HIKROBOT Business

Strong supply chain

Fast professional customization

16000+ engineers in R&D team

Efficient programming and delivery capability

Mature R&D management

AI

Deep understanding in industry

Deep learning

Global marketing networks

Rigorous quality management system

Rich experience in management and marketing

AI Cloud

Vision

Comprehensive after-sales service

Comprehensive after-sales service

Image identification

HIKVISION

AI Team

HIKVISION

Machine Vision Department

2014

Established subsidiary company

Hangzhou Hikrobot Technology Co., Ltd.

- 1,200+ Employees
- Three Business Divisions

Future

Continuous push robot intelligence

HIKROBOT Products

Industrial Camera

Smart Camera

Smart 3D Camera

Vision Controller

Lens
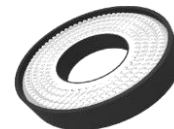
Illumination   **Accessories**

See Far, Go Further

HIKROBOT Product Family
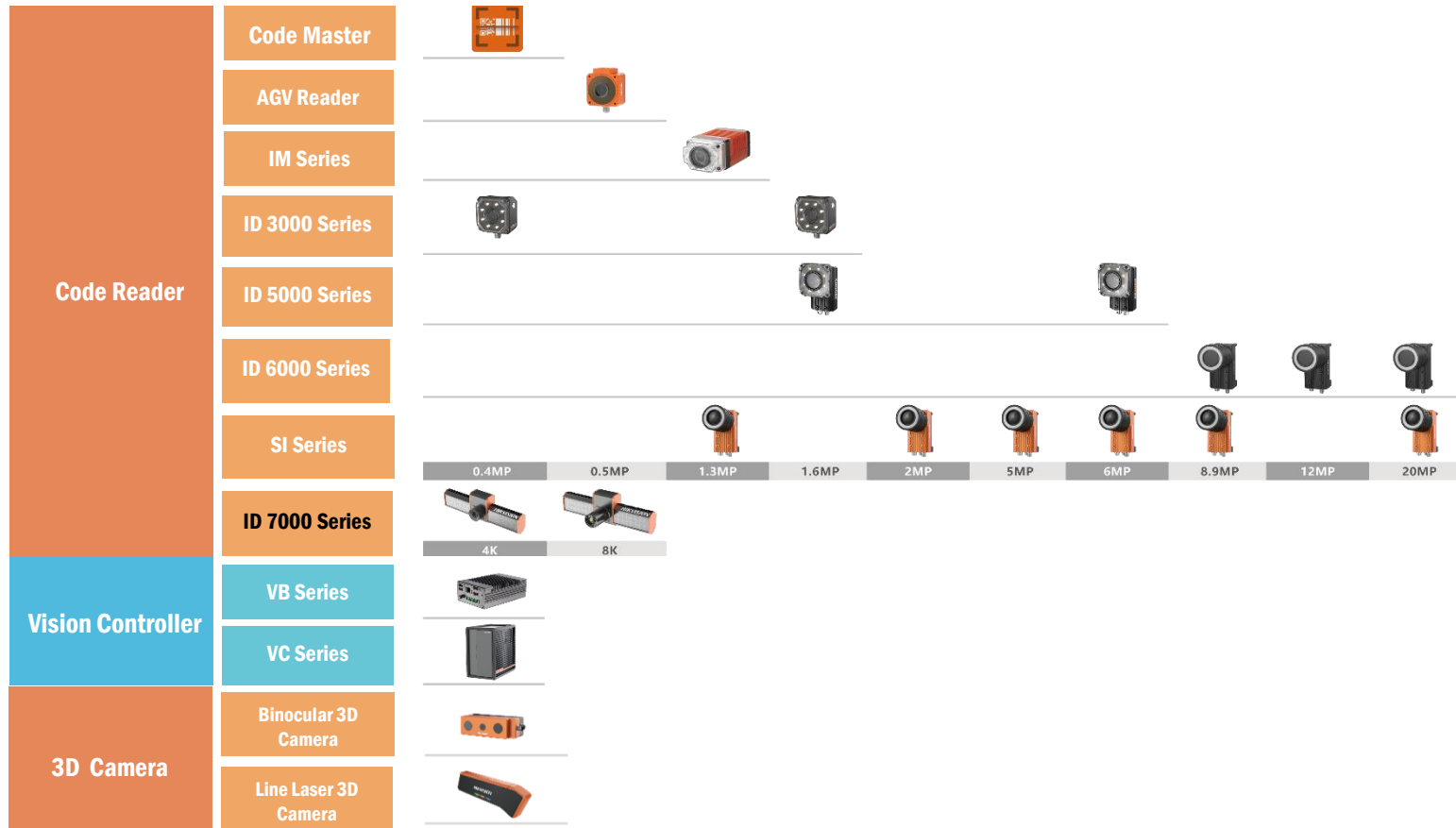
HIKROBOT Area Scan Camera Product Line

Polytec

GigE Vision
10 GigE Vision
Camera Link
USB3 Vision
CoaXPress

CH series
• Multi Protocols
• High Resolution

CA series
• 17fps → 814fps
• Global

CE series
• 5.9fps → 173fps
• Global/ Rolling/ Global Reset

CB series
• 21fps → 170fps
• Global/ Rolling/ Global Reset

| 0.3/0.4/0.5M | | 2/ 2.3M | | 5/ 6M | | 10/ 12M | | 20M | | 29/ 31M | | 65M |
| 1.3/1.6M | | 3.2M | | 8/ 8.9M | | 15M | | 25M | | 43M | | 151M |

HIKROBOT Industrial Camera

CB Series
- Board Level Camera

CE Series
- high cost-effective

CA Series
- Advanced, high-performance

CH Series
- High-end, excellent image quality

Overview — **Functions** — **Image Performance** — **Reliability**

VGA ····· 151MP

GiGE VISION   USB3 VISION

10 GiGE VISION   CAMERA Link

CoaXPress   GEN<i>CAM

GAMMA
Events
Auto
Gain
Fast Trigger
Auto
Exposure
User Sets
SEQUENTIAL IMAGE SETTING   AOI
Packet Resend   HDR Control
Sharpness   Multi Cast
WB   HIKVISION
White Balance
Black Level Control   PTP
FPNC Precise Exposure Control
AUTO
NEGOTIATION
Flow Control
LUT
ROI
Global Reset

SONY   Pregius   STARVIS
ON   SHARP

FPN Correction	HDR
Bayer Interpolation	De-noise
FFC Correction	...

| EMC/EMI/ESD | Environment/HALT |
| Shock/Vibration | Functional Tests |

| Heat dissipation | Compact |

CE CA and CB Series Cameras

Features

➢ **Compact structure design**

➢ **AEC (automatic exposure control), LUT, Gamma Correction etc.**

➢ **Both hardware and software trigger modes**

➢ **128MB onboard memory for burst transmission and retransmission**

➢ **HDR polling**

➢ **Compliant with GigE Vision, USB3 Vision and GenICam.**

➢ **1 x Opto-isolated input, 1 x Opto-isolated output and 1 x Bi-directional non-isolated**

ON PYTHON/SONY IMX

1.3mp/6mp/12mp

USB3.0

Aptina/Sharp/ON PYTHON/SONY IMX

0.3mp/0.4mp/0.5mp/1.3mp/2,3mp/3.2mp
/5mp/6mp/10mp/12mp/20mp

GigE/USB3.0

SONY IMX

8.9mp/12mp

GigE/USB3.0

CA Series GigE Interface

- **ADVANCED**

Mode	Resolution (Pixels)		Pixel Size (µm)	Frame rate (fps)	Sensor type	Shutter type
MV-CA003-20GM/GC	0.3MP	672 × 512	4.8	300	PYTHON300 1/4"	
MV-CA004-10GM/GC	0.4MP	720 × 540	6.9	312.9	IMX287 1/2.9"	
MV-CA005-20GM/GC	0.5MP	808 × 608	4.8	116	PYTHON480 1/3.6"	
MV-CA013-20GM/C/N	1.3MP	1280 × 1024	4.8	90	PYTHON1300 1/2"	
MV-CA016-10GM/C	1.6MP	1440 × 1080	3.45	78.2	IMX273 1/2.9"	
MV-CA020-10GM/C	2MP	1624 × 1240	4.5	60	IMX430 1/1.7"	CMOS Global
MV-CA020-20GM/C	2MP	1920 × 1200	4.8	51	PYTHON2000 2/3"	
MV-CA023-10GM/C	2.3MP	1920 × 1200	5.86	41	IMX249 1/1.2"	
MV-CA032-10GM/C	3.2MP	2048 × 1536	3.45	37.5	IMX265 1/1.8"	
MV-CA050-10GM/C	5MP	2448 × 2048		23.5	IMX264 2/3"	
MV-CA050-20GM/C/N	5MP	2592 × 2048	4.8	22	PYTHON5000 1"	
MV-CA060-10GM/C **MV-CA060-11GM**	6MP	3072 x 2048	2.	17	IMX178 1/1.8"	CMOS Rolling

Note:
GM means Monochrome type
GC means Color type
GN means Near-Infrared type

CA Series USB3.0 Interface

- **ADVANCED**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type	Shutter type
MV-CA003-21UM/C	0.3MP	640 × 480	4.8 μm	814 fps	PYTHON300 1/4"	CMOS Global
MV-CA004-10UM/C	0.4MP	720 × 540	6.9 μm	523.5 fps	IMX287 1/2.9"	
MV-CA013-21UM/C	1.3MP	1280 x 1024	4.8 μm	170 fps 90 fps	PYTHON1300 1/2"	
MV-CA016-10UM/C	1.6MP	1440 × 1080	3.45 μm	165.9 fps	IMX273 1/2.9"	
MV-CA020-10UM/C	2MP	1624 × 1240	4.5μm	89fps	IMX430 1/1.7''	
MV-CA023-10UM/C	2.3MP	1920 × 1200	5.86 μm	41 fps 40fps	IMX249 1/1.2"	
MV-CA050-11UM/UC	5MP	2448 × 2048	3.45 μm	35 fps	IMX264 2/3"	
MV-CA050-20UM/UC	5MP	2592 × 2048	4.8 μm	60fps 30fps	PYTHON5000 1"	

CE Series GigE Interface

- **Economic**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type	Shutter type
MV-CE003-20GM/GC	0.3MP	640 × 480	4.8 μm	173 fps	PYTHON480 1/3.6"CMOS	Global
MV-CE013-50GM/GC	1.3MP	1280 × 960	3.75 μm	30 fps	Sharp RJ33 1/3" CCD	Global
MV-CE050-30GM	5MP	2592 × 1944	2.2 μm	14 fps	Aptina MT9P031 1/2.5" CMOS	Global
MV-CE050-31GM/GC	5MP	2592 × 1944	2.2 μm	24 fps	Aptina AR0521 1/2.5" CMOS	Rolling
MV-CE100-30GM/GC MV-CE100-31GM	10MP	3840 × 2748	1.67 μm	7 fps	Aptina MT9J003 1/2.3" CMOS	Rolling
MV-CE120-10GM/GC	12MP	4024 × 3036	1.85 μm	9.6 fps	Sony IMX226 1/1.7" CMOS	Rolling
MV-CE200-10GM/GC MV-CE200-11GM	20MP	5472 × 3648	2.4 μm	6 fps	Sony IMX183 1" CMOS	Rolling

CE Series USB3.0 Interface

- **Economic**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type	Shutter type
MV-CE013-50UM/UC	1.3MP	1280 × 960	3.75 µm	30 fps	Sharp RJ33 1/3" CCD	Global
MV-CE013-80UM	1.3MP	1280 × 1024	4.0 µm	148 fps	Smartsens 1/2.7" CMOS	Global
MV-CE050-30UM/UC	5MP	2592 × 1944	2.2 µm	31 fps	Aptina AR0521 1/2.5" CMOS	Rolling
MV-CE060-10UM/UC	6MP	3072 × 2048	2.4 µm	42.7 fps	Sony IMX178 1/1.8" CMOS	Rolling
MV-CE120-10UM/UC	12MP	4000 × 3036	1.85 µm	30 fps	Sony IMX226 1/1.7" CMOS	Rolling
MV-CE200-10UM/UC MV-CE200-11UM	20MP	5472 × 3648	2.4 µm	14 fps	Sony IMX183 1" CMOS	Rolling

GEN<i>CAM

GigE VISION

CB Series USB3.0 Interface

- **Board Level**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type	Shutter type
MV-CB013-20UM-B MV-CB013-20UC-B	1.3MP	1280 × 1024	5.5 μm	14 fps	PYTHON1300 1/2" CMOS	Global
MV-CB013-20UM-C/S MV-CB013-20UC-C/S	1.3MP	1280 × 1024	4.8 μm	170 fps	PYTHON1300 1/2" CMOS	Global
MV-CB060-10UM-B MV-CB060-10UC-B	6MP	3072 × 2048	2.4 μm	17 fps	Sony IMX178 1/1.8" CMOS	Rolling
MV-CB060-10UM-C/S MV-CB060-10UC-C/S	6MP	3072 × 2048	2.4 μm	17 fps 29 fps	Sony IMX178 1/1.8" CMOS	Rolling
MV-CB120-10UM-B/C/S MV-CB120-10UC-B/C/S	12MP	4032 × 3036	1.85 μm	28 fps 21 fps	Sony IMX226 1/1.7" CMOS	Rolling

- B

- S

- C

Note:

-B means bare board
-S means M12 mount
-C means C mount

CH Series Cameras

Features

➢ High performance line.

➢ Resolutions from 8MP to 151MP

➢ Multiple interfaces: GigE, USB3, CameraLink, 10GigE, CXP.

➢ Based on High End CCD and CMOS image sensors.

➢ Thermal Electronic Cooling(TEC) and fan options for better image performance

ON PYTHON/SONY IMX

5mp/8mp/8.9mp/12mp

USB3.0/Camera link

ON PYTHON/SONY IMX/Kodak/Gpixel

25mp/29mp/31mp/43mp/50mp/150mp

GigE/10GigE/Camera link/Coaxpress

CH Series Cameras High-End

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type
GigE					
MV-CH080-60GM/GC	8MP	3296 × 2472	5.5 µm	14 fps	Kodak KAI08051 4/3" CCD
MV-CH089-10GM/GC	8.9MP	4096 × 2160	3.45 µm	13 fps	Sony IMX267 1" CMOS
MV-CH120-10GM/GC	12MP	4096 × 3000	3.45 µm	9.4 fps	Sony IMX304 1.1" CMOS
MV-CH250-21GM	25MP	5120 × 5120	4.5 µm	4.64 fps	PYTHON25K 23*23mm CMOS
MV-CH250-90GM	25MP	5120 × 5120	2.5 µm	4.5 fps	Gpixel GMAX0505 1.1" CMOS
MV-CH290-60GM/GC MV-CH290-61GM	29MP	6576 × 4384	5.5 µm	4 fps	Kodak KAI29050 36*24mm CCD
MV-CH310-10GM	31MP	6464 × 4852	3.45 µm	3.9 fps	Sony IMX 342 24.9*16.6mm CMOS
USB3.0					
MV-CH050-10UM/UC/	5MP	2448 × 2048	3.45 µm	74 fps	Sony IMX250 2/3" CMOS
MV-CH089-10UM/UC	8.9MP	4096 × 2160	3.45 µm	32 fps	Sony IMX267 1" CMOS
MV-CH120-10UM/UC	12MP	4096 × 3000	3.45 µm	23 fps	Sony IMX304 1.1" CMOS

CH Series Cameras High-End

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type	Shutter type
10GigE						
MV-CH120-10TM	12MP	4096 × 3000	3.45 µm	68 fps	Sony IMX253 1.1" CMOS	Global
MV-CH250-20TM/TC MV-CH250-21TM	25MP	5120 × 5120	4.5 µm	40 fps	PYTHON25K 23*23 mm CMOS	Global
CoaXPress						
MV-CH1510-10XM-M72-NF/TF	151MP	14208 × 10640	3.76 µm	6.2 fps	Sony IMX411 60.33*47.9mm CMOS	Rolling
MV-CH310-10XM-F-NF	31MP	6464 × 4852	3.45 µm	ADC 8bit mode: 17.9 fps ADC 12bit mode: 12.1 fps	Sony IMX 342 APS-C CMOS	Global
MV-CH430-90XM	43MP	7904 × 5432	2.8 µm	16.4 fps	gpixel GMAX0806 22.16*15.22mm CMOS	Global
CameraLink						
MV-CH050-10CM/CC	5MP	2432 × 2048	3.45 µm	140 fps	Sony IMX250 2/3" CMOS	Global
MV-CH290-60CM MV-CH290-61GM	29MP	6576 × 4384	5.5 µm	4.5 fps	OnSemi KAI-29050 36*24mm CCD	Global
MV-CH430-61CM-F-TF	43MP	8032 x 5360	4.5 µm	3.64 fps	Onsemi KAI-43140 36*24mm CCD	Global
MV-CH500-61CM-M58S-TF	50MP	10440 × 4800	4.5 µm	4 fps	OnSemi KAI-50140 46.98*21.6mm CCD	Global

CL Series Cameras

Features

➢ **Resolutions 2K~ 8K pixels per line**

➢ **GigE or CameraLink interface.**

➢ **Automatic or manual exposure control**

➢ **User defined ROI**

➢ **Hardware and software trigger modes**

➢ **PRNU and FPN corrections**

Awaiba CMOS

2K

GigE

e2v CMOS

4K

GigE/Camera link

Gpixel GL0816

8K

Camera link

CL Series Cameras　Line Scan

- **Product Models**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type
GigE					
MV-CL020-40GM	2K	2048 x 1	7 µm	51 KHz	CMOS
MV-CL020-41GC	2K	2048 x 2	7 µm	26 KHz	CMOS
MV-CL021-40GM	2K	2048 x 1	7 µm	51 kHz	CMOS
MV-CL041-70GM	4K	4096 × 1	5 µm	29 kHz	CMOS
MV-CL042-70GC	4K	4096 × 2	5 µm	29 kHz	CMOS
CameraLink					
MV-CL041-70CM	4K	4096 x 1	5 µm	40 kHz	CMOS
MV-CL042-70CC	4K	4096 × 2	5 µm	40 kHz	CMOS
MV-CL082-70CM	8K	8192 x 2	5 µm	40 kHz	CMOS
MV-CL084-90CM **MV-CL086-90CC**	8K	8192 × 4 8192 × 6	5 µm	100 kHz 34kHz	CMOS

Polytec

HIKROBOT Smart Camera

X86 Smart Camera

Barcode reader

Vision Sensor

Features

Traceability

Communication

1.3MP 20MP

GiGE VISION

IP67

intel Atom inside

Movidius an intel company

1D: CODE 128, CODE 39, CODE 93, EAN, ITF 25 etc.

2D: Data Matrix, QR, etc.

TCP/IP, ProfiNet, EtherNet/IP, RS232, Digital I/O, etc.

HIKROBOT Smart Camera

- **Product Models**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type
MV-SI600-37GM MV-SI600-38GM/C	1.3MP	1280×1024	4.8μm	80fps	PYTHON 1300 1/2" CMOS
MV-SI610-07GM MV-SI610-08GM	2MP	1280x1024	4.8μm	50fps	PYTHON 2000 2/3" CMOS
MV-SI620-37GM MV-SI620-38GM/C	5MP	2592×2048	4.8μm	30fps	PYTHON 5000 1" CMOS
MV-SI630-07GM MV-SI630-08GM /C	6MP	3072×2048	2.4μm	17fps	Sony IMX178 1/1.8" CMOS
MV-SI640-08GM	8.9MP	4096 x 2160	3.45 μm	30 fps	Sony IMX267 1" CMOS

Note:
- 07/37GM means without light source and lens cover
- 08/38GM means with light source and lens cover.

HIKROBOT Smart Camera

- **Product Features**

➢ Powerful performance based on top-ranking processor platform
➢ Embedded 64bit win7 operation system
➢ Support third-party software to achieve the final function
➢ Support external light, USB, VGA and RS232 communication with external expansion interface
➢ Multiple options on resolution: 1.3MP/2MP/5MP/6MP/8.9MP
➢ IP67 protection rating

External Expansion Interface

12-Pin Power & I/O

Network Interface

HIKROBOT Vision Sensor

Polytec
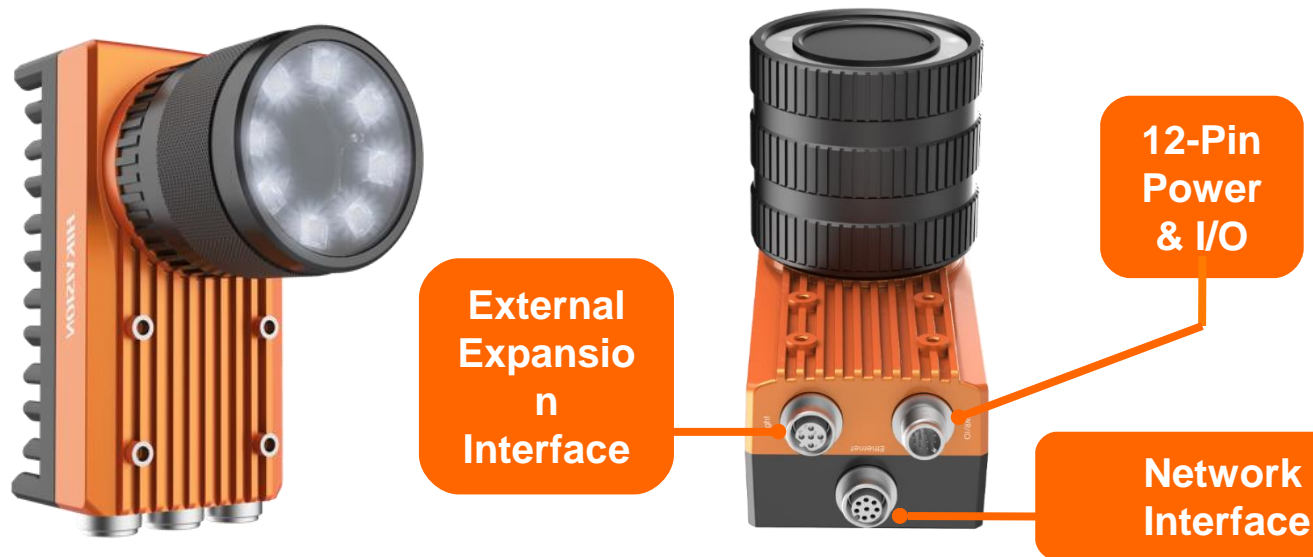
Features:

➢ Excellent performance, rich vision tools integrated

➢ **Web configuration**, user-friendly interface

➢ Compact size, single cable connection design for easy installation

➢ Unique anti-reflective design to eliminate surface reflection

➢ Rich communication protocols and interfaces (**Ethernet/IP, Modbus, TCP/UDP, FTP, serial port RS232/485**)

➢ Widely used in consumer electronics, semiconductor, automotive and pharmaceutical industries.

Top button for manual triggering or project switching with 3 Indicator lights around it

Manual focusing knob

Programmable indicator light

Aviation plug: PWR/IO / Ethernet / Serial port

Optional red/blue/white light
Multiple lens with different focal length to choose from

HIKROBOT Vision Sensor

- **General Structure**

Top button for manual triggering or project switching with 3 Indicator lights around it

Manual focusing switch

Programmable indicator light

Aviation plug: PWR/IO / Ethernet / Serial port

Optional red/blue/white light

Multiple lens with different focal length to choose from

HIKROBOT Vision Sensor

- **Product Models**

Model	Resolution	Pixel size	Frame rate	Sensor type	Function
MV-SC2004M-06S-WBN MV-SC2004M-12S-WBN MV-SC2004M-16S-WBN	0.4M (720 × 540)	6.9 μm	100 fps	1/2.9" CMOS Global shutter	• Feature matching • Find line • Blob Analysis • Find circle • Intensity measure • Interval measure • Contrast measure • L2L measure
MV-SC2016M-06S-WBN MV-SC2016M-12S-WBN MV-SC2016M-16S-WBN	1.6M (1440 × 1080)	3.45 μm	60 fps	1/2.9" CMOS Global shutter	

Note:

1. -06S means 6mm focal length,-12S means 12.4mm focal length,- 16S means 14.8mm focal length;
2. WBN –w means white light, b means basic light, n means normal cover(optional polarizer cover);

HIKROBOT Smart Code Reader

- **Product Models**

Overview

Embedded with deep learning algorithm.
Stronger Intelligence Analysis Ability.

Features

➢ **High-performance algorithm combined with deep learning function easily handles the complex situation of dirty, defect, low contrast, etc.**

➢ **Integrated LED indicator for debugging process and display performance**

➢ **Optimized light source cup design ensures brightness uniformity**

➢ **Updated fin-type case largely improves the heat dissipation performance**

➢ **IP65 protection level, meeting the requirement of strict industrial environment**

Mode	Resolution	No. of pixel	Pixel size	Frame rate	Sensor type
MV-ID3004M-06S-WBN MV-ID3004M-12S-WBN MV-ID3004M-15S-WBN	0.4MP	704 × 512	6.9 μm	50 fps	1/2.9" CMOS Global shutter
MV-ID3016M-06S-WBN MV-ID3016M-12S-WBN MV-ID3016M-15S-WBN	1.6MP	1408 × 1024	3.45 μm	20 fps	1/2.9" CMOS Global shutter

HIKROBOT 3D Camera

Volume measurement

3D mapping

Overview

Cameras can export the depth data as well as the image information. Establish 3D model using the depth data.

Features

- Less influence by measured object surface texture and color
- Supports real-time output of 16-bit high-resolution depth map data
- Supports various operating distances
- Provides various SDKs, supports access to various mainstream operating systems

Application

- Volume measurement
- 3D mapping
- Robot guide
- Human-computer interaction
- Face recognition

HIKROBOT 3D Camera

- **Application Description and Display**
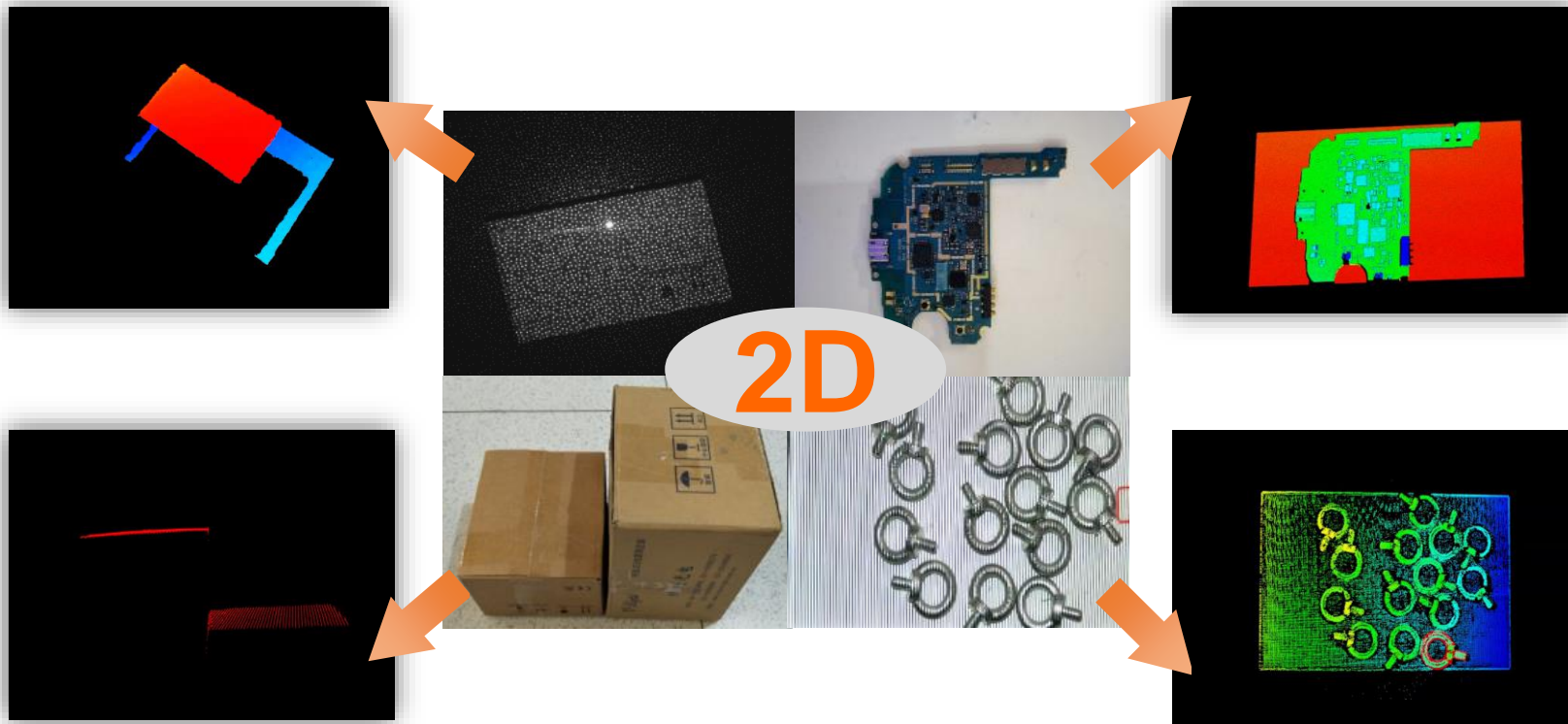
HIKROBOT 3D Camera

- **Product Models**

MV-DS135-06GM-L

MV-DL1617-05L

◆ Integrated high-precision algorithms

◆ Apply NIR laser module, larger dynamic range

◆ Narrow band optical filter design, ambient light effectively restrained

◆ Support depth data or volume measurement data output

◆ High precision line laser, high stability

◆ High frame rate, stable profile

◆ Integrated design without moving parts

◆ IP65 protection level, adapted to harsh industrial environment

HIKROBOT Binocular 3D Camera

Polytec

- **Product Models**

The binocular 3D camera can export the depth data as well as the image information. Establish 3D model using the depth data.

Specifications

➢ Near FOV: **640mm x 540mm**

➢ Far FOV: **1040mm x 840mm**

➢ Clearance Distance (CD): **900mm**

➢ Measurement Range (MR): **500mm**

➢ Detection Accuracy: **8mm**

Application

➢ 3D Mapping;

➢ Robot Guidance;

➢ Static volume measurement, etc.
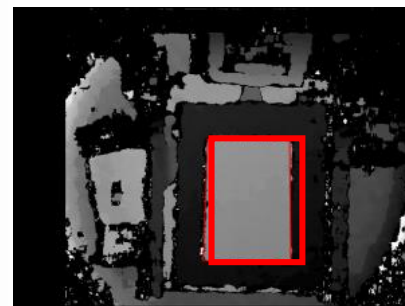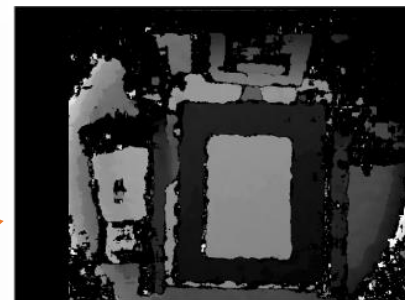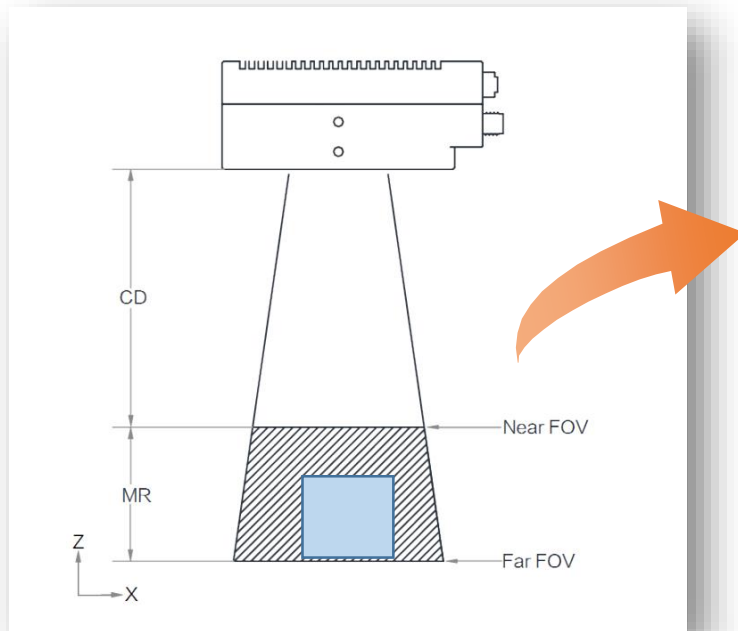
HIKROBOT Line Laser 3D Camera

- **Product Models**

The line laser 3D camera adopts high precision line laser solution, which has a high collecting frame rate. It can be used for logistics measurement.

Specifications

➢ Near FOV: **1000mm**

➢ Far FOV: **2235mm**

➢ Clearance Distance(CD): **750mm**

➢ Measurement Range(MR): **1000mm**

➢ Scan rate: **200Hz@1m³ MR**

➢ measurement accuracy: **±5mm**

Application

➢ Dynamic volume measurement in logistics
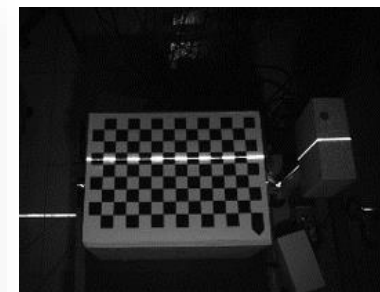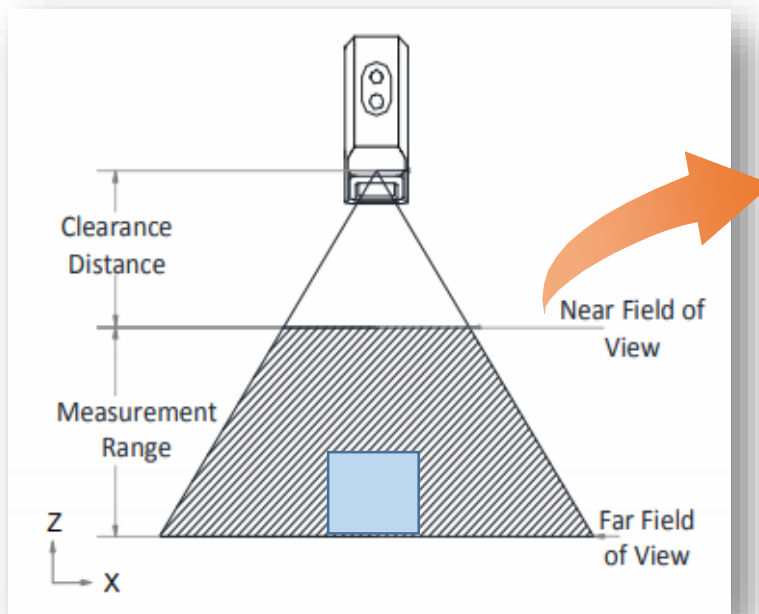
HIKROBOT VB Series

- **Product Models**

Hikvision Vision Box is Specially designed for Machine vision industry. It can be applied in image acquisition, algorithm process, IO Control, communication etc.

| Image Acquisition | Algorithm Process | IO Control | Communication |
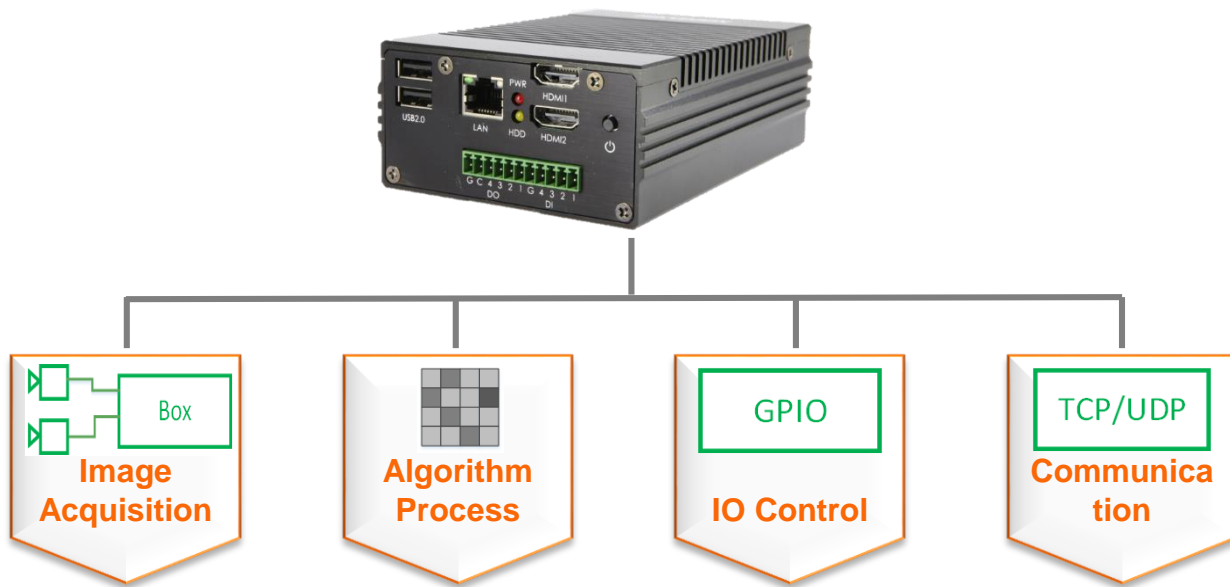
HIKROBOT VB Series

- **Product Models**

The Vision Box contains **2 intel-chip GigE ports** with enhanced anti-surge design, ensure the machine vision camera stable access. And the USB3.0 interface of the vision box can connect to the USB3.0 camera.

■ **Connect cameras directly through the Ethernet port**

Maximum support for three gigabit cameras
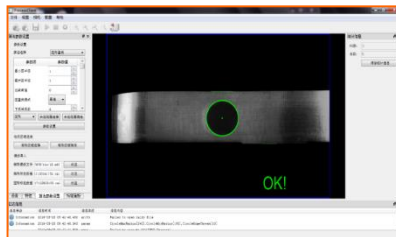
HIKROBOT VB Series

- **Product Models**

■ **Processor Performance**

Intel E3845, 1.91GHz CPU ⟷ **Intel® Core™ i3 processor**
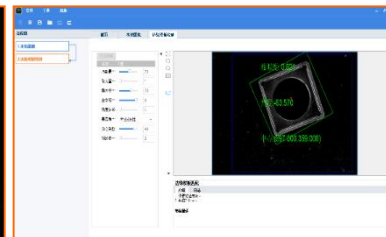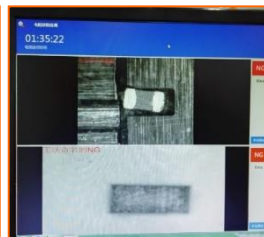
■ **Algorithm**

The Vision Box can be Embedded with MV software and algorithm process, and complete algorithm operation and result output.

HIKROBOT VB Series

- **Product Models**

  ■ **4 GPIO**

  ☐ 4 inputs, which can connect camera IO, optoelectronic switch, etc.

  ☐ 4 outputs, which can connect PLC, relays, etc.


■ **Connector** (MV-VB2210-120G support)

☐ Voltage control, output voltage range: 0~24V DC, the maximum output power: 24W

☐ It can support the power supply and brightness adjustment of single light source(Does not contain point light source, because point light source is controlled by current)
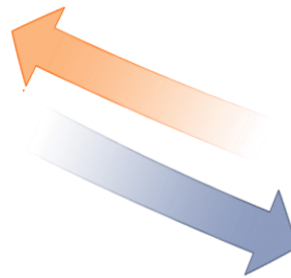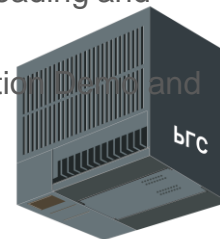
HIKROBOT VC Series

- **Integration feature**

Integration

- ➤ 8 Opto-isolated input
- ➤ 8 NPN/PNP switchable Opto-isolated output
- ➤ I/O control via MCU which provides better real-time performance
- ➤ Support signal level reading and trigger interruption
- ➤ Provide C# configuration file and C++ SDK
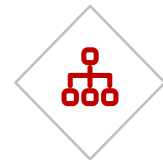
HIKROBOT Industrial Lens

FA Lens

Telecentric Lens

Overview

- Full series of fixed-focus lens products, HF Series (1/1.8" 6MP), KF series (1.1" 12MP), MF Series (2/3" 8MP), SA Series (4/3" 10MP), LF Series (large Image), focal length coverage 8mm~85mm.
- Comprehensive telecentric lens products, Standard Telecentric Lens Series and High-definition Telecentric Lens Series, magnification coverage 0.5~4.

Features

- Small structure
- High transmittance
- With macro effect
- Imaging effect in -40 ° C or 70 ° C environment is consistent with 25 ° C
- Image effect keep same before and after strong vibration test

HIKROBOT Industrial Lens

- **Product Models**

HIKROBOT Industrial Lens adopts high quality industrial design, including professional optical design, superior lens material and well-appointed test system. It has the characteristics of high resolution, high transmittance and low distortion. It is very suitable for the occasions of industrial automation and machine vision.
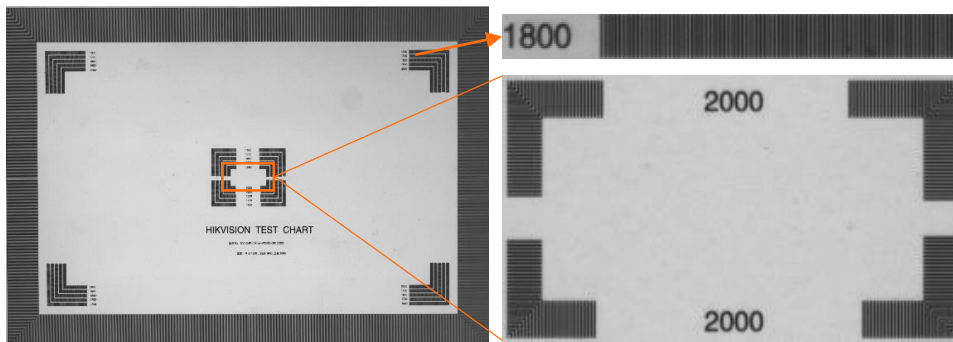

FA Lens

Telecentric Lens

HIKROBOT FA series Lens

- **Product Models**

FA Lens

Features

➢ Low distortion

➢ High transmittance

➢ Compact structure

➢ Multi-layer broadband AR coating technology on the lens surface to ensure the high transmittance of visible light and NIR

➢ Stable performance against vibration and temperature variation

HIKROBOT FA series Lens

- **Product Models**

HF Series
1/1.8"
6MP
f6--50mm

KF Series
1.1"
12MP
f12--50mm

MF Series
2/3"
8MP
f8--50mm

SA Series
4/3"
10MP
f12--85mm

HIKROBOT Telecentrics Lens

- **Product Models**

Telecentric Lens

Distortion VS Image Height

449 nm
570 nm
640 nm

Telecentricity VS Field

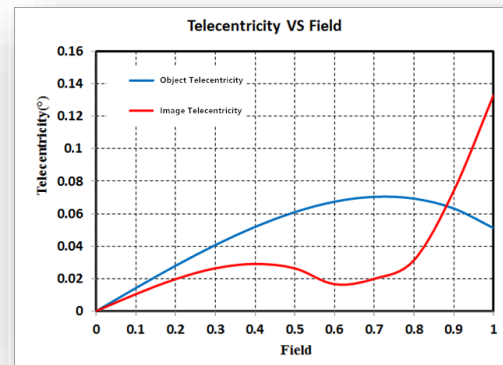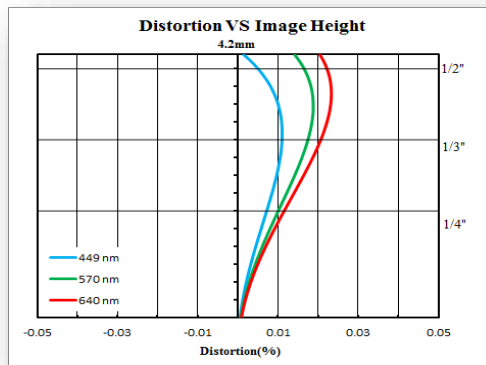Object Telecentricity
Image Telecentricity

Features

➢ Nearly zero distortion, suitable for high precision measurement and positioning

➢ High telecentricity

➢ High resolution and uniformity

➢ Magnification range covers 0.5X to 4X

➢ Stable performance against vibration and temperature variation

HIKROBOT Products

- **Protocol Compatibility**

Industry standard Protocols :

Support 3rd party software:

HIKROBOT SDK

- **Protocol Compatibility**

Hikvision industrial camera SDK is based on GenICam standard, compliant with GigE Vision and USB3 Vision standard, and can be used to control the connected industrial area cameras and line cameras, supporting camera image debugging and secondary development.

Key Features

- Users can use SDK API or MVS to debug camera image, acquire and set camera parameters
- Powerful GigE driver can improve the ability of transmitting and processing image with extremely low CPU resources
- USB3 driver fully supports USB3 Vision standard and ensure that the U3V camera transmits ultra-high-speed image data with USB3.0 bandwidth
- Rich API interfaces can be used to facilitate quick and effective secondary development
- Various sample programs, source code, and development documentation are provided for quick start
- Support further API encapsulation, plug-in, and other forms of customization

Supported Platforms	Supported Programing Languages	Supported IDE
Windows 32-bit/64-bit Linux 32bits/64bits	C C++ C# VB.NET Python	VC6.0 VS2008 and above QT XE5 BCB6.0

SDK can be downloaded freely by the official website
http://en.hikrobotics.com/service/soft.htm?type=1

HIKROBOT MV Real Application

- **Scenario Introduction**

Logistics
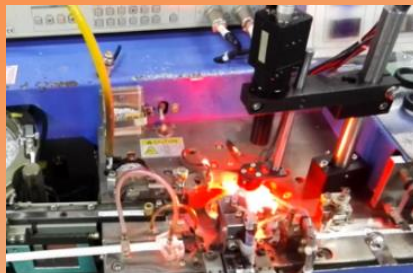
Consumer Electronics

Electronic/ semiconductor

Manufacturing (Automobile)

Textile

New Energy

Food/ Medicine

Under-Vehicle Surveillance System

Typical applications: measurement, guidance, information recognition, inspection, deep learning

Thank you !