



深圳市浩凯实业科技有限公司  
SHENZHEN CITYHOKAI INDUSTRIAL TECHNOLOGY LIMITED

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## 2 Mega Pixels USB Camera



**Product description:** USB 2.0 interface;

2-mega pixels camera;

Equipped with dual microphones, supporting recording and video recording;

Suitable for scenarios such as tablets, laptops, advertising machines, self-service terminals, Android devices, etc;



## 1.Specifications

| Specification parameters          |                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Chip size                         | CMOS 1/5 "                                                                                                               |
| Pixel Size                        | 1.75μm x 1.75μm                                                                                                          |
| SNR max                           | TBD dB                                                                                                                   |
| Max Dynamic range                 | TBD dB                                                                                                                   |
| Minimum illumination              | 0.1Lux at F12                                                                                                            |
| F/No.                             | 2.2                                                                                                                      |
| EFL                               | 2.234mm                                                                                                                  |
| FOV (Field of view)               | 76 °                                                                                                                     |
| IR filter                         | 670±10nm                                                                                                                 |
| Lens Construction                 | 3P+IR                                                                                                                    |
| Maximum resolution and frame rate | 1600*1200 (30fps)                                                                                                        |
| Other optional resolution ratio   | 640*480 (30fps)、800*600(30fps)<br>960*540 (30fps)、1024*768 (30fps)<br>1280*720 (30fps)、1280*960(30fps)                   |
| Support format                    | YUV / MJPG                                                                                                               |
| USB power supply voltage          | 5V±5%                                                                                                                    |
| Connect the interface             | 1*USB-5pin-1.0mm                                                                                                         |
| Interface speed                   | 480mb/s                                                                                                                  |
| Operating system request          | Windows XP/ VISTA/ Win7/Win8/<br>Win10/Linux2.6.24 and above 、Ubuntu 、<br>Mac OS 10.6 and above 、Android5.1 and<br>above |
| Power Consumption                 | Regular work : 1W                                                                                                        |
| storage temperature               | -10 °C to + 65 °C                                                                                                        |
| working temperature               | -10 °C to + 60 °C                                                                                                        |
| Camera Size                       | (L) 64mm x (W) 8.5mm x (H) 4.65mm                                                                                        |



|                                                                                                          |                                                                                               |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  <b>深圳市浩凯实业科技有限公司</b> |                                                                                               |
| 未注公差说明                                                                                                   | 产品型号：HK2M-H301                                                                                |
| 尺寸单位：MM                                                                                                  | 产品料号：                                                                                         |
| 线性尺寸公差：±0.2                                                                                              | 产品类型：                                                                                         |
| 圆孔尺寸公差：±0.2                                                                                              | 设计日期：                                                                                         |
| 钻孔尺寸公差：±0.1                                                                                              | 版本号：                                                                                          |
|                                                                                                          | 3rd ANGLE  |
|                                                                                                          | 尺寸比例：1:1                                                                                      |
|                                                                                                          | 设计：                                                                                           |
|                                                                                                          | 制图：                                                                                           |
|                                                                                                          | 审核：                                                                                           |



### 3. Reliability testing

| Reliability testing |                                              |                                                                                                            |                                          |
|---------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------|
| NO.                 | Item                                         | Conditions and requirements                                                                                | Test equipment                           |
| 1                   | Low temperature storage                      | -10℃, 72hours , Temperature rise and fall for 30 minutes each                                              | Low temperature box                      |
| 2                   | Low temperature operation                    | -10℃, 16hours , Temperature rise and fall for 30 minutes each                                              | Low temperature box                      |
| 3                   | High temperature storage                     | 65℃, 72hours , Temperature rise and fall for 30 minutes each                                               | High temperature box                     |
| 4                   | High temperature operation                   | 60℃, 16hours , Temperature rise and fall for 30 minutes each                                               | High temperature box                     |
| 5                   | High temperature and high humidity storage   | 60℃, 85%RH , 72hours , Temperature rise and fall for 30 minutes each                                       | High temperature and humidity chamber    |
| 6                   | High temperature and high humidity operation | 60℃, 85%RH , 16hours , Temperature rise and fall for 30 minutes each                                       | High temperature and humidity chamber    |
| 7                   | Cold and hot shock test                      | -10℃) →50℃ (30min each) High and low temperature conversion time is less than 5 minutes<br>Total: 10cycles | Low temperature box/high temperature box |
| 8                   | Free fall test (after packaging)             | Height 100cm , 10 times                                                                                    | Oak flooring                             |
| 9                   | Vibration test (after packaging)             | 30Hz, amplitude 2mm, XYZ 3 directions, vibration for 30 minutes                                            | Vibration test bench                     |
| 10                  | Static electricity test (power-off)          | 150Pf、330 欧±8KV , Air discharge, Measure ten times                                                         | Electrostatic tester                     |



## 4. Packaging

### Packaging method

