

Industrial camera manufacturer

WWW.MINDVISION.COM.CN



MindVision
TECHNOLOGY

迈德威视



Industrial Cameras

深圳市迈德威视科技有限公司

SHENZHEN MINDVISION TECHNOLOGY CO., LTD.



MindVision
TECHNOLOGY
迈德威视

COMPANY PROFILE

MindVision Technology Co., Ltd. is a professional manufacturer of industrial camera, over the years, MindVision has focused on R & D, production and sales of industrial camera.

MindVision provides various interfaces (USB2.0, USB and GigE, VGA, WiFi) industrial camera, rich models, good price, good stability. It has been widely used in the fields of robot vision, detection, detection of product defects, 3D imaging, bar code recognition, biomedicine, teach science, microscopy imaging, intelligent traffic, iris recognition, new energy exploration and scientific research etc..



Please pay attention to us,
get the latest product advisory.



MindVision
TECHNOLOGY

迈德威视

PRODUCT CATALOG

GigE series	Page1
USB2.0 series	Page4
USB3.0 series	Page7
Camera spectral curve	Page10
OEM/ODM	Page18



MindVision
TECHNOLOGY
迈德威视

GigE Series

CHARACTERISTIC



- 100 meters long distance stable transmission, support POE function
- GigE VISION standard, free drive directly supports Halcon and VisionPro software
- From 0.3 to 16 mega pixels, CCD and CMOS.
- The built-in image processing hardware acceleration, reduce the host CPU occupancy rate
- support multi camera work at the same time, the network can be arbitrary
- The special packet retransmission technology, to ensure reliable data transmission
- Excellent SDK ,like USB, cameras, plug and play
- Support external trigger and flash sync, up to seven GPIOs

ACCESSORIES

C/CS switching ring

GigE camera dedicated data line

External trigger connecting line, power line

DRIVERS

Windows XP windows7 windows8 32/64bit Drivers

Linux Drivers

ARM Linux Drivers

SOFTWARE DEVELOPMENT KIT

Windows SDK development kit

C/C++/VB6/VB.NET/C#/BCB/Delphi demos

Linux SDK development kit

ARM Linux SDK & C/C++ demos

EXPANSION KIT

DirectShow Exhibition control

Twain Exhibition control

Halcon Exhibition control

Labview Exhibition control

OCX Exhibition control

USER SOFTWARE

Mindvision Demo

Mindvision Measure Software

GigE Series

MindVision
TECHNOLOGY



Camera model list

Model	Active pixels	Sensor	Shutter Type	Max resolution	Pixel Size	ADC	FPS	Sensor Size	Min Exp Time	Pattern
MV-GE31GC/M	0.36M	CMOS	Global	752X480	6.0µm	10bit	100	1/3"	0.065ms	Color/Mono
MV-GE32GC/M	0.30M	CMOS	Global	640X480	4.8µm	10bit	325	1/4"	0.005ms	Color/Mono
MV-GE130M	1.30M	CMOS	Rolling	1280X1024	5.2µm	10bit	30	1/2"	0.0315ms	Mono
MV-GE130GC/M	1.3M	CMOS	Global	1280X960	3.75µm	12bit	60	1/3"	0.016ms	Color/Mono
MV-GE132GC/M	1.3M	CMOS	Global	1280X1024	4.8µm	10bit	92	1/2"	0.005ms	Color/Mono
MV-GE200GC/M	2.0M	CMOS	Global	1600X1200	4.5µm	10bit	60	1/1.8"	0.015ms	Color/Mono
MV-GE231GC/M	2.3M	CMOS	Global	1920X1200	5.86µm	12bit	40	1/1.2"	0.02ms	Color/Mono
MV-GE500C/M	5.0M	CMOS	Rolling	2592X1944	2.2µm	12bit	15	1/2.5"	0.033ms	Color/Mono
MV-GE501GC/M	5.0M	CMOS	Global	2448X2048	3.45µm	12bit	24	2/3"	0.013ms	Color/Mono
MV-GE502GC/M	5.3M	CMOS	Global	2592X2048	4.8µm	10bit	22	1"	0.005ms	Color/Mono
MV-GE1400C	14.0M	CMOS	Rolling	4384X3288	1.4µm	12bit	8	1/2.3"	0.02ms	Color
MV-GE1600C	16.0M	CMOS	Rolling	4608X3456	1.34µm	12bit	7	1/2.3"	0.093ms	Color
MV-GED31C/M	0.3M	CCD	Global	640X480	5.6µm	12bit	160	1/4"	0.005ms	Color/Mono
MV-GED32C/M	0.3M	CCD	Global	640X480	7.4µm	12bit	160	1/3"	0.005ms	Color/Mono
MV-GED130C/M	1.3M	CCD	Global	1280X960	3.75µm	12bit	43	1/3"	0.005ms	Color/Mono
MV-GED141M	1.4M	CCD	Global	1360X1024	6.45µm	12bit	30	2/3"	0.005ms	Color/Mono
MV-GED200C/M	2.0M	CCD	Global	1600X1200	4.4µm	12bit	27	1/1.8"	0.005ms	Color/Mono
MV-GED500C/M	5.0M	CCD	Global	2448X2048	3.45µm	12bit	9	2/3"	0.005ms	Color/Mono

Note: POE and GPIO are optional

FUNCTION FEATURE

- Support multi camera work at the same time, compatible with the USB SDK camera, easily replace.
- The camera parameters in the form of file archive, convenient production release, simple development, cross platform compatibility.
- The camera name can be modified, easily for distinguish between multiple cameras.
- Support 8bit, 24bit, 32bit - image data output format.
- Support custom function resolution. View clipping (ROI), BIN, SKIP pumping point, zoom function can be freely combined settings.
- Has internal 16K bytes of user data storage.

MECHANICAL DIMENSIONS

Size : 29mmX29mmX40mm

Material: aluminum alloy

ENVIRONMENTAL SPECIFICATION

Operating temperature: 0-50 degrees

Celsius temperature: -30-60

ELECTRICAL SPECIFICATIONS

Power supply interface: 12V/POE48~57V DC

Data interface: RJ45 (gigabit network port)

OPTICAL SPECIFICATIONS

Lens interface: C or CS, can be transferred to the F port or a single board computer lens

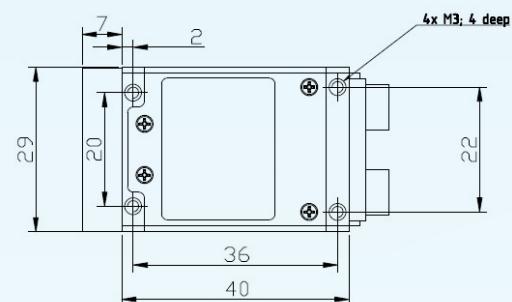
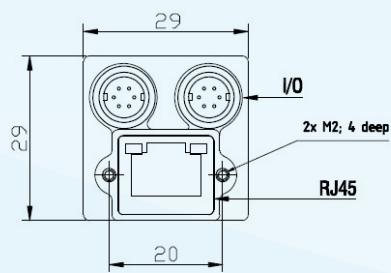
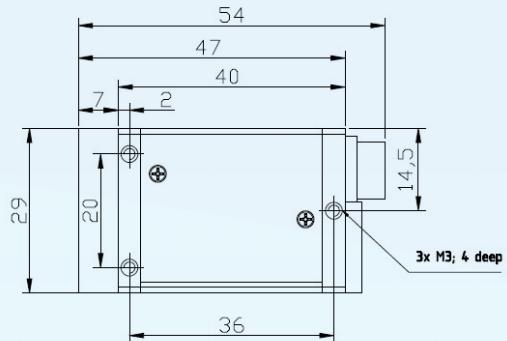
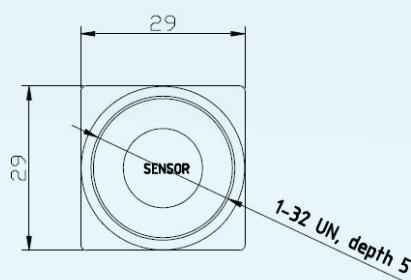


MindVision
TECHNOLOGY

迈德威视

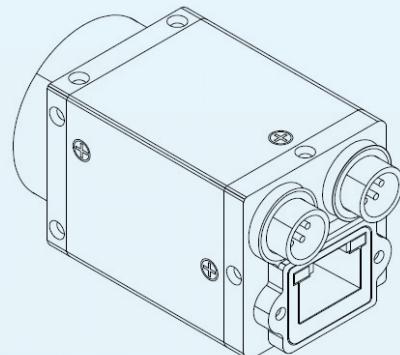
GigE Series

MECHANICAL SPECIFICATION



(1:1)

Dimensions: mm



USB2.0 Series

MindVision
TECHNOLOGY



CHARACTERISTIC

- External power supply is not needed, plug and play.
- From 0.3 to 10.0 Mega pixels,CCD and CMOS.
- High strength Aluminum Alloy shell, mounting holes all around.
- Support Windows, Linux and ARM - Linux system.
- Support external trigger, synchronous flash.
- The hardware frame buffer, support more than 32 cameras at the same time.
- The camera can save custom datas.



ACCESSORIES

C/CS switching ring

GigE camera dedicated data line

External trigger connecting line, power line

DRIVERS

Windows XP windows7 windows8 32/64bit Drivers

Linux Drivers

ARM Linux Drivers

SOFTWARE DEVELOPMENT KIT

Windows SDK development kit

C/C++/VB6/VB.NET/C#/BCB/Delphi demos

Linux SDK development kit

ARM Linux SDK & C/C++ demos

EXPANSION KIT

DirectShow Exhibition control

Twain Exhibition control

Halcon Exhibition control

Labview Exhibition control

OCX Exhibition control

USER SOFTWARE

Mindvision Demo

Mindvision Measure Software



Camera model list

Model	Active pixels	Sensor	Shutter Type	Max resolution	Pixel Size	ADC	FPS	Sensor Size	Min Exp Time	Pattern
MV-UB31GC/M	0.36M	CMOS	Global	640X480	6.0µm	10bit	125	1/3"	0.0184ms	Color/Mono
MV-UB130GC/M	1.3M	CMOS	Global	1280X960	3.75µm	12bit	36	1/3"	0.0250ms	Color/Mono
MV-UB130M	1.3M	CMOS	Rolling	1280X1024	5.2µm	10bit	30	1/2"	0.0315ms	Mono
MV-UB130RC	1.3M	CMOS	Rolling	1280X960	3.75µm	12bit	34	1/3"	0.0250ms	Color
MV-UB300	3.0M	CMOS	Rolling	2048X1536	3.2µm	10bit	13	1/2"	0.0556ms	Color
MV-UB500C/M	5.0M	CMOS	Rolling	2592X1944	2.2µm	12bit	9	1/2.5"	0.0582ms	Color/Mono
MV-UB1000	10.0M	CMOS	Rolling	3664X2748	1.67µm	10bit	4	1/2.3"	0.064ms	Color
MV-UBD31C/M	0.3M	CCD	Global	640X480	5.6µm	12bit	140	1/4"	0.0167ms	Color/Mono
MV-UBD130C/M	1.3M	CCD	Global	1280X960	3.75µm	12bit	35	1/3"	0.037ms	Color/Mono
MV-U130M	1.3M	CMOS	Rolling	1208X1024	5.2µm	10bit	15	1/2"	0.0315ms	Mono
MV-U500C/M	5.0M	CMOS	Rolling	2592X1944	2.2µm	12bit	7	1/2.5"	0.0582ms	Color/Mono
MV-U300	3.0M	CMOS	Rolling	2048X1536	3.2µm	10bit	6	1/2"	0.0556ms	Color

FUNCTION FEATURE

- High performance, make full use of the bandwidth of USB2.0, 140 fps for 0.3M camera, 13 fps for 3.0M camera, 9 fps for 5.0M camera.
- It supports a variety of programming language. Provide VC/C++, VB6, BCB, VB.net, Delphi, C# development DEMO.
- Support DirectShow, Twain and three party video interface, Halcon, OpenCV, seamless compatibility LabView machine vision software.
- Multiple cameras are used at the same time, easy to distinguish.
- Support 8bit, 24bit, 32bit image data output format, support JPG, PNG, BMP, raw format pictures and lossless avi video compression.
- Support XP, WIN7, WIN8 - 32 and 64 bit windows operating system, Linux support system (special driving mode, non UVC free drive).
- Support custom function resolution. View cut (ROI), BIN (average or sum) SKIP. Small resolution can be obtained higher frame rate.
- The camera has storage space for custom datas.

MECHANICAL DIMENSIONS

Size : 38mmX38mmX46mm

Material: aluminum alloy

ENVIRONMENTAL SPECIFICATION

Working temperature: 0-50 degrees

Celsius temperature: -60 C -30 C

Working humidity: 20-80% (no condensation)

ELECTRICAL SPECIFICATIONS

Power supply interface: 5V DC (by USB port)

Data interface: 480Mb/s B TYPE USB2.0

OPTICAL SPECIFICATIONS

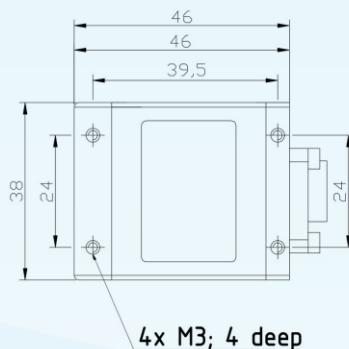
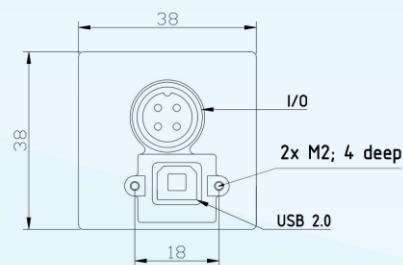
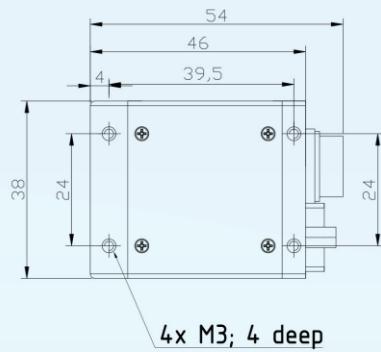
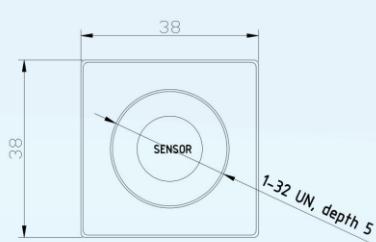
Lens interface: C or CS

USB2.0 Series

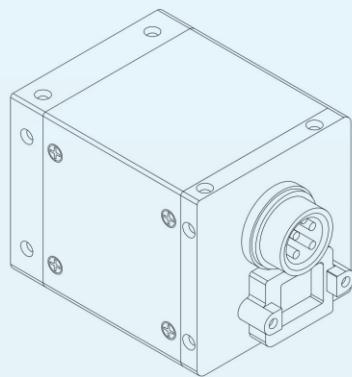
MindVision
TECHNOLOGY



MECHANICAL SPECIFICATION



(1:1)



Dimensions: mm

USB3.0 Series



CHARACTERISTIC

- Support external trigger flash sync photos
- With programmable GPIOs.
- Support PC Linux system and ARM Linux system can be integrated into embedded devices.
- Multiple cameras can work simultaneous and stably, no frame loss.
- High frame rate, high resolution, high bandwidth transmission 5Gb.
- From 0.3 to 16.0 Mega pixels, Global and Rolling CMOS.
- Compatible with USB3 VISION protocol, compatible with Halcon, VisionPro, Labview and other vision software.



ACCESSORIES

C/CS switching ring

GigE camera dedicated data line

External trigger connecting line, power line

DRIVERS

Windows XP windows7 windows8 32/64bit Drivers

Linux Drivers

ARM Linux Drivers

SOFTWARE DEVELOPMENT KIT

Windows SDK development kit

C/C++/VB6/VB.NET/C#/BCB/Delphi demos

Linux SDK development kit

ARM Linux SDK & C/C++ demos

EXPANSION KIT

DirectShow Exhibition control

Twain Exhibition control

Halcon Exhibition control

Labview Exhibition control

OCX Exhibition control

USER SOFTWARE

Mindvision Demo

Mindvision Measure Software



Camera mode list

Model	Active pixels	Sensor	Shutter Type	Max resolution	Pixel Size	ADC	FPS	Sensor Size	Min Exp Time	Pattern
MV-SUB32GC/M	0.3M	CMOS	Global	640X480	4.8μm	10bit	750	1/4"	0.005ms	Color/Mono
MV-SUB132GC/M	1.3M	CMOS	Global	1280X1024	4.8μm	10bit	203	1/2"	0.005ms	Color/Mono
MV-SUB230GC/M	2.3M	CMOS	Global	1920X1200	5.86μm	12bit	80	1/1.2"	0.005ms	Color/Mono
MV-SUB231GC/M	2.3M	CMOS	Global	1920X1200	5.86μm	12bit	40	1/1.2"	0.02ms	Color/Mono
MV-SUB500GC/M	5.0M	CMOS	Global	2448X2048	3.45μm	12bit	75	2/3"	0.013ms	Color/Mono
MV-SUB501GC/M	5.0M	CMOS	Global	2448X2048	3.45μm	12bit	40	2/3"	0.013ms	Color/Mono
MV-SUB502GC/M	5.3M	CMOS	Global	2592X2048	4.8μm	10bit	60	1"	0.005ms	Color/Mono
MV-SUB1400C	14.0M	CMOS	Rolling	4384X3288	1.4μm	12bit	15	1/2.3"	0.02ms	Color
MV-SUB1600C	16.0M	CMOS	Rolling	4608X3456	1.34μm	12bit	12	1/2.3"	0.093ms	Color
MV-U3B31GC/M	0.3M	CMOS	Global	640X480	6.0μm	10bit	155	1/3"	0.0184ms	Color/Mono
MV-U3B130M	1.3M	CMOS	Rolling	1280X1024	5.2μm	10bit	30	1/2"	0.0315ms	Mono
MV-U3B130GC/M	1.3M	CMOS	Global	1280X960	3.75μm	12bit	60	1/3"	0.0250ms	Color/Mono
MV-U3B300C	3.0M	CMOS	Rolling	2048X1944	3.2μm	10bit	13	1/2"	0.0556ms	Color
MV-U3B500C/M	5.0M	CMOS	Rolling	2592X1944	2.2μm	12bit	14	1/2.5"	0.0582ms	Color/Mono
MV-U3B1000C	10.0M	CMOS	Rolling	3664X2748	1.67μm	10bit	6	1/2.3"	0.064ms	Color

FUNCTION FEATURE

- Support multi camera work at the same time, the work is stable and reliable, fully compatible with the GIGE camera SDK, you can easily replace.
- Camera parameters are stored in the form of documents, to facilitate production release, the development of simple, cross platform compatible.
- Support 8bit, 24bit, 32bit, image data format output.
- Support small resolution in high frame rate for preview, and high resolution for snapshot.
- Support resolution custom function. View clipping (ROI), BIN, SKIP pumping point, scaling function can be freely combined set.
- With 16K bytes of user data storage space.

MECHANICAL DIMENSIONS

Size : SUB Series 29mmX29mmX64mm

Size : U3B Series 29mmX29mmX29mm

Material: aluminum alloy

ENVIRONMENTAL SPECIFICATION

Operating temperature: 0-50 degrees

Celsius temperature: -30-60

Working humidity: 10%-80%

ELECTRICAL SPECIFICATIONS

Power supply interface: USB interface

Data interface: 5Gb/s USB3.0

OPTICAL SPECIFICATIONS

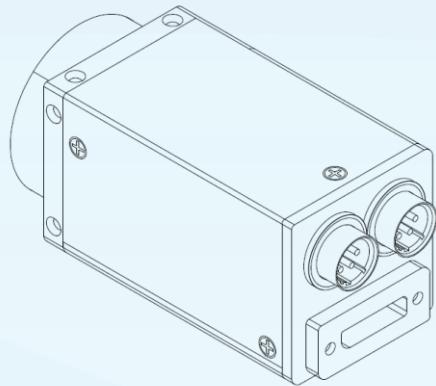
Lens interface: C or CS

USB3.0 Series

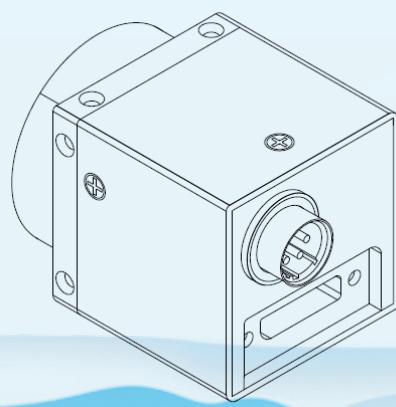
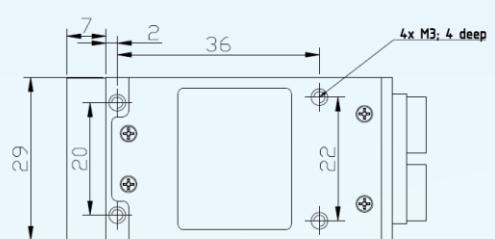
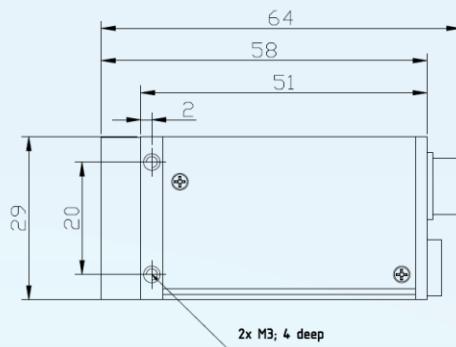
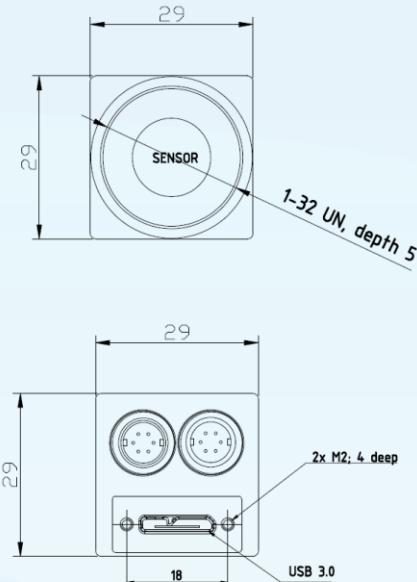
MindVision
TECHNOLOGY



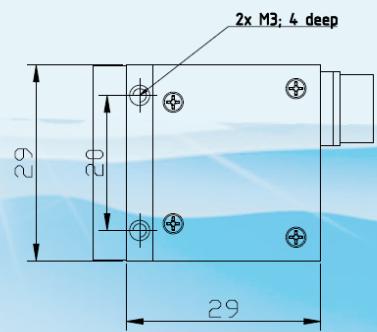
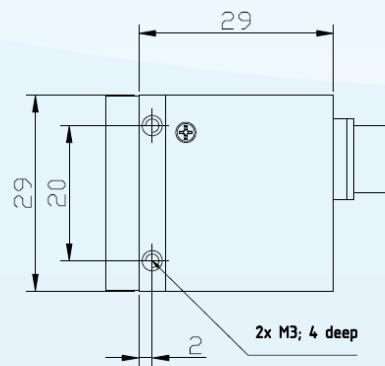
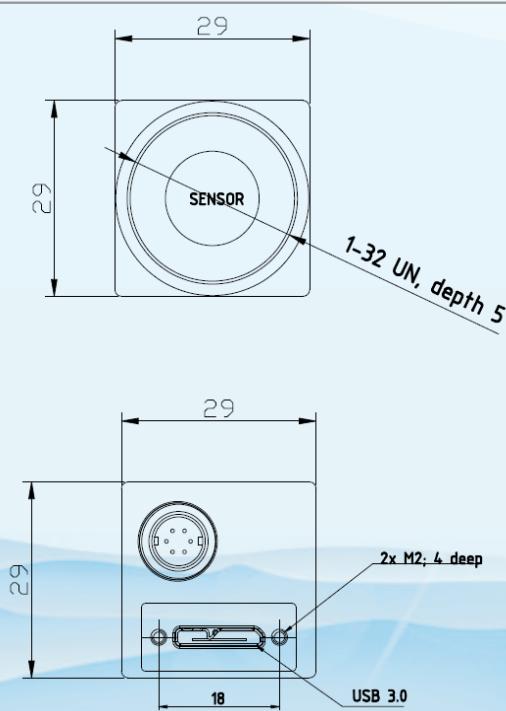
MECHANICAL SPECIFICATION



SUB Series



U3B Series

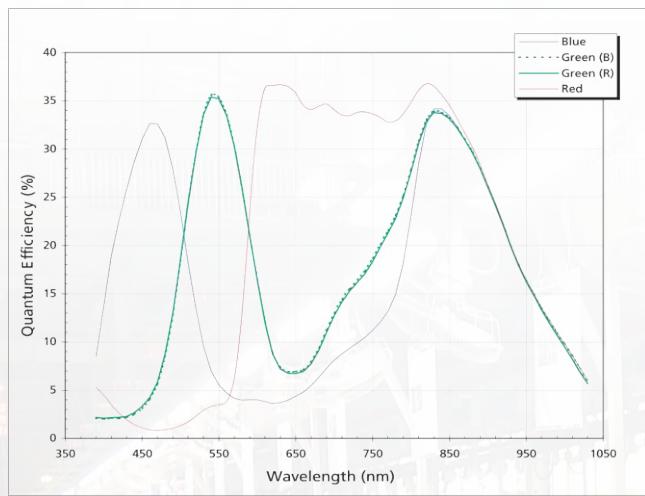




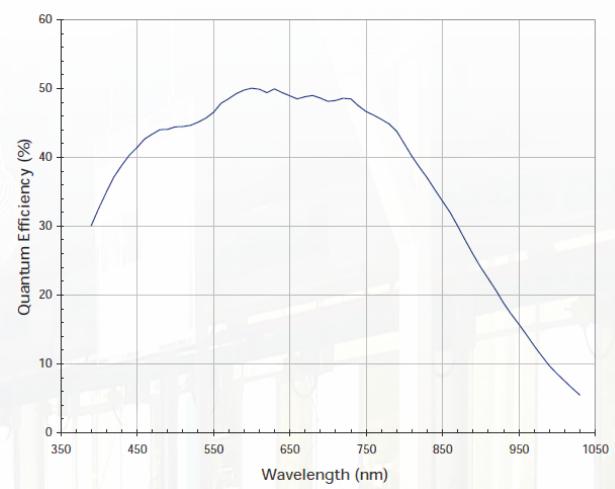
MindVision
TECHNOLOGY
迈德威视

Spectral curve
0.3M

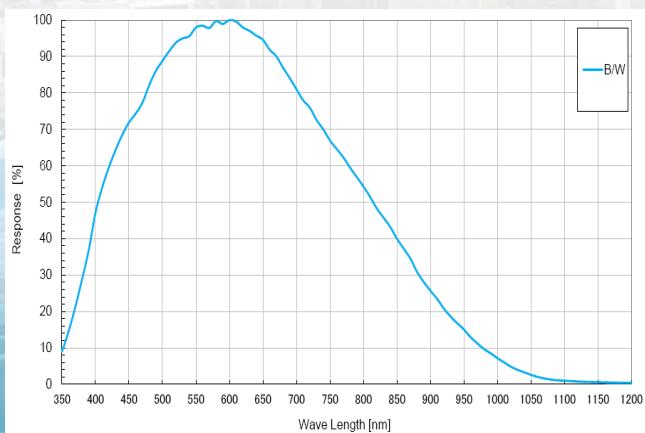
MV-UB31GC
MV-GE31GC ,MV-U3B31GC



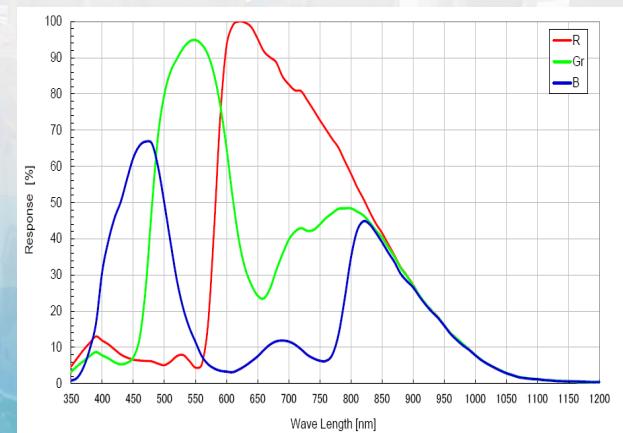
MV-GE31GM
MV-U3B31GM,MV-UB31GM



MV-GED32M



MV-GED32C



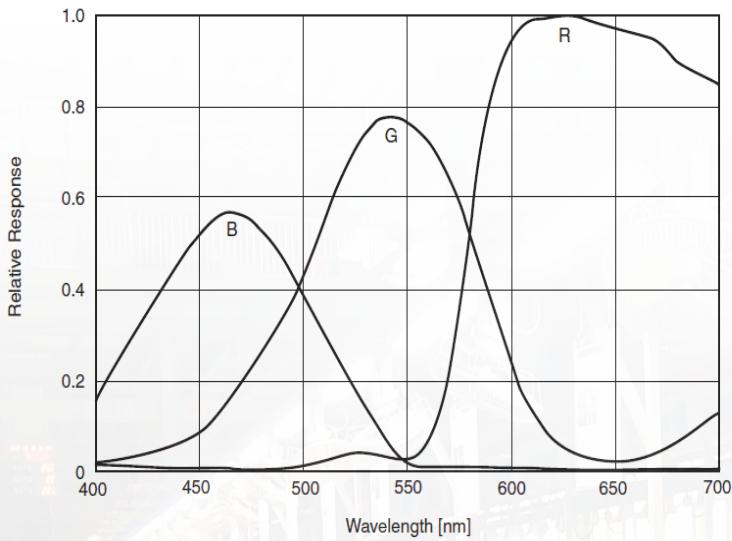
Spectral curve

0.3M/1.3M

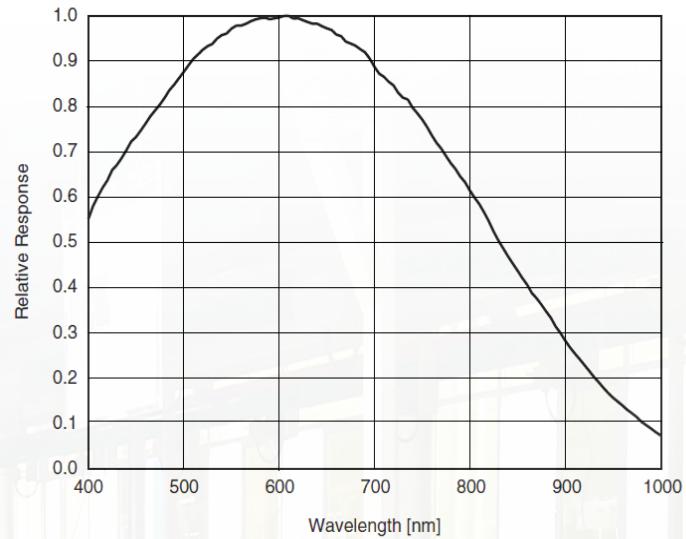
MindVision
TECHNOLOGY



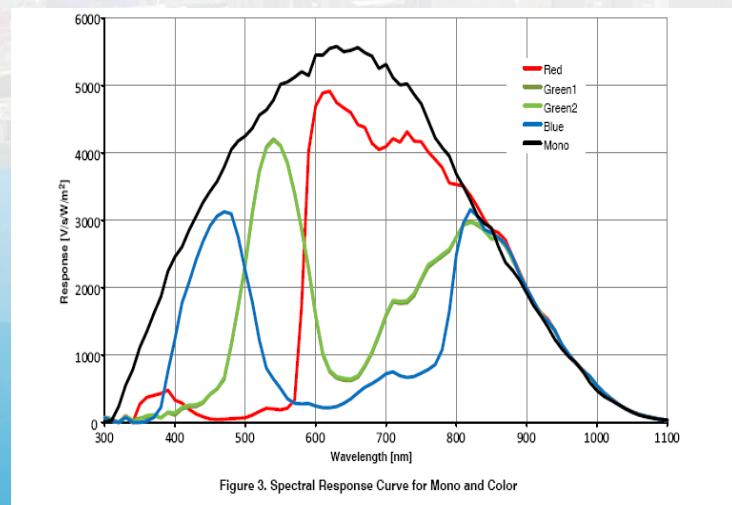
MV-UBD31C ,MV-GED31C



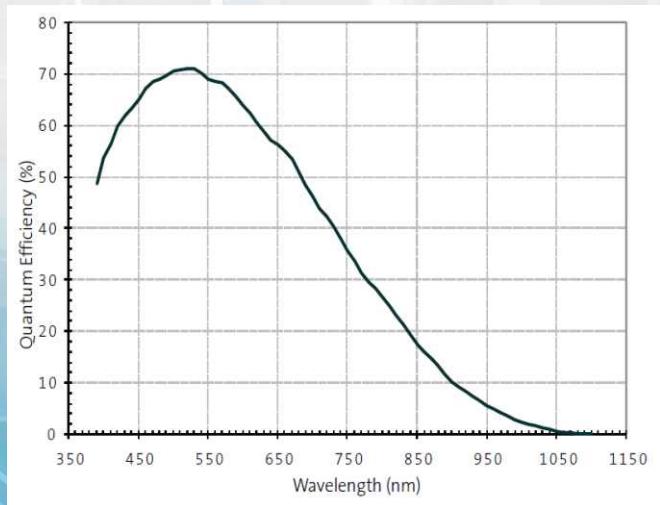
MV-UBD31M,MV-GED31M



MV-GE32GC/M,MV-GE132GC/M
MV-SUB32GC/M,MV-SUB132GC/M



MV-UB130M
MV-GE130M,MV-U3B130M

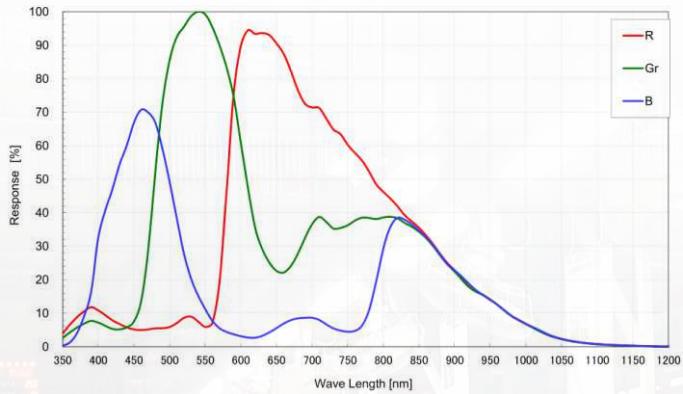




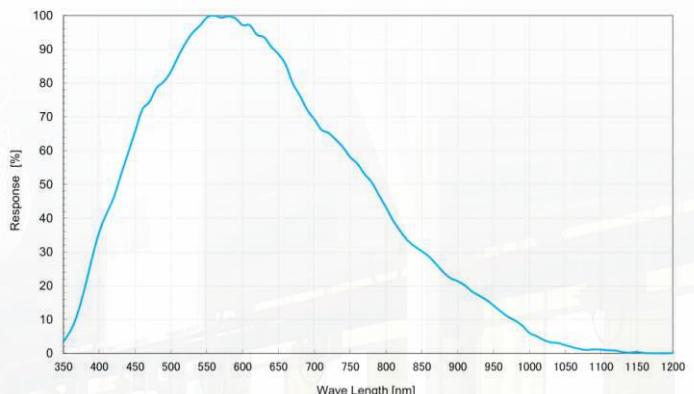
MindVision
TECHNOLOGY
迈德威视

Spectral curve
1.3M

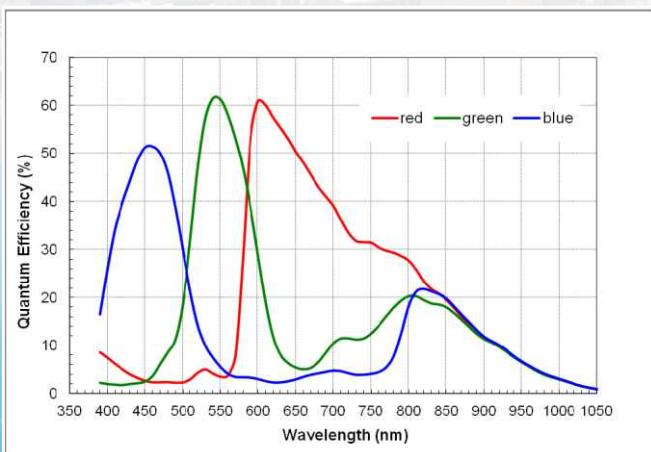
MV-GED130C, MV-UBD130C



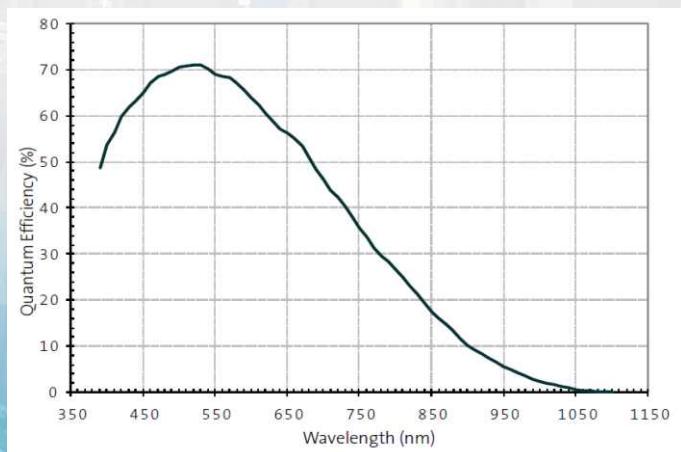
MV-GED130M, MV-UBD130M



MV-UB130GC
MV-GE130GC, MV-U3B130GC



MV-UB130GM
MV-GE130GM, MV-U3B130GM

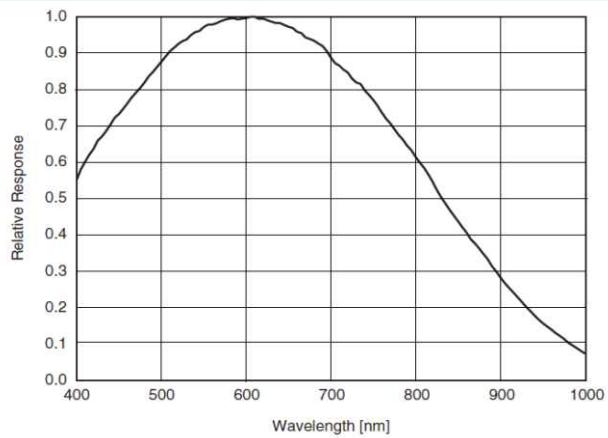




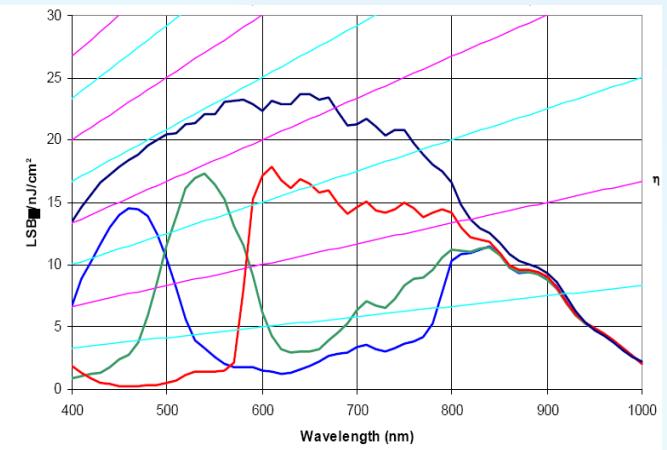
MindVision
TECHNOLOGY
迈德威视

Spectral curve
1.4M/2.0M

MV-GED141M



MV-GE200GC/M

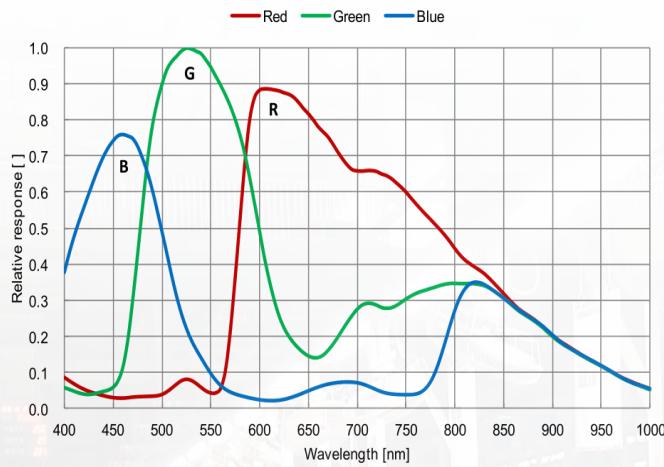




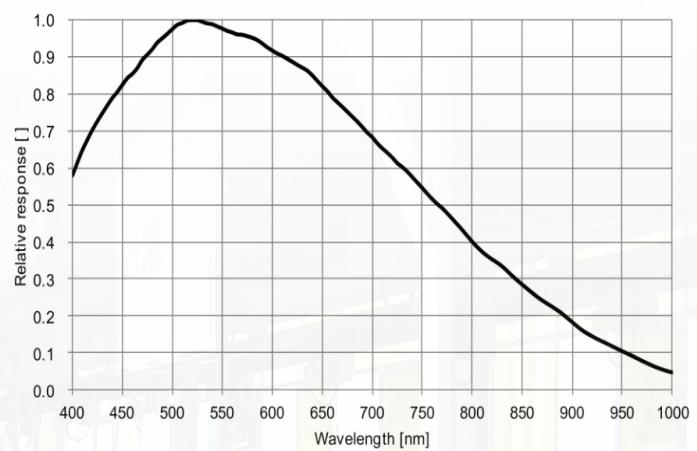
MindVision
TECHNOLOGY
迈德威视

Spectral curve
2.0M/2.3M

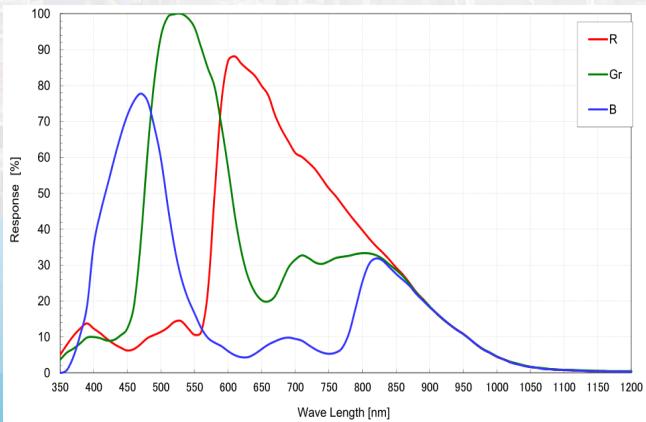
MV-SUB231GC
MV-SUB230GC,MV-GE231GC



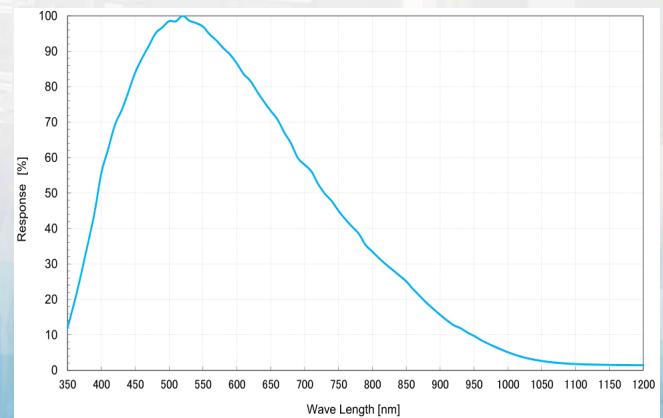
MV-SUB231GM
MV-SUB230GM,MV-GE231GM



MV-GED200C



MV-GED200M





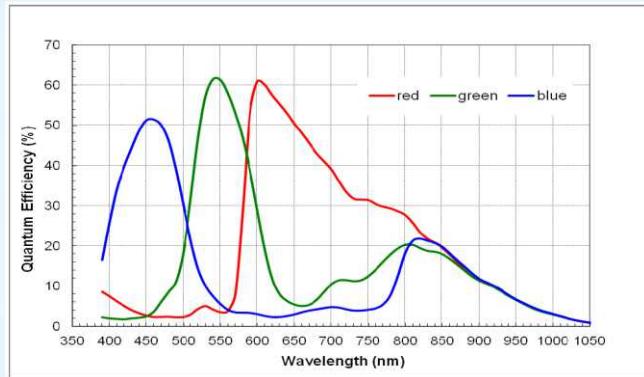
MindVision
TECHNOLOGY
迈德威视

Spectral curve

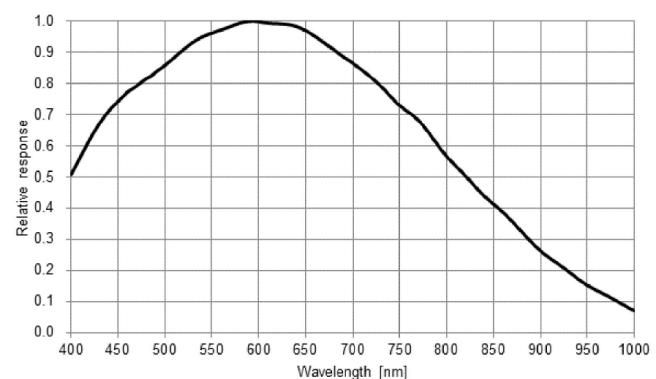
3.0M/5.0M

MV-U300

MV-UB300,MV-U3B300

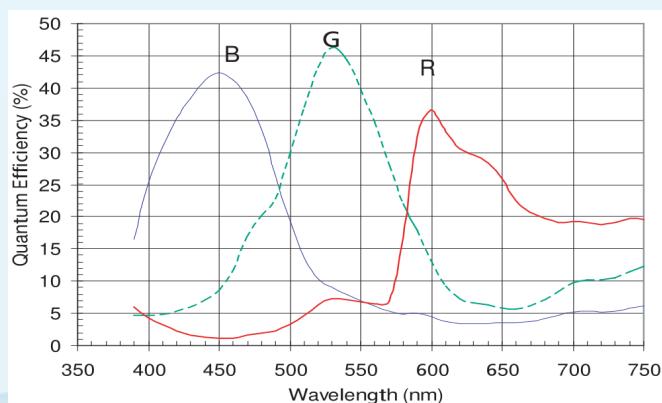


MV-GE501GM,MV-SUB501GM



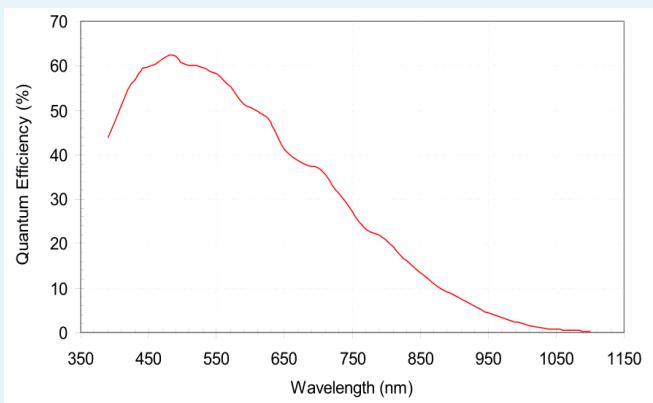
MV-UB500

MV-GE500C,MV-U3B500C



MV-UB500M

MV-GE500M,MV-U3B500M

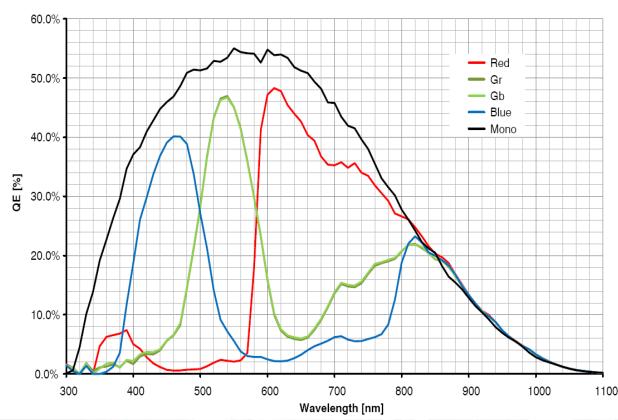


Spectral curve 5.0M

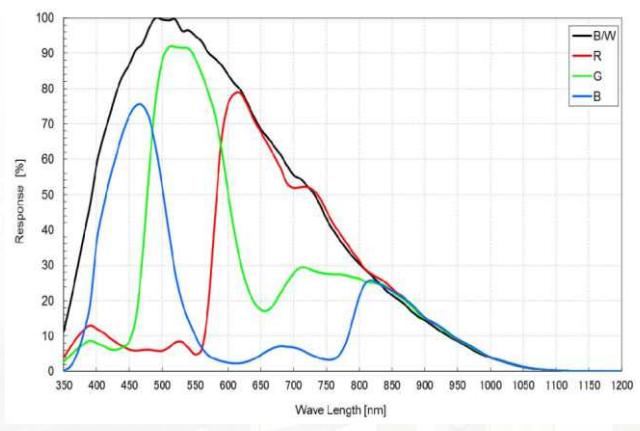
MindVision
TECHNOLOGY 万德威视



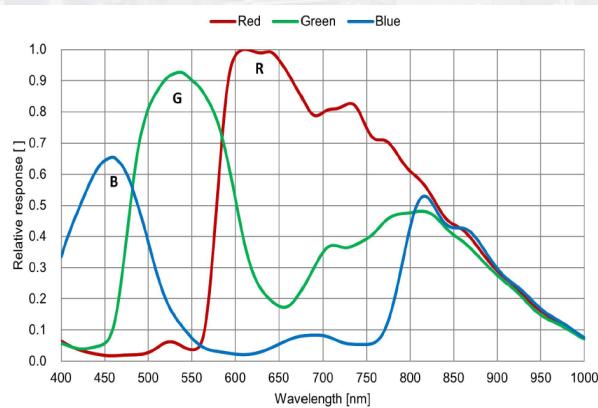
MV-GED500C/M



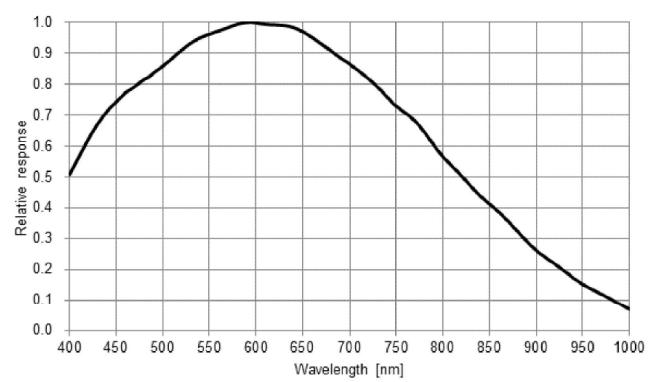
MV-SUB502GC/M, MV-GE502GC/M



MV-SUB501GC, MV-GE501GC



MV-SUB501GM, MV-GE501GM

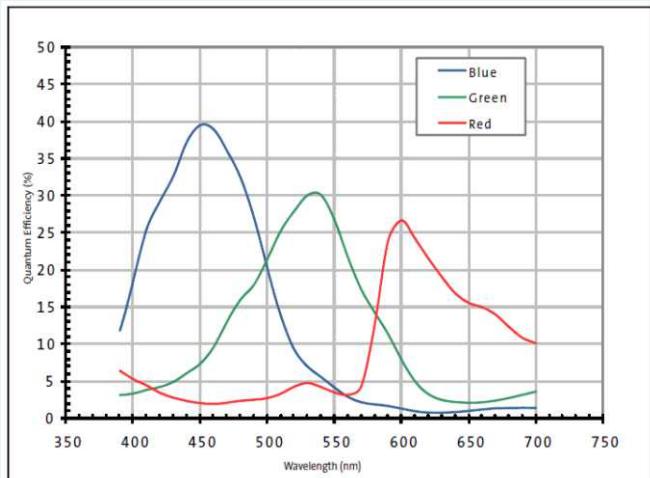




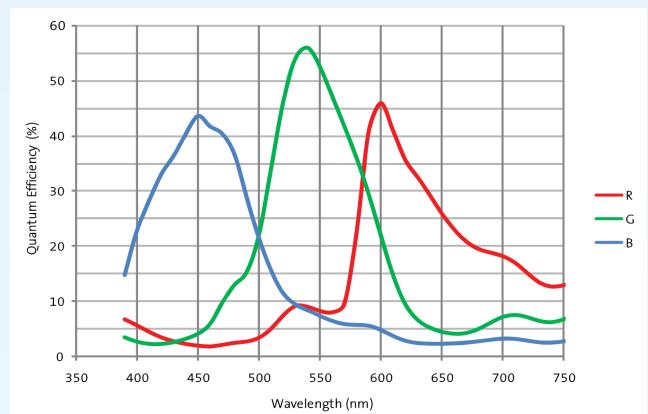
MindVision
TECHNOLOGY
迈德威视

Spectral curve
10.0M/14.0M/16.0M

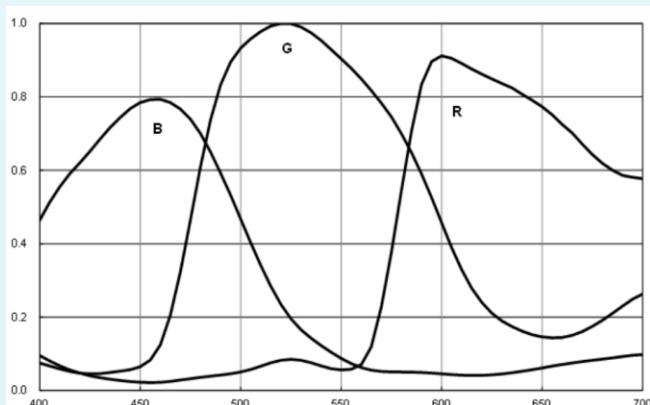
MV-UB1000,MV-UBS1000



MV-SUB1400C,MV-GE1400C

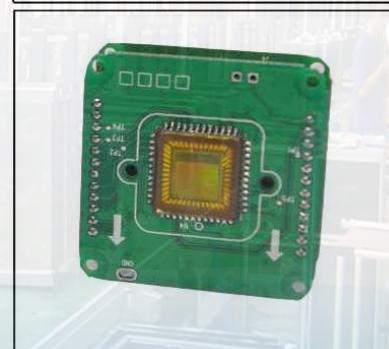
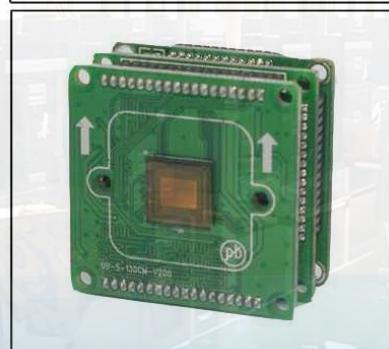
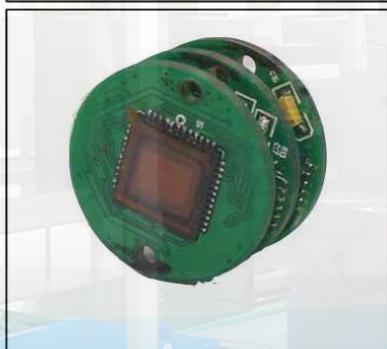
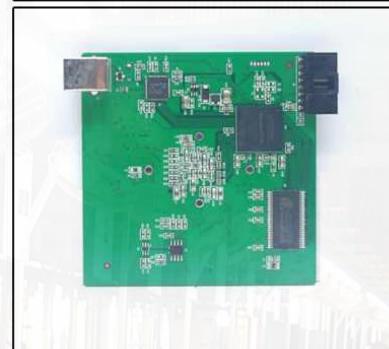
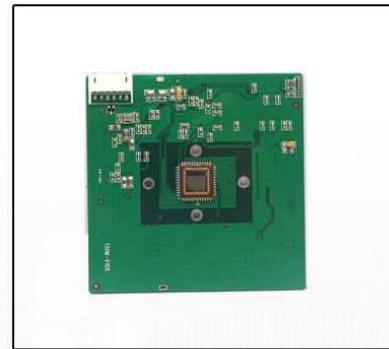
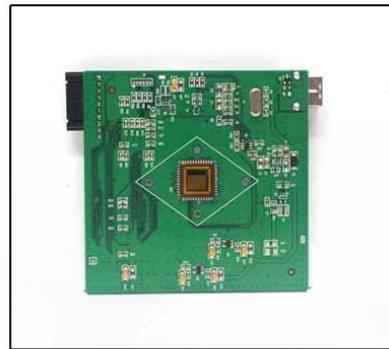
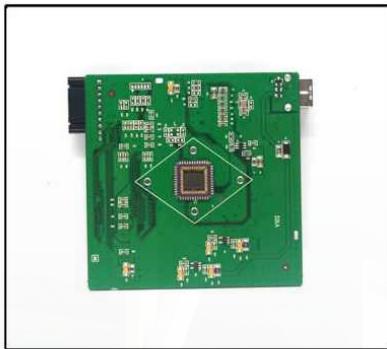


MV-SUB1600C,MV-GE1600C





OEM



All products are accepted hardware PCB size custom,
Module can be sold separately.
Providing software and hardware OEM services!



商业诚为本 业以信为基

严格管理 持续改进 优质高效



Address: Shenzhen Bantian District of Longgang Shangxue Road on the 1 floor of building 7 Of
Huaxing Industrial Zone.

Telephone: +86-0755-28376557

Fax: +86-0755-28415851

Sales email: sales@mindvision.com.cn

Technical support: support@mindvision.com.cn