

Joview

Smart Technology

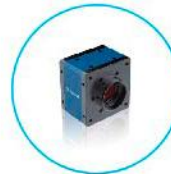
— Start a new vision era —



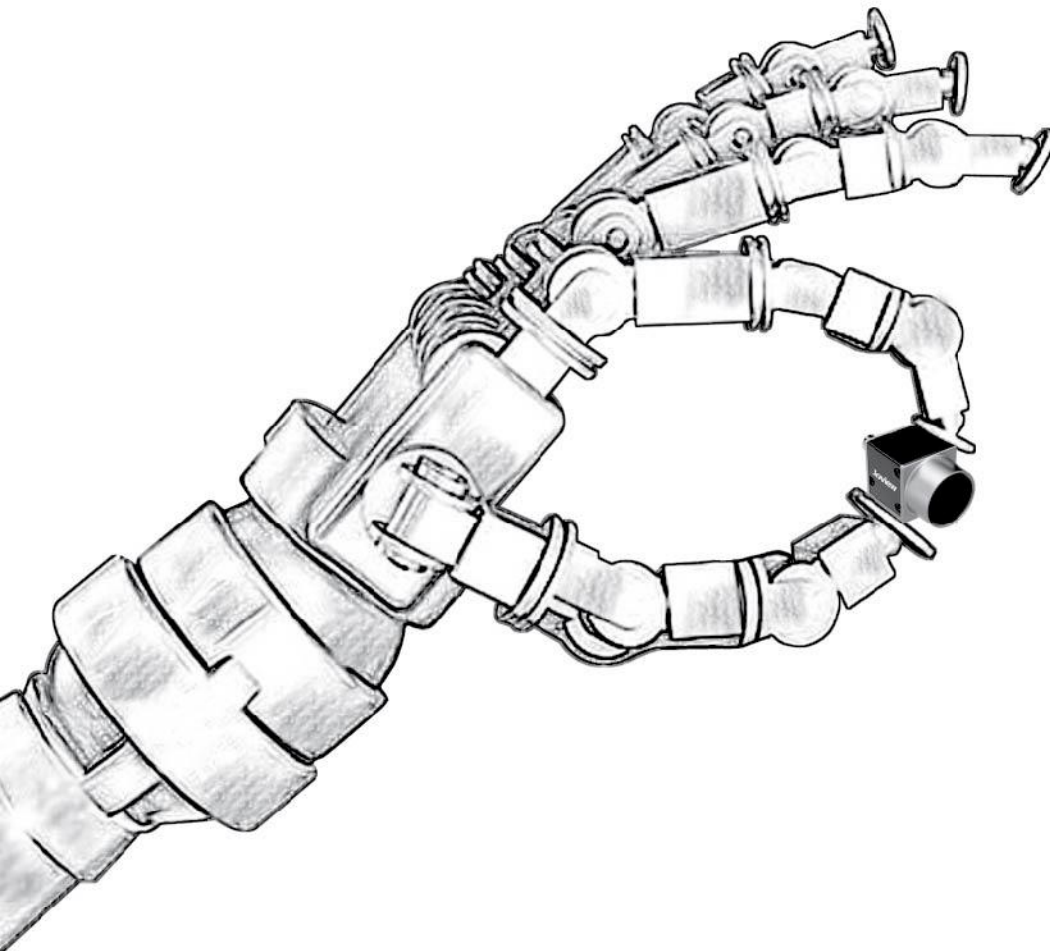
- Wide range of applications
- JVS series: Small and low power consumption
- JVM series: high resolution with large pixels
- JVL series: up to full-frame CCD with super higher resolution
- Gigabit Ethernet industrial camera with excellent image quality

GiGE[®]
VISION

GEN*i*CAM
Generic Interface for Cameras



Compact in type Exquisite in core



SMALL size

Small size and light weight
29mm x 29mm x 29mm

About our company

Our company is engaged in product research, development and marketing in machine vision industrial, including cameras production, machine vision image processing software (with positioning, image contrast, measurement and OCR recognition) and industrial lenses (including telecentric lenses) production.

The company has experts specializing in the application of CCD and CMOS device as while as image processing specialists. Expert doctor, master, bachelor and other professionals are working hard and joyfully here for a perfect goal.

The company has successfully developed several series type of industrial camera. Among them, the small size GigE camera with the dimension of only 29X29x29mm still keep the smallest size among other similar products in the world.

Company vision: continuous innovation, quality products and services, work along with machine vision counterparts, to meet the coming of Internet + .

JVS series GigE industrial camera

General parameters

Camera	
Pixel data formats	Mono 8 ¹⁾ , Mono16 ¹⁾ , Bayer8 ²⁾ , Bayer16 ²⁾ ,
Data output type	Fast Ethernet (1000Mbit/s)
Synchronization	Via external trigger signal, via the Ethernet connection, or free run
Internal process function	External trigger dejitter, hot point correction, lookup table
Mechanical / electrical specification	
Outside dimension	29mm x 29mm x 29mm
Working temperature	0° - 50°
Lens mount	C mount
flash trigger Synchronization	1 opto-isolated
External trigger Synchronization	1 opto-isolated
Power supply	12VDC(±10%)6-pin socket
Weight	~42g
software	
Driver	Joview SDK or compatible third-party GigE Vision Standard software
Operating system	Windows XP, Win 7, 32bit 64bit
Compatibility	GigE Vision, GenICam, GenTL

Feature

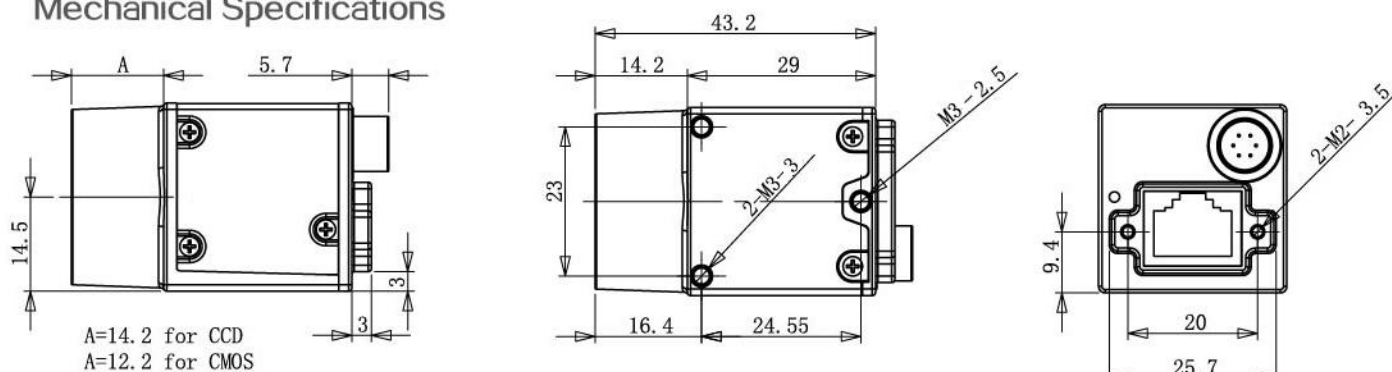
- Resolution: form VGA to 14M pixels
- Small size;
29mm × 29mm × 29mm
- Low power consumption:
1.6~2.5W
- Fast Ethernet (1000Mbit/s) GigE Vision

Application field

Manufacturing quality control
Semiconductor and Component Testing
Food and beverages detection
Pharmaceutical Industry
Intelligent Transportation Systems
packaging industry
microscope image
Medical and life sciences

	Type	Class	resolution	Sensor size	Pixel size	Frame rate	Bit depth	Sharer type	Mono/color	Power consumption
NEW	JVS-G1-0002SM/C	CMOS	640x480	1/3"	6.00	100.0	10	Global	Mono/color	1.7w
	JVS-G1-0101SM/C	CMOS	1280x960	1/3"	3.75	60.0	12	Global	Mono/color	1.7w
	JVS-G1-0102DM/C	CCD	1280x960	1/3"	3.75	39.8	12	Global	Mono/color	1.7w
	JVS-G1-0202DM/C	CCD	1600x1200	1/1.8"	4.40	39.7	14	Global	Mono/color	2.5w
	JVS-G1-0203DM/C	CCD	1600x1200	1/1.8"	4.40	19.9	14	Global	Mono/color	2.4w
	JVS-G1-0501SM/C	CMOS	2592x1944	1/2.5"	2.20	14.8	12	Rolling	Mono/color	1.6w
	JVS-G1-0502DM/C	CCD	2456x2058	2/3"	3.45	14.9	14	Global	Mono/color	2.5w
NEW	JVS-G1-1401SC	CMOS	4384x3288	1/2.3"	1.40	7.0	8	Rolling	color	2.4w

Mechanical Specifications



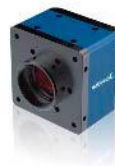
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JVS series

Compact in type Exquisite in core



Superior Imaging

High resolution, large pixels, fast frame rate

JVM series GigE industrial camera

General parameters

Camera	
Pixel data formats	Mono8 ¹⁾ , Bayer8 ²⁾
Data output type	Fast Ethernet(1000Mbit/s)
Synchronization	Via external trigger signal, via the Ethernet connection, or free run
Internal process function	External trigger dejitter, hot point correction, lookup table
Mechanical / electrical specification	
Outside dimension	50mm x 50mm x 35mm
Working temperature	0° - 50°
Lens mount	C mount
flash trigger Synchronization	1 opto-isolated
External trigger Synchronization	1 opto-isolated
Power supply	12VDC(±10%)6-pin socket
Weight	~145g
software	
Driver	Joview SDK or compatible third-party GigE Vision Standard software
Operating system	Windows XP, Win 7, 32bit 64bit
Compatibility	GigE Vision, GenICam, GenTL

1) Black/white type only 2) Color type only

Feature

- High Resolution
- Large pixel size
- Fast frame rate
- External trigger and flash trigger synchronization

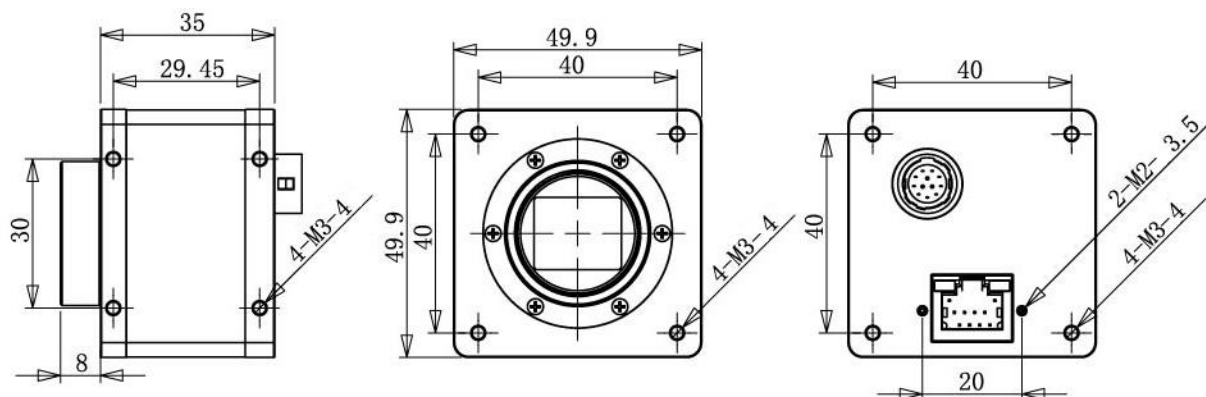
Application field

Manufacturing quality control
Semiconductor and Component Testing
Food and beverages detection
Pharmaceutical Industry
Intelligent Transportation Systems
packaging industry
microscope image
Medical and life sciences

Camera type table

	Type	Class	resolution	Sensor size	Pixel size	Frame rate	Bit depth	Sharer type	Mono/color	Power consumption
NEW	JVM-G1-0801DM/C	CCD	3312x2496	1"	3.88	14.0	8	Global	Mono/color	4.5w
	JVM-G1-1001SC	CMOS	3984x2712	1"	3.40	10.0	8	Rolling	Mono/color	3.5w
NEW	JVM-G1-1201SM/C	CMOS	4088x3072	1"	3.10	9.2	8	Rolling	Mono/color	2.0w
	JVM-G1-1401SC	CMOS	4620x3084	1"	2.86	7.8	8	Rolling	Mono/color	4.0w

Mechanical Specifications



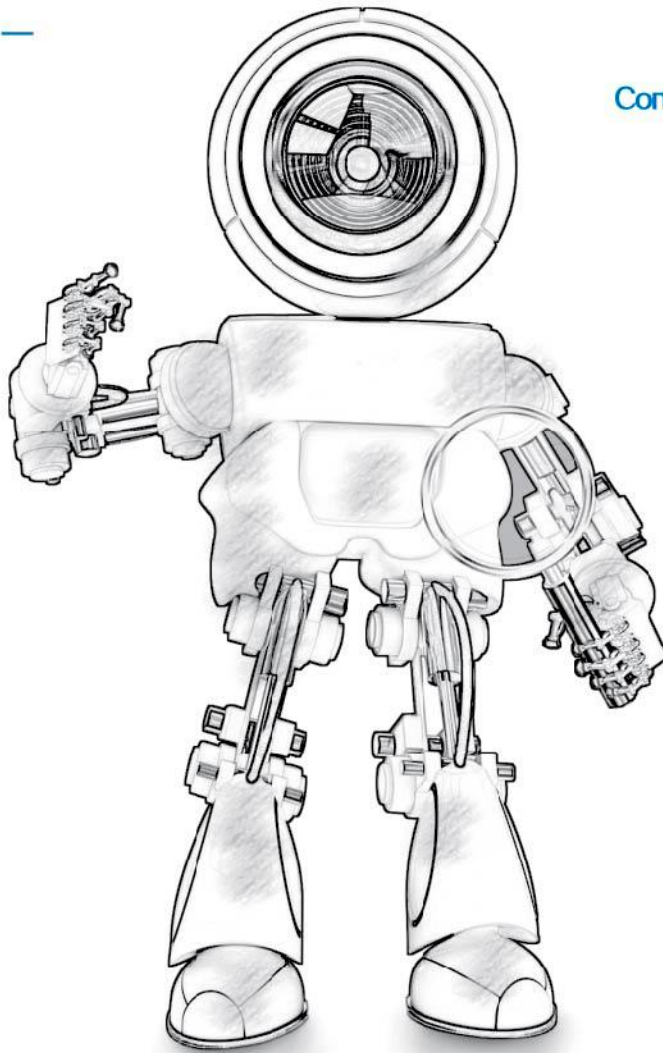
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The subtle check

The resolution of CCD is up to 29M pixels

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General parameters

Camera	
Pixel data formats	Mono8 ¹⁾ , Bayer8 ²⁾
Data output type	Fast Ethernet(1000Mbit/s)
Synchronization	Via external trigger signal, via the Ethernet connection, or free run
Internal process function	External trigger dejitter, hot point correction, lookup table
Mechanical / electrical specification	
Outside dimension	141mm x 60mm x 60mm
Working temperature	0° - 50°
Lens mount	F mount
flash trigger Synchronization	1 opto-isolated
External trigger Synchronization	1 opto-isolated
Power supply	12VDC(±10%)6-pin socket
Weight	~470g
software	
Driver	Joview SDK or other compatible third-party GigE Vision Standard software
Operating system	Windows XP, Win 7, 32bit 64bit
Compatibility	GigE Vision, GenICam, GenTL

1) Black/white type only 2) Color type only

Feature

- High Resolution;
16M pixels and 29Mpixels
- Large pixel size
- Fast Ethernet(1000Mbit/s) GigE Vision
- Full frame CCD

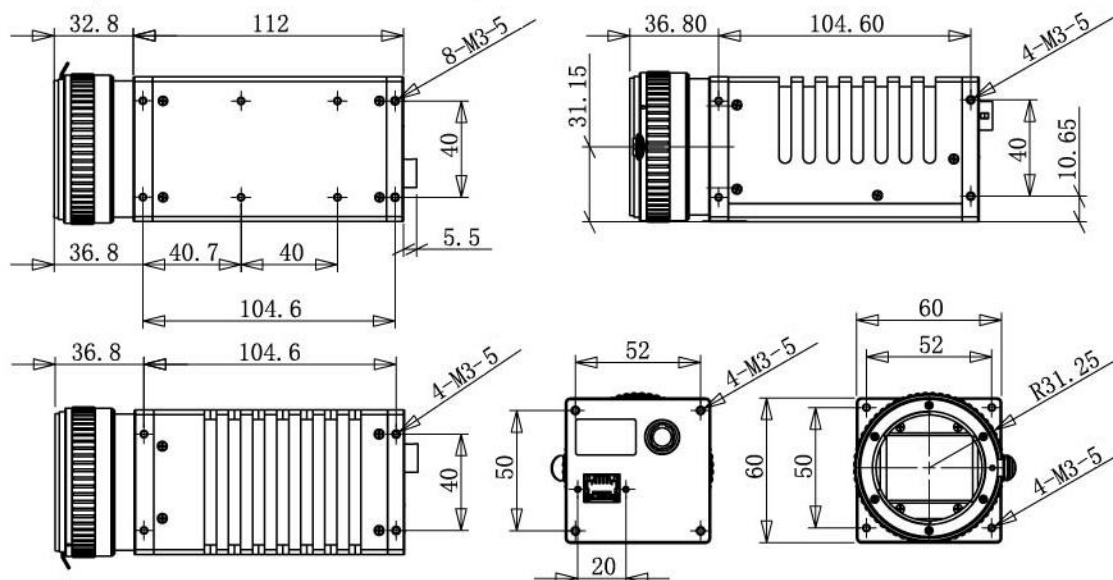
Application field

Manufacturing quality control
 LCD flat panel detector
 A large area of precision dimensional measurement
 Semiconductor and Component Testing
 Scientific research
 Medical and life sciences

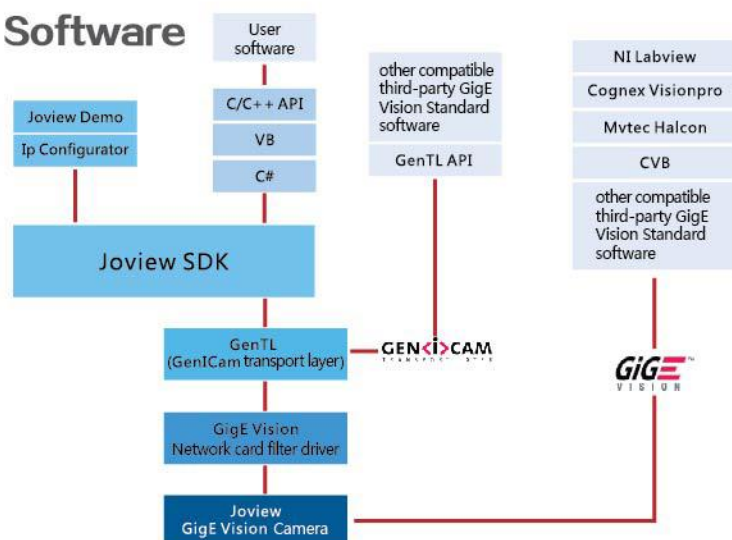
Camera type table

Type	Class	resolution	Sensor size	Pixel size	Frame rate	Bit depth	Sharer type	Mono/color	Power consumption
JVL-G1-1601DC/M	CCD	4896x3264	APS-H	5.50	6.5	8	Global	Mono/color	6w
JVL-G1-1602DC/M	CCD	4896x3264	APS-H	5.50	5.1	8	Global	Mono/color	6w
JVL-G1-2901DC/M	CCD	6576x4384	35mm	5.50	3.9	8	Global	Mono/color	6w
JVL-G1-2902DC/M	CCD	6576x4384	35mm	5.50	2.5	8	Global	Mono/color	6w

Mechanical Specifications



Software



Joview Software Development Kit

Can be applied on Xp, Win7, 32Bit/64Bit Operating system. The SDK includes NIC filter driver, GenTL dynamic link library, and sample programs for a variety of development languages. JoviewDemo which can be used to control camera and acquire image is a part of the SDK.

For Joview series camera follows the standard of GigE Vision, it can link the third-party machine vision software which follow Gige Vision standard also seamlessly, such as Labview, Visionpro, Halcon, CVB and so on. Without changing the original program and learns new instructions, one can start using Joview series camera rapidly.

As a new comer in the industrial camera manufacturers family, Joview has its own unique technical advantages, we look it particular importance of the stability of the camera and the camera's image quality. In order to ensure the technical indicators we have adopted EMVA1288 standard which is a generally recognized standards in machine vision industry to measure our camera.

Quality assurance to provide high reliability

JOVIEW closely follows the ISO9001 quality management system for product quality control. Strict quality control process make camera performance excellent possible. In camera production process, we use scientific methods and specialized testing equipment to ensure product quality. The benefit is not only improves productivity, but also reduces the cost, while the camera has better image quality and more stable performance. Each camera experiences aging test before come to market.



The definition of high-quality image quality and testing

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imRN Asia Co.,Ltd

31/1 moo2, Soi.Thawiwatthana-Kanchanaphisek 20
Thawi-watthana, Bangkok, Thailand 10170
e: sale@imRNasia.com t: 087-803 1661
www.imRNasia.com

Type definition:

