Radio Test Report

Report No.: CTA231109001H01

Issued for

ABN SYSTEMS INTERNATIONAL S.A.

CTA TESTING Str. Marinarilor, nr. 31, Sector 1, Bucuresti, Romania

CTA TESTING Solar Camera PTZ **Product Name:**

Brand Name: Tellur

Model Name: TLL331551

Series Model(s): N/A

> 2A74I-TLL331551 FCC ID:

FCC 47CFR §2.1091 Test Standard:

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TEST REPORT

	Applicant's Name:	ABN SYS	TEMS INTERNATIONAL S.A.	
	Address:	Str. Marina	arilor, nr. 31, Sector 1, Bucuresti, Romania	
		303 3/F N	EN MAGWELL TECHNOLOGY CO., LIMITED lo12-1, Da He industrial Zone, Guan Cheng competreet, Longhua district shenzhen city, Guangdong China	munity g
	Product Description			
	Product Name:	Solar Can	mera PTZ	
CTATI	Brand Name:	Tellur		
7	Model Name:		51	
	Series Model(s):	N/A		
	Test Standards	FCC 47CF	FR §2.1091 001 Interim General RF Exposure Guidance v06	
		ed except in	n full, without the written approval of CTA, this docu only, and shall be noted in the revision of the docun	
	Date of Test	·····:		
	Date of receipt of test item	:	30 Aug. 2023	
	Date (s) of performance of tests.	:	30 Aug. 2023 ~ 17 Nov. 2023	
	Date of Issue	:	17 Nov. 2023	
	Test Result	CTP CTP	Pass	
			CTATESTING	

Testing Engineer :	Joey Cow	
Technical Manager	(Zoey Cao)	CTATESTING
	(Amy Wen)	CAN
Authorized Signatory :	Eric Wang	
Authorized Signatory :	(Eric Wang)	
	(Eric Wang)	

GTA TESTING

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Revision History

Revision History								
Rev.	Issue Date	Report No.	Effect Page	Contents				
00	17 Nov. 2023	CTA231109001H01	ALL	Initial Issue				
		CONT.		TESTING				

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

	Due duet News -	Solar Camara DT	7			
-	Product Name Solar Camera PTZ					
	Brand Name	Tellur				
	Model Name	TLL331551	CIN CIN			
	Series Model(s)	N/A				
	Model Difference	N/A				
ATE		The EUT is Solar (Camera PTZ			
		Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz			
	Product Description	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-C AM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-C AM			
		Antenna gain:	5.15dBi			
		Antenna Designation:	External Antenna			
			ING			
	Rating	Input: DC5V 2A				
=	Battery	Rated Voltage:3.7\ Charge Limit Volta Capacity: 19200m.	ge:4.2V			
	Hardware Version	SHH-66-SQG-3-40	G-WIFI-V02			
	Software Version					
TE		TESTING				
			CTATESTING			
			TESI			



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1.2 TEST FACTORY

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, CTA TESTING

Shenzhen, China

FCC test Firm Registration Number: 517856

IC test Firm Registration Number: 27890

A2LA Certificate No.: 6534.01

IC CAB ID: CN0127 CTATES

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2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

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

Limits for Maximum Permissible Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)
Limits for Occupationa	I / controlled Exposures		
300 - 1500		12 mg	F/300
1500 – 100000			5.0
Limits for General pop	ulation / Uncontrolled Exp	posure	
300 - 1500			F/1500
1500 – 100000			1.0
E- Fraguency in MHz			

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



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2.3 TEST RESULT

Turn up

CTATES						
Mode	Detector	Max.Turn up Power				
2.4 WIFI	PK	18±1dBm				

			<u>,</u>						G	CTAT
Protocol	Fre. (GHz)	Separati on distance (cm)	Max Turn up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm²)	Limit (mW/ cm²)	Ratio	Result
2.4G WIFI	2462	20	19	5.15	24	251.19	0.05173	1	0.05173	Pass

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

* * * * * END OF THE REPORT * * * *

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