

RF Exposure Evaluation Report

Product Name : IP Aux Camera WiFi Side Mount/IP Aux Camera WiFi Rear Mount

Model No. : DC-ACW-01 / DC-ACW-02

FCC ID : UO3DCACW

Applicant : Lytx, Inc.

Address : 9785 Towne Centre Drive, San Diego, California 92121

Date of Receipt : Oct. 22, 2021

Date of Declaration : Nov. 17, 2021

Report No. : 21A0736R-RFUSMPEV02-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Nov. 17, 2021

Report No.: 21A0736R-RFUSMPEV02-A



Product Name	IP Aux Camera WiFi Side Mount/IP Aux Camera WiFi Rear Mount	
Applicant	Lytx, Inc.	
Address	9785 Towne Centre Drive, San Diego, California 92121	
Manufacturer	Lytx, Inc.	
Model No.	DC-ACW-01 / DC-ACW-02	
FCC ID.	U03DCACW	
Trade Name	Lytx	
Applicable Standard	KDB 447498 D01 v06	<input checked="" type="checkbox"/> Minimum test separation distance \geq 20 cm <input type="checkbox"/> For low power devices
Test Result	Complied	

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Tested By : Alan Chen
 (Senior Engineer / Alan Chen)

Approved By : Tim Sung
 (Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
21A0736R-RFUSMPEV02-A	V1.0	Initial issue of report.	2021-11-17

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	IP Aux Camera WiFi Side Mount/IP Aux Camera WiFi Rear Mount
Trade Name	Lytx
Model No.	DC-ACW-01 / DC-ACW-02
FCC ID.	UO3DCACW
Frequency Range	802.11b/g/n-20BW: 2412-2462MHz
Number of Channels	802.11b/g/n-20MHz: 11
Data Rate	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 72.2Mbps
Channel Separation	802.11b/g/n: 5 MHz
Type of Modulation	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	PIFA Antenna
Channel Control	Auto
Antenna Gain	Refer to the table "Antenna List"

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Grand-Tek Technology CO., Ltd.	YR0374506070020	PIFA Antenna	5.3dBi for 2.4 GHz

Note: The antenna of EUT is conforming to FCC 15.203.

2. RF Exposure Evaluation

2.1. Standard Applicable

According to KDB 447498 D01 (7.1), A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits.

2.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission 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

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0

2.3. Test Result of RF Exposure Evaluation

Product : IP Aux Camera WiFi Side Mount/IP Aux Camera WiFi Rear Mount
Test Item : RF Exposure Evaluation

WLAN 2.4G Peak Gain: 5.3dBi

Band	Frequency (MHz)	Conducted maximum Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
2.4G	2462	22.23	167.109	0.1126	1	Pass

Note: The Maximum conducted output power is refer to report No.: 21A0736R-RFUSWL2V01-A from the DEKRA.