

## The Camera Specification With 1.0M Pixel 30FPS HD Color CMOS Sensor USB2.0 output

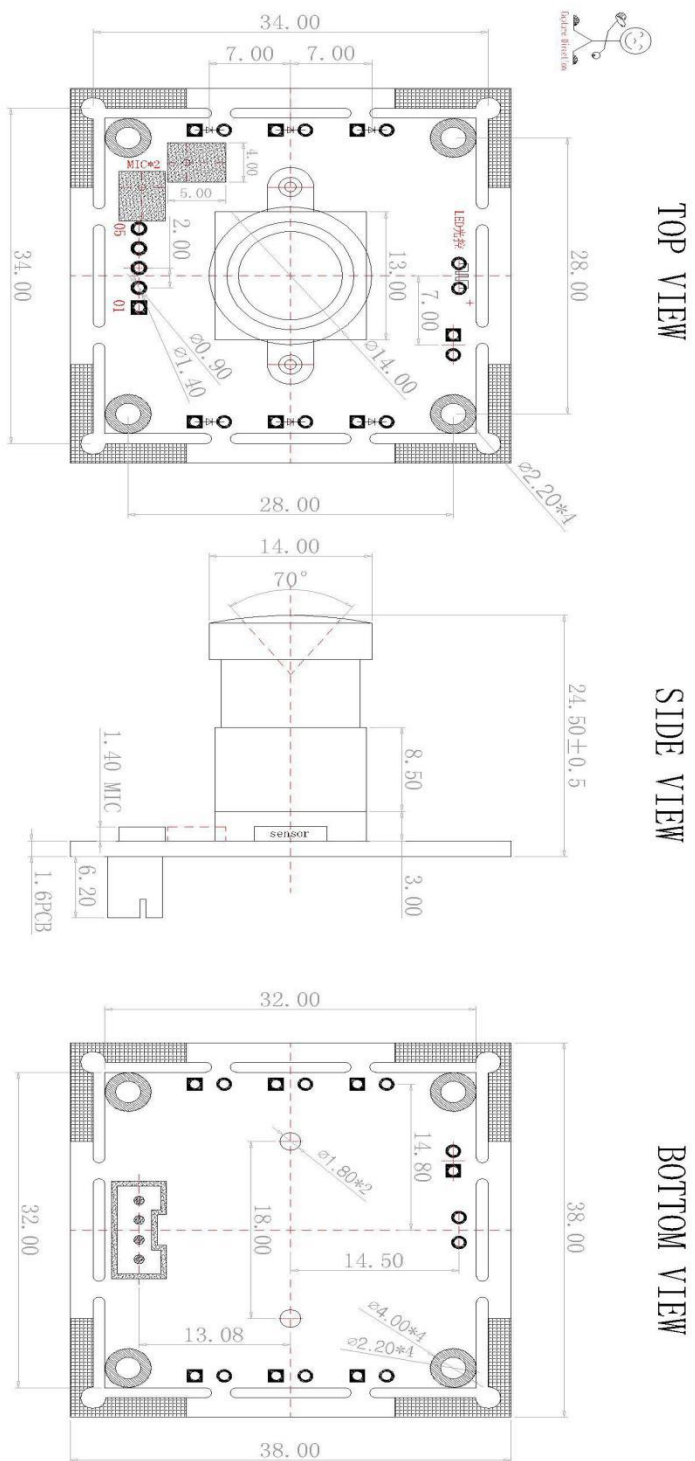


### 1. Key Specifications (主要规格)

|                            |                                                         |
|----------------------------|---------------------------------------------------------|
| Module No.                 | HIS-1807                                                |
| Product Size               | 38*38mm                                                 |
| Temperature (Operation)    | -30°C to 70°C                                           |
| Temperature (Stable Image) | 0°C to 50°C                                             |
| Assembly technique         | SMT (ROSH)                                              |
| Lens                       | 2.8mm                                                   |
| Object distance            | 30CM-infinity                                           |
| Resolution                 | 1.0Megapixels                                           |
| View Angle                 | 72°                                                     |
| interface                  | USB 2.0                                                 |
| Power supply               | USB bus power                                           |
| supply voltage             | DC 5V±5%                                                |
| Maximum Power consumption  | 450 mW                                                  |
| OSI                        | Supported with UVC                                      |
| Operating system request   | WinXP/Win7/Win8/Win10/MAC OSX/Linux/Android with uvc    |
| Functions                  | Support OTG,UVC Protocol,QR Code Scan,Face Recognition; |
| USB Interface              | USB interface free drive, plug and play;                |
| Sensor                     | OV9732 (1/4")                                           |
| Sensor Package             | CSP,Bare Die                                            |
| Maximum resolution         | 1280*720/30FPS                                          |

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sensitivity</b>                    | 3300 / (lux-sec)                                                                                                                                                               |
| <b>Pixel Size</b>                     | 3μm x 3μm                                                                                                                                                                      |
| <b>Maximum Image Transfer Rate</b>    | MJPEG 640x360 30FPS / YUY2 640x360 30FPS<br>MJPEG 640x480 30FPS / YUY2 640x480 30FPS<br>MJPEG 800x600 30FPS / YUY2 800x600 30FPS<br>MJPEG 1280x720 30FPS / YUY2 1280x720 30FPS |
| <b>S/N Ratio</b>                      | 39db                                                                                                                                                                           |
| <b>Max Dynamic Range</b>              | 69db                                                                                                                                                                           |
| <b>Shutter type</b>                   | Electronic rolling shutter                                                                                                                                                     |
| <b>AGC/AEC/Whiter balance</b>         | Auto                                                                                                                                                                           |
| <b>Output Formats</b>                 | YUY2/MJPEG                                                                                                                                                                     |
| <b>Microphone</b>                     | Support                                                                                                                                                                        |
| <b>Lens Construction</b>              | 4G                                                                                                                                                                             |
| <b>F/No</b>                           | 2.3                                                                                                                                                                            |
| <b>EFL</b>                            | 4.04 mm                                                                                                                                                                        |
| <b>FOV</b>                            | 70°                                                                                                                                                                            |
| <b>TV Distortion</b>                  | <-9.5%                                                                                                                                                                         |
| <b>Relative Illumination (Sensor)</b> | 70%                                                                                                                                                                            |
| <b>IR Filter</b>                      | 650±10nm                                                                                                                                                                       |
| <b>Module Package</b>                 | Anti-electrostatic tray                                                                                                                                                        |
| <b>Certifications</b>                 | FCC/CE/ROSH                                                                                                                                                                    |

## 2. Module Mechanical Dimension(模组结构图)



## Lens Specification

| Optical Specification |        |
|-----------------------|--------|
| Focal Length          | 4.04mm |
| FOV (D)               | 70°    |
| TV Distortion         | <-9.5% |
| F. Number             | 2.3    |

| PIN | SIGNAL |
|-----|--------|
| 1   | VCC 5V |
| 2   | D-     |
| 3   | D+     |
| 4   | GND    |
| 5   | GND    |

## NOTE

- 1 The unmarked tolerance of linear dimension is  $\pm 0.1\text{mm}$
- 2 Sensor : 0W9732
- 3 Image direction register use default settings.

|     |        |      |       |                     |          |  |  |        |    |              |           |       |                      |     |       |      |    |
|-----|--------|------|-------|---------------------|----------|--|--|--------|----|--------------|-----------|-------|----------------------|-----|-------|------|----|
| 4   |        |      |       | TOLERANCE           |          |  |  |        |    |              |           |       | SCALE                |     | PROJ. | ⊕ ⊖  |    |
| 3   |        |      | ITEM  | ALLOWANCE TOLERANCE |          |  |  |        |    |              |           | REV   | 1                    | QTY | 1     |      |    |
| 2   |        |      | ANGLE | ±5°                 |          |  |  |        |    |              |           | SHEET | 1                    | OF  | 1     | SIZE | A4 |
| 1   | SKETCH |      |       |                     | DRAWING  |  |  | DATE   |    |              | Part Name |       | HBVCAM-1807-720P V11 |     |       |      |    |
|     |        |      |       |                     | CHECKED  |  |  | UNIT   | MM | Customer P/N |           |       |                      |     |       |      |    |
| NO. | CHANGE | NAME | DATE  |                     | APPROVED |  |  | WEIGHT |    |              | Material  |       |                      |     |       |      |    |