

MPE Test Report

Report No.: FVC-ESH-P20112378B-16

FCC ID: T2C-CTP18

Product: Collaboration Touch Panel

Model: CTP18

Received Date: Dec.30, 2020

Test Date: Jan.02 to Jan.18, 2021

Issued Date: Jan.20, 2021

Applicant: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

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Manufacturer: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

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Release Control Record

Issue No.	Description	Date Issued
FVC-ESH-P20112378B-16	Original release	Jan.20, 2021



1 Certificate of Conformity

Product: Collaboration Touch Panel

Brand: Yealink

Test Model: CTP18

Applicant: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

Test Date: Jan.02 to Jan.18, 2021

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, 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.

Frepared by :	Yuan ZHANG		Date:	Jan.20, 2021	
	Project Engineer				
Approved by :	CORPORTION CORPORTION	,	Date:	Jan.20, 2021	
	Daniel SUN EMC Lab Manager		2 1 32		

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2 General Description of EUT

BLE

Product	Collaboration Touch Panel		
Brand	Yealink		
Test Model	CTP18		
Power Rating	48Vdc, 0.2A or PoE 48Vdc, 0.27A		
Modulation Type	GFSK		
Modulation Technology	Bluetooth Low Energy 4.2		
Operating Frequency 2402MHz ~ 2480MHz			
Number of Channel	40		
Output Power	-1.84dBm		
Antenna Type PCB Antenna			
Antenna Connector			
Antenna Gain	3dBi		

Note: For more details, please refer to the User's manual of the EUT.

BT

Product	Collaboration Touch Panel		
Brand	Yealink		
Test Model	CTP18		
Power Rating 48Vdc, 0.2A or PoE 48Vdc, 0.27A			
Modulation Type GFSK, π/4-DQPSK, 8DPSK			
Modulation Technology	ology BT-EDR, FHSS		
Operating Frequency 2402MHz ~ 2480MHz			
Number of Channel	79		
Output Power	5.54dBm		
Antenna Type PCB antenna			
Antenna Connector			
Antenna Gain	3dBi		

Note: For more details, please refer to the User's manual of the EUT.

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WIFI 2.4G

Product	Collaboration Touch Panel		
Brand	Yealink		
Test Model	CTP18		
Power Rating	48Vdc, 0.2A or PoE 48Vdc, 0.27A		
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Modulation Technology DSSS, OFDM			
Operating Frequency	2412~2462MHz		
Number of Channel	11b/g/n(HT20):11;11n(HT40):7		
Output Power	19.05dBm		
Antenna Type	PCB Antenna		
Antenna Connector			
Antenna Gain	3dBi		

Note: For more details, please refer to the User's manual of the EUT.

WIFI 5G

Product	Collaboration Touch Panel
Brand	Yealink
Test Model	CTP18
Power Rating	48Vdc, 0.2A or PoE 48Vdc, 0.27A
Modulation Type	OFDM
Modulation Technology	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Operating Frequency	5150 ~ 5250MHz, 5250 ~ 5350MHz, 5470 ~ 5725MHz, 5745 ~ 5850MHz
Number of Channel	5150 ~ 5250MHz:7, 5250 ~ 5350MHz:7, 5470 ~ 5725MHz:18,5745 ~ 5850MHz:7
Output Power	15.02dBm
Antenna Type	PCB Antenna
Antenna Connector	
Antenna Gain	3dBi

Note: For more details, please refer to the User's manual of the EUT.



3 RF Exposure

3.1 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					
300-1,500	-	-	F/1500	30	
1,500-100,000	-	-	1.0	30	

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$

Where $S = power density in mW/cm^2$

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

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3.3 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)		
	BLE						
2402-2480	-1.84	3	20	0.0002600	1		
	ВТ						
2402-2480	5.54	3	20	0.0014222	1		
WIFI 2.4GHz							
2412-2462	19.05	3	20	0.3191173	1		
	WIFI 5GHz						
5150-5850	15.02	3	20	0.0126168	1		

Conclusion:

The calculation result of MPE is less than the limit.

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