

# Industrial Camera Manufacturer

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# MindVision

TECHNOLOGY

## MV-U3B130GC

*P*roducts  
manual



### CHARACTERISTIC

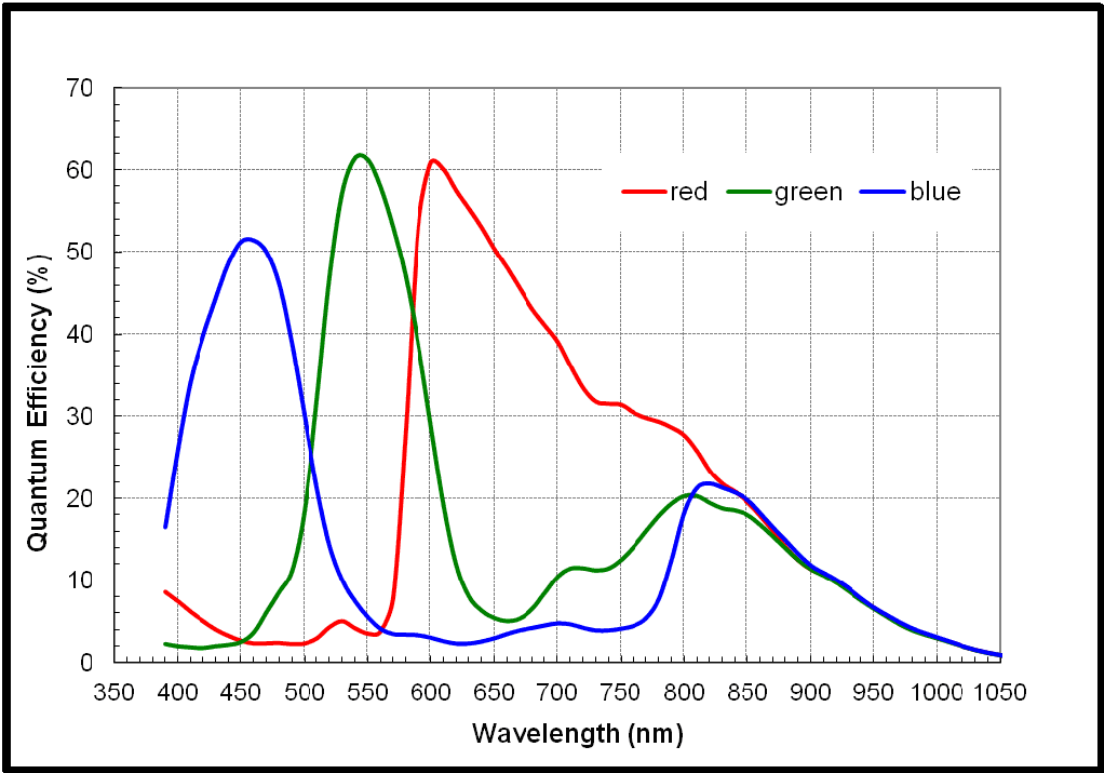
- Support external trigger sync taking pictures
- The camera comes with programmable IO
- Support PC Linux systems and ARM Linux systems can be integrated into embedded devices
- A computer to connect multiple cameras to stable work, long time not to drop lines, not to lose frames
- Support for 16bit grayscale and 48bit color lossless format output
- Compatibility VISION protocol, seamless compatible with Halcon, VisionPro, Labview and other visual software

**SHENZHEN MINDVISION TECHNOLOGY CO., LTD.**

## MV-U3B130GC

| Model<br>Specifications  | MV-U3B130GC                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor Type              | 1/3 Inch CMOS                                                                                                                                                                                                                          |
| Shutter                  | Global Shutter                                                                                                                                                                                                                         |
| Mono/Color               | Color                                                                                                                                                                                                                                  |
| Pixel Size               | 3.75X3.75μm                                                                                                                                                                                                                            |
| Resolution               | 1.22MP(1280×960 )                                                                                                                                                                                                                      |
| Frame Rate               | 1280X960@ 60FPS<br>640X480@ 117FPS<br>640X480 BIN2@60FPS                                                                                                                                                                               |
| Pixel Bit Depth          | 12bit                                                                                                                                                                                                                                  |
| Sensitivity              | 5.3/6.1V/lux-s 550nm                                                                                                                                                                                                                   |
| I / O port               | 6-pin Hirose connector, 1-channel optical trigger input (multiplexed as input GPIO), one-way optical flash output (multiplexed as output GPIO); Can be added with 2 input 3 output (double 6pin Hirose connector )                     |
| Synchronization          | external trigger/software/free-run                                                                                                                                                                                                     |
| Maximum Gain             | 4.0                                                                                                                                                                                                                                    |
| Exposure time(ms)        | 0.022~22                                                                                                                                                                                                                               |
| Filter                   | Standard 650nm Infrared Cut-off Filter                                                                                                                                                                                                 |
| Frame Buffer             | 32M Bytes                                                                                                                                                                                                                              |
| Camera Custom Data       | 2K Bytes                                                                                                                                                                                                                               |
| Video Output Format      | Bayer8、Bayer12、Mono8、Mono12、Mono16、RGB24、RGB32、RGB48                                                                                                                                                                                   |
| Video software interface | SUB support USB3 Vision agreement                                                                                                                                                                                                      |
| Lens Mount               | CS-mount, to provide CS-mount to C-mount adapter ring                                                                                                                                                                                  |
| Data Interface           | USB 3.0 Micro-B interface                                                                                                                                                                                                              |
| Power Requirements       | USB bus-powered                                                                                                                                                                                                                        |
| Power Consumption        | <2.5W                                                                                                                                                                                                                                  |
| Dimensions               | 29(mm)X29(mm)X29(mm)                                                                                                                                                                                                                   |
| weight                   | < 75g                                                                                                                                                                                                                                  |
| Working temperature      | 0~50℃                                                                                                                                                                                                                                  |
| Working humidity         | 20~80% ( No Condensation )                                                                                                                                                                                                             |
| Storage temperature      | -30~60℃                                                                                                                                                                                                                                |
| Storage humidity         | 20~95% ( No Condensation )                                                                                                                                                                                                             |
| Support system           | WINXP, WIN7 / 8/10 32 & 64-bit systems, Linux and ARM Linux drivers and Android platform drivers (customizable)                                                                                                                        |
| Drivers                  | DirectShow components Halcon special components Labview dedicated drive OCX components TWAIN components                                                                                                                                |
| Programming language     | C/C++/C#/VB6/VB.NET/Delphi/BCB/Python                                                                                                                                                                                                  |
| Programmable control     | Image size (ROI), camera, exposure time, GAMMA, contrast, brightness, custom LUT, mirror flip, RGB color gain, saturation, sharpness, color to mono, color temperature correction, anti-color, Color, trigger mode, frame rate control |

SPECTRUM



MECHANICAL SPECIFICATION

Unit : mm

