



## Zoom Stereo Digital Binocular Microscope —SZM45VH

### Features:

1. Digital binocular viewing head is 45° clined and 360° rotatable
2. Zoom lenses 7.0X-45X, crystal clear at any point
3. High definition images
4. Long working distance allow enough lighting options
5. Equipped with measuring system inspecting PCB/ VFD/ Electronic components, etc.
6. Support data processing and statistics
7. Printing or outputing the image at the magnification which you want.
8. Containing chart article reporting management system
9. Products SGS & CE approved

### Specifications

1. Objective Zoom: 0.7X-4.5X
2. Zoom Ratio: 1:6.4
3. Eyepiece: WF10X/20mm (WF15X/15mm; WF20X/10mm; 25X/8mm for option)
4. Auxiliary Objective: 0.5X ; 2.0X
5. Interpupillary Distance: 54-76mm
6. Diopter Adjustment: ±5
7. There're 3.0Mpixel, 1.3Mpixel and 5.0Mpixel for your option.

| Sensor                  | Micron                             | Micron                            | Micron                           |
|-------------------------|------------------------------------|-----------------------------------|----------------------------------|
| Sensor type             | MT9T001                            | MT9M111                           | MT9P001                          |
| Sensor size             | 1/2 inch                           | 1/3 inch                          | 1/2.5inch                        |
| Pixels                  | 3.2 μm * 3.2 μm                    | 3.6μm * 3.6μm                     | 2.2μm * 2.2μm                    |
| Resolution              | 2048H * 1536V                      | 1280H * 1024V                     | 2592H * 1944V                    |
| Filter                  | RGB Bayer                          | RGB Bayer                         | IR Filter                        |
| Lens interface          | C/CS mount                         | C/CS mount                        | C/CS mount                       |
| Maximum fps             | 11fps (2048*1536)/30fps (640*480)  | 15fps (1280*1024)/30fps (640*480) | 7fps (2592*1944)/30fps (640*480) |
| RGB                     | 8 bit                              | 8 bit                             | 8 bit                            |
| Exposure control        | automatic/ manual                  | automatic/ manual                 | automatic/ manual                |
| Exposure time           | 1ms-0.3S                           | 1ms-0.3S                          | 1ms-0.3S                         |
| White balance           | automatic/ manual                  | automatic/ manual                 | automatic/ manual                |
| Scan mode               | progress                           | progress                          | progress                         |
| Shutter                 | electronic rolling shutter         | electronic rolling shutter        | electronic rolling shutter       |
| Sensitivity             | 1.0V/Lux-S(550nm)                  | 1.0V/Lux-S(550nm)                 | 1.4V/Lux S(550nm)                |
| S/N Ratio               | 43dB                               | 44dB                              | 38.1dB                           |
| Dynamic range           | >61dB                              | >71dB                             | 70.1dB                           |
| Controlling             | image size, bright, gain, exposure | image size,bright,gain,exposure   | image size,bright,gain,exposure  |
| Data interface          | USB2.0/480Mb/s                     | USB2.0/480Mb/s                    | USB2.0/480Mb/s                   |
| USB cable               | 1.8 meter                          | 1.8 meter                         | 1.8 meter                        |
| Supply electricity      | USB2.0                             | USB2.0                            | USB2.0                           |
| Operational temperature | 0-60°C                             | 0-60°C                            | 0-60°C                           |
| Operational humidity    | 45%-85%                            | 45%-85%                           | 45%-85%                          |
| Storage temperature     | -20-70°C                           | -20-70°C                          | -20-70°C                         |
| Mac compatible          | Yes                                | Yes                               | Yes                              |