

Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

## **Measurement Result**

Channel	Max	Tolerance	Max	Power	Power			
Frequency	Output		Tune-UP	density at	density			
(MHz)	power		power	20cm (mW/	Limits			
	(dBm)		(mW)	cm <sup>2</sup> )	(mW/cm <sup>2</sup> )			
Test mode: 802.11g								
2437	8.03	±0.1	6.50	0.0020	1			

According to KDB447498 D01 V06, no simultaneous SAR measurement is required.