



# EMF TEST REPORT

Product Name: 4K Zoom Video Microscope

Model Number: CE210T, Please refer to series models for page 5.

FCC ID: 2AFO3-CE210T

Issued For : GuangZhou Ostec Electronic Technology Co.,Limited  
2of No.8, West Lane,Jiangcheng Road,Bangjiang East  
Village,Dalong Street,Panyu District,Guangzhou  
City,Guangdong,P.R.China

Issued By : Shenzhen LGT Test Service Co., Ltd.  
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,  
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Report Number: LGT25L291HA02

Sample Received Date: Dec. 17, 2025

Date of Test: Dec. 17, 2025 ~ Feb. 11, 2026

Date of Issue: Feb. 11, 2026

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## TEST REPORT CERTIFICATION

**Applicant:** GuangZhou Ostec Electronic Technology Co.,Limited  
**Address:** 2of No.8, West Lane,Jiangcheng Road,Bangjiang East Village,Dalong Street,Panyu District,Guangzhou City,Guangdong,P.R.China  
**Manufacturer:** GuangZhou Ostec Electronic Technology Co.,Limited  
**Address:** 2of No.8, West Lane,Jiangcheng Road,Bangjiang East Village,Dalong Street,Panyu District,Guangzhou City,Guangdong,P.R.China  
**Product Name:** 4K Zoom Video Microscope  
**Trademark:** **KoPa**<sup>®</sup>  
**Model Number:** CE210T, Please refer to series models for page 5.  
**Sample Status:** Normal

| APPLICABLE STANDARDS                                                     |              |
|--------------------------------------------------------------------------|--------------|
| STANDARD                                                                 | TEST RESULTS |
| FCC 47 CFR §2.1091<br>KDB 447498 D01 General RF Exposure<br>Guidance v06 | PASS         |

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### **Revision History**

| Rev. | Issue Date    | Revisions     |
|------|---------------|---------------|
| 00   | Feb. 11, 2026 | Initial Issue |
|      |               |               |



## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                       |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:      | 4K Zoom Video Microscope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                       |
| Test Model Number: | CE210T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                       |
| Series Number:     | CE310T, CE510T, CE810T, CE1210T, DF48, DB48, CF48, YF48, CA4800, CA4800-NE, CA4800-L, CA4800-Z, CA4800-OT, CA4800-LT, CA4800-LiB, TE4800, TE4800-NE, TE4800-L, TE4800-Z, TE4800-OT, TE4800-NT, TE4800-LT, HE4800, HE4800-NE, HE4800-L, HE4800-NT, HE4800-LT, JX5000-TS, JX5000-LiT, JX5000-CKX, JX5000-C, JX5000, JX5000-NE, JX5000-L, JX5000-Z, HW5000-C, HW5000, HW5000-N, HW5000-L, HW5000-Z, HD5000W-C, HD5000W, HD5000W-N, HD5000W-TS, HD5000W-TSB, HD5000W-L, HD5000W-Z, MC5000, TC50-EDU, Prime Edu SN-48, N48 PLUS-S-EDU, Prime Edu SO-48, Prime Edu SZ-48, Prime Edu SCM-48, N48 PLUS EDU, INTERVISION N48 PLUS S, INTERVISION O48 PLUS S, PrimeCam 50Pro S, INTERVISION N48, INTERVISION O48 |                                                                                                                                                                       |
| Model Difference:  | The appearance is slightly different, but the function is exactly the same.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                       |
| Frequency Bands:   | 5G WLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IEEE 802.11a/n(HT20)/ ac(VHT20)/ ax(HE20): 5.180GHz-5.240GHz<br>IEEE 802.11n(HT40)/ ac(VHT40)/ax(HE40): 5.190GHz-5.230GHz<br>IEEE 802.11 ac(VHT80)/ax(HE80): 5.210GHz |
|                    | 6G WLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IEEE 802.11 ax(20MHz): 6.895GHz-7.115GHz<br>IEEE 802.11 ax(40MHz): 6.925GHz-7.085GHz<br>IEEE 802.11 ax(80MHz): 6.945GHz-7.025GHz                                      |
| Adapter:           | Input: AC 100-240V 50/60Hz 1.2A Max<br>Output: DC 12.0V 5.0A 60.0W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                       |
| Hardware Version:  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                       |
| Software Version:  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                       |

Note:

1. N/A" denotes is not applicable.

### 1.2 TEST LABORATORY

|                            |                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name:              | Shenzhen LGT Test Service Co., Ltd.                                                                                                                      |
| Address:                   | Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China |
| Accreditation Certificate: | FCC Registration No.: 746540                                                                                                                             |
|                            | CAB ID: CN0136                                                                                                                                           |



## 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<br>(MHz)                              | Electric Field<br>Strength (V/m) | Magnetic Field<br>Strength (A/m) | Power Density<br>(mW/cm <sup>2</sup> ) |
|-------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------------|
| Limits for Occupational / controlled Exposures        |                                  |                                  |                                        |
| 0.3-3.0                                               | 614                              | 1.63                             | *(100)                                 |
| 3.0-30                                                | 1842/f                           | 4.89/f                           | *(900/f <sup>2</sup> )                 |
| 30-300                                                | 61.4                             | 0.163                            | 1.0                                    |
| 300 - 1500                                            | --                               | --                               | F/300                                  |
| 1500 – 100000                                         | --                               | --                               | 5.0                                    |
| Limits for General population / Uncontrolled Exposure |                                  |                                  |                                        |
| 0.3-1.34                                              | 614                              | 1.63                             | *(100)                                 |
| 1.34-30                                               | 824/f                            | 2.19/f                           | *(180/f <sup>2</sup> )                 |
| 30-300                                                | 27.5                             | 0.073                            | 0.2                                    |
| 300 - 1500                                            | --                               | --                               | F/1500                                 |
| 1500 – 100000                                         | --                               | --                               | 1.0                                    |

F= Frequency in MHz

\* = Plane-wave equivalent power density.

Friss Formula

Friss Transmission Formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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.



## **2.3 EUT OPERATION CONDITION**

EUT was enabled to transmit and receive at lowest, middle and highest channels.

## **2.4 CLASSIFICATION**

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



## 2.5 TEST RESULT

### Turn up Result

| Mode                    | Turn up Power |
|-------------------------|---------------|
| 5G WIFI-802.11a         | 12.5±1dBm     |
| 5G WIFI-802.11n(HT20)   | 12.5±1dBm     |
| 5G WIFI-802.11n(HT40)   | 12±1dBm       |
| 5G WIFI-802.11ac(VHT20) | 12.5±1dBm     |
| 5G WIFI-802.11ac(VHT40) | 11±1dBm       |
| 5G WIFI-802.11ac(VHT80) | 10.5±1dBm     |
| 5G WIFI-802.11ax(HE20)  | 13±1dBm       |
| 5G WIFI-802.11ax(HE40)  | 11.5±1dBm     |
| 5G WIFI-802.11ax(HE80)  | 9.5±1dBm      |
| WIFI 6E-802.11ax(HE20)  | 5±1dBm        |
| WIFI 6E-802.11ax(HE40)  | 7±1dBm        |
| WIFI 6E-802.11ax(HE80)  | 11±1dBm       |

### The MPE result of worst mode:

| RF Function | Max<br>Turn up<br>Power<br>(dBm) | Max<br>Turn up<br>Power<br>(mW) | ANT<br>Gain<br>(dBi) | ANT Gain<br>(gain of<br>antenna in<br>linear<br>scale) | Power<br>Density<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Ratio | Result |
|-------------|----------------------------------|---------------------------------|----------------------|--------------------------------------------------------|-------------------------------------------|--------------------------------|-------|--------|
| 5G WIFI     | 14.00                            | 25.12                           | 1.2                  | 1.32                                                   | 0.007                                     | 1                              | 0.007 | Pass   |
| WIFI 6E     | 12.00                            | 15.85                           | 2.09                 | 1.62                                                   | 0.005                                     | 1                              | 0.005 | Pass   |

### Note:

1. The RF Exposure is less than the limit, complies with the exemption requirements.
2. The 5G WIFI and WIFI 6E can't simultaneous transmission at the same time.

※※※※※END OF THE REPORT※※※※※