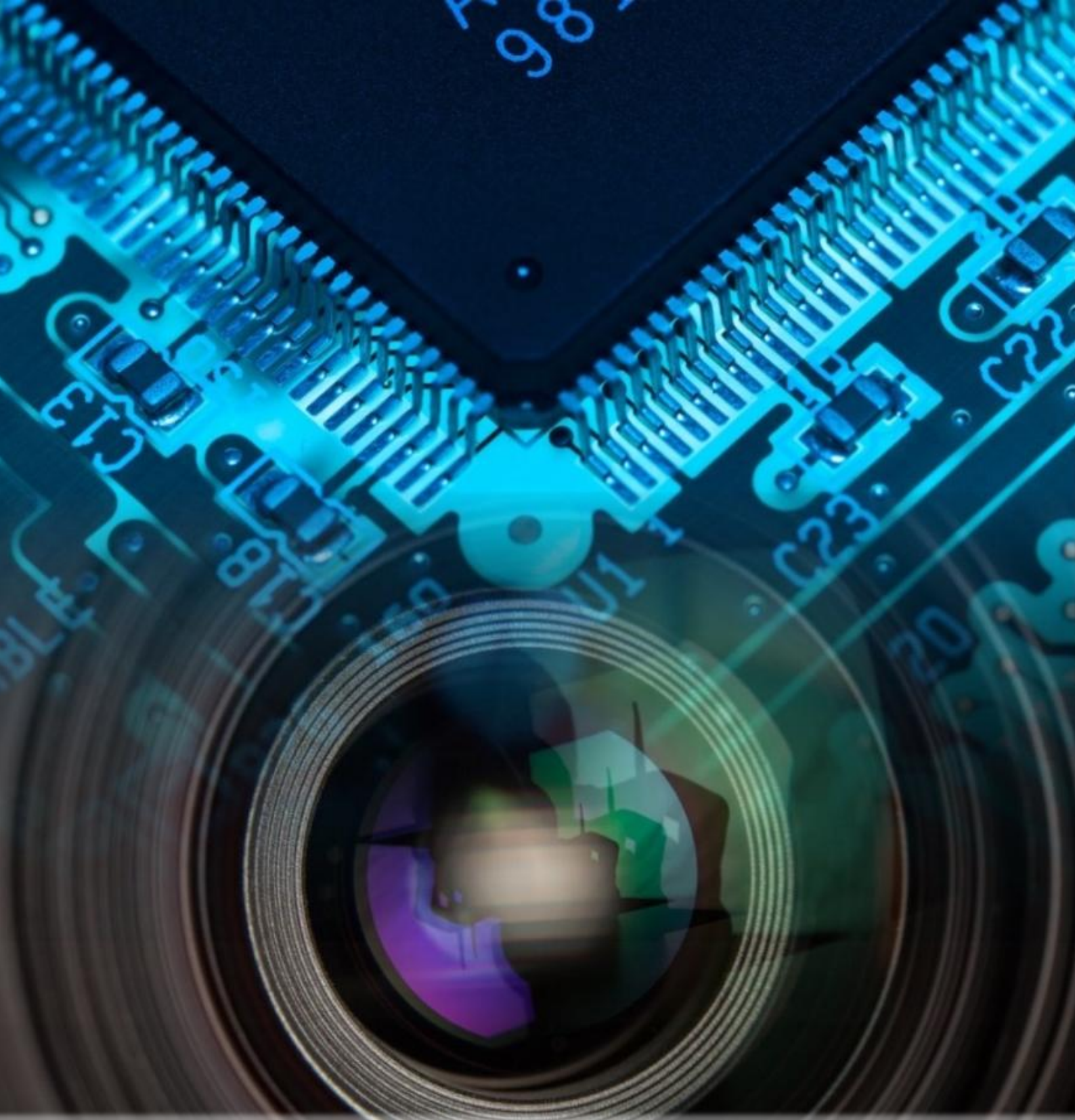




Shikino
Shikino High-Tech CO., LTD.

Company Profile

Corporate Name	Shikino High-Tech Co., Ltd.
Corporate Establishment	January 29, 1975
Start of Current Business	July 1986
President	Shinichi Takahashi
Head Office	829 Kichijima, Uozu-shi, TOYAMA JAPAN
TEL.	+81-765-22-3477
Number of Employees	435 (As of March 31, 2026)

Location

Headquarters / Uozu Factory

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TOYAMA
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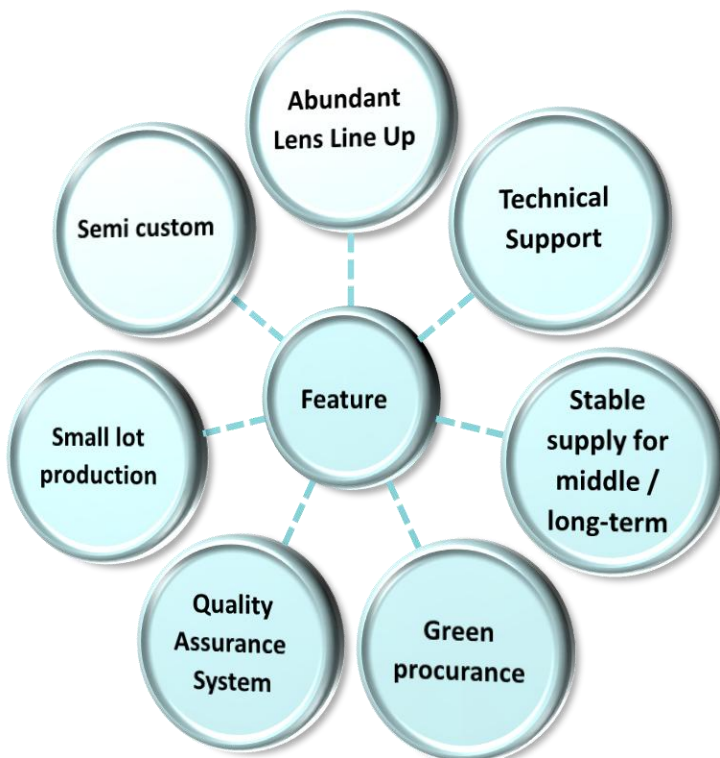


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TEL. +81-3-5777-3340
FAX. +81-3-5777-3341



Made in JAPAN

MIPI Output Camera

KBCR-S08MM

1.3M pixels



Image Sensor	1/3.6-inch Color Sensor (Rolling shutter)
Total number of [pixels]	1344 x 1020
Imaging area [mm]	4.08 x 3.10
Output signal format	YUV 8bit
Image output interface	MIPI CSI-2 (2 Lane)
Frame rate [fps]	30
External connection	15pin FFC connector
Function	HDR, Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions (Provides driver software for Linux)
Power supply voltage [V] / Power consumption [W]	3.3 / 0.8 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	32 x 32

KBCR-S51MM

1.5M pixels



Image Sensor	1/4.5-inch Monochrome Sensor (Global shutter)
Total number of [pixels]	1440 x 1080
Imaging area [mm]	3.168 x 2.376
Output signal format	Monochrome Raw 10bit/8bit
Image output interface	MIPI CSI-2 (1-4 Lane)
Frame rate [fps]	MAX 120
External connection	26pin FFC connector (Standard), 22pin conversion board available (Optional)
Function	Auto Exposure Control, Auto Gain Control, External trigger, LEDOUT
Power supply voltage [V] / Power consumption [W]	3.3 V / 0.6 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	29 x 29

Analog Output Camera

KBCR-S02NT

0.3M pixels



Image Sensor	1/4-inch Color Sensor (Rolling shutter)
Total number of [pixels]	640 x 480
Imaging area [mm]	3.584 x 2.688
Output signal format	NTSC composite
Frame rate [fps]	29.97
External connection	7pin connector
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance
Power supply voltage [V] / Power consumption [W]	5 to 12 / 0.5 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	32 x 32

USB Camera

KBCR-S05TU

2M pixels



Image Sensor	1/2.92-inch Color Sensor (Rolling shutter)
Total number of [pixels]	1920 x 1080 / 1280 x 720
Imaging area [mm]	5.376 x 3.024
Output signal format	USB2.0 (YUV/MJPEG)
Frame rate [fps]	30 (Max)
External connection	5pin connector
Function	HDR, Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions(software control)
Power supply voltage [V] / Power consumption [W]	5.0 / T.B.D.
Operation temp. [°C] / Storage temp. [°C]	-25 to +70 / -25 to +70 (without Optics)
PCB Dimension [mm]	29 x 29

KBCR-S03TU

2M pixels



Image Sensor	1/2.8-inch Color Sensor (Rolling shutter)
Total number of [pixels]	1920 x 1080 / 1280 x 960 / 1280 x 720
Imaging area [mm]	5.568 x 3.132
Output signal format	USB2.0 (YUV/MJPEG)
Frame rate [fps]	5 (YUV) / 30 (MJPEG)
External connection	5pin connector
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions (software control)
Power supply voltage [V] / Power consumption [W]	5.0 / 1.0 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	15 x 40

KBCR-S03MU

1.2M pixels



Image Sensor	1/4-inch Color Sensor (Rolling shutter)
Total number of [pixels]	1280 x 960 / 640 x 480
Imaging area [mm]	3.84 x 2.88
Output signal format	USB2.0 (YUV/MJPEG)
Frame rate [fps]	7.5 (YUV) / 30 (MJPEG)
External connection	5pin connector
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions (software control)
Power supply voltage [V] / Power consumption [W]	5.0 / 1.00 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	15 x 40

KBCR-S07VUE

0.3M pixels



Image Sensor	1/4-inch Color Sensor (Rolling shutter)
Total number of [pixels]	640 x 480
Imaging area [mm]	3.584 x 2.688
Output signal format	USB2.0 (YUV/MJPEG)
Frame rate [fps]	30
External connection	5pin connector
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions (software control)
Power supply voltage [V] / Power consumption [W]	5.0 / 0.75 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	15 x 40

USB Camera

KBCR-S03TUA

2M pixels



Image Sensor	1/2.8-inch Color Sensor (Rolling shutter)
Total number of [pixels]	1920 x 1080 / 1280 x 960 / 1280 x 720
Imaging area [mm]	5.568 x 3.132
Output signal format	USB2.0 (YUV/MJPEG)
Frame rate [fps]	5 (YUV) / 30 (MJPEG)
External connection	5pin connector
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions (software control), ASS (Auto Sensing Support)
Power supply voltage [V] / Power consumption [W]	5.0 / 1.0 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	15 x 40

ASS (Auto Sensing Support)

- Our proprietary camera exposure control technology.
- Independent exposure settings are possible for even and odd frames.
- Compared to the HDR function, it enables two types of exposure control according to the user's image processing, contributing to improving the user's image processing accuracy.

Digital Output Camera

KBCR-S01TL

2M pixels



Image Sensor	1/2.8-inch Color Sensor (Rolling shutter)
Total number of [pixels]	1920 x 1080 / 1280 x 720
Imaging area [mm]	5.568 x 3.132
Output signal format	Raw 10bit (Low voltage LVDS 150mVp-p:DDR-4ch)
Frame rate [fps]	60 (1920 × 1080) / 120 (1280 × 720)
External connection	30pin FFC connector
Function	Wide dynamic range
Power supply voltage [V] / Power consumption [W]	3.3, 1.8 / 0.5 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	32 x 32

KBCR-S07VG

0.3M pixels



Image Sensor	1/4-inch Color Sensor (Rolling shutter)
Total number of [pixels]	640 x 480
Imaging area [mm]	3.584 x 2.688
Output signal format	YUV422 8bit (8bit Parallel Output)
Frame rate [fps]	30
External connection	24pin FFC connector
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance, Various image adjustment functions by I2C
Power supply voltage [V] / Power consumption [W]	3.3 / 0.44 (MAX)
Operation temp. [°C] / Storage temp. [°C]	-20 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	24 x 27

LAN Camera / PoE Camera

KBCR-iC11VG-N1L/P

0.3M pixels



Image Sensor	1/4-inch Color sensor (Rolling shutter)
Total number of [pixels]	640 x 480
Imaging area [mm]	3.58 x 2.69
Power feeding	Via USB or Via PoE
External connection	RJ45 connector
Image output interface	UDP MJPEG
Connection interface	TCP
LED illumination	Optional
Operation temp. [°C] / Storage temp. [°C]	-20 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	Camera PCB : 24 x 27 , CPU PCB : 40 x 30
Function	Auto Exposure Control, Auto White Balance, Various image adjustment functions Lens distortion correction, Viewpoint conversion, Panorama conversion

KBCR-iC21MG-N2L/P

1.2M pixels



Image Sensor	1/4-inch Color sensor (Rolling shutter)
Total number of [pixels]	1280 x 960
Imaging area [mm]	3.84 x 2.88
Power feeding	Via USB or Via PoE
External connection	RJ45 connector
Image output interface	UDP MJPEG
Connection interface	TCP
LED illumination	Standard
Operation temp. [°C] / Storage temp. [°C]	-20 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	40 x 30
Function	Auto Exposure Control, Auto White Balance, Various image adjustment functions Lens distortion correction, Viewpoint conversion, Panorama conversion

KBCR-IP11TN

2M pixels



Image Sensor	1/4-inch Color sensor (Rolling shutter)
Total number of [pixels]	1920 x 1080
Imaging area [mm]	3.84 x 2.16
Power feeding	DC24V / 12V / 5V Via 4pin External Nylon connector
External connection	8pin Nylon connector for Ethernet
Image output interface	RTSP / RTP H.264
Connection interface	HTTP (Web API)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	29 x 29
Function	Auto Exposure Control, Auto White Balance, Bitrate Control, JPEG Snapshot

KBCR-IP12TN

Planned



Image Sensor	1/2.53-inch Color sensor (Global shutter)
Total number of [pixels]	2560 x 1440
Imaging area [mm]	5.738 x 4.312
Power feeding	DC24V / 12V / 5V Via 4pin External Nylon connector
External connection	8pin Nylon connector for Ethernet
Image output interface	RTSP / RTP H.264
Connection interface	HTTP (Web API)
Operation temp. [°C] / Storage temp. [°C]	-10 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	29 x 29
Function	Auto Exposure Control, Auto White Balance, Bitrate Control, JPEG Snapshot

USB Camera with Distortion Correction

Feature

- Distortion correction functions (Lens distortion correction, Viewpoint conversion, Panorama conversion)
- Various camera settings (Exposure time, JPEG quality settings, Transmission rate adjustment, etc.)
- White LED illumination function (Requires optional substrate)

Distortion correction



Assist image processing by correcting lens distortion

Viewpoint conversion



Viewpoint conversion converts the image to one viewed directly above
Can be combined with lens correction

Panorama conversion



Fisheye image to panorama conversion
Partial cropping is also available

KBCR-iC11VG-N1U

0.3M pixels



Image Sensor	1/4-inch Color sensor (Rolling shutter)
Total number of [pixels]	640 x 480
Imaging area [mm]	3.58 x 2.69
Power feeding	Via USB
Image output interface	UVC (USB)
Connection interface	CDC (USB)
LED illumination	Optional
Operation temp. [°C] / Storage temp. [°C]	-20 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	Camera PCB : 24 x 27 , CPU PCB : 40 x 30
Function	Lens distortion correction, Viewpoint conversion, Panorama conversion

KBCR-iC21MG-N2U

1.2M pixels



Image Sensor	1/4-inch Color sensor (Rolling shutter)
Total number of [pixels]	1280 x 960
Imaging area [mm]	3.84 x 2.88
Power feeding	Via USB / Via External CN
Image output interface	UVC (USB)
Connection interface	CDC (USB) / RS-232C (General-purpose connector)
LED illumination	Standard
Operation temp. [°C] / Storage temp. [°C]	-20 to +60 / -20 to +70 (without Optics)
PCB Dimension [mm]	40 x 30
Function	Lens distortion correction, Viewpoint conversion, Panorama conversion

KBCR-iCLSDK-A/B is a development kit that enables software development on Intelligent Camera Lite. We provide a base development environment, and customers can use the sample code as a reference. Since customers can concentrate on application development, development costs can be reduced.

Feature

- Customers can embed their camera apps.
- Camera driver and distortion correction API provided.
- Real-time image processing result display via UVC/UDP.
- Write-in user apps for shipping (in mass production).
- Includes Windows sample programs for image display & communication.

Specifications

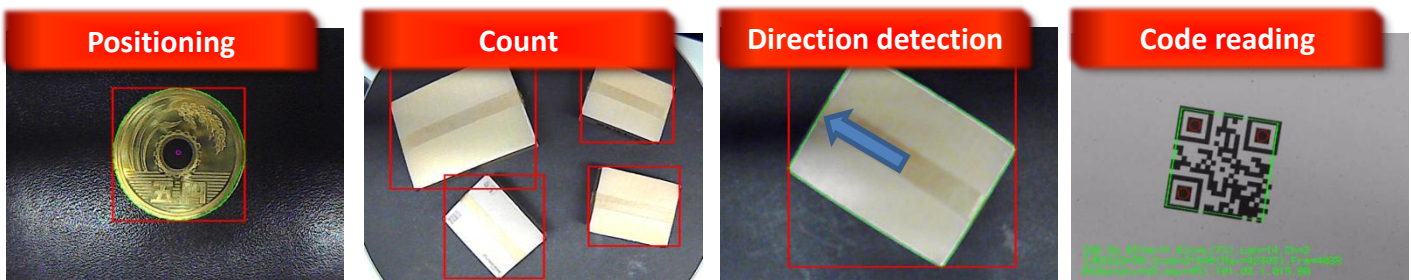
Item	KBCR-iCLSDK-A (0.3MP)	KBCR-iCLSDK-B (1.2MP)
Camera	Resolution : 640 x 480, Imaging area : 3.58 x 2.69mm Frame Rate : Max60fps	Resolution : 1280x960, Imaging area : 3.84 x 2.88mm Frame Rate : Max30fps
CPU	Processor : Renesas RZ/A1H Cortex-A9 400MHz (CPU Integrated SRAM: 10 MB), ROM : SPI-Flash 8MB, EEPROM : 32KB	
Interface	USB / LAN(*) / UART / GPIO / I2C / JTAG	USB / LAN(*) / RS-232C(*) / UART / GPIO / I2C / JTAG
Optional Board	Ethernet Board / PoE Board / LED Board	Ethernet Board / PoE Board / 32MB SDRAM Board

* Optional board required.

Software Specifications

Item	Description
Development environment	IDE: Renesas e2studio Version 6.3
	Compiler: Renesas GCC
	ICE: Segger J-Link J-Link 9-pin Cortex-M Adapter also need
Library	IO Control library: GPIO / I2C / UART
	Camera Control library: Exposure and Gain control, Sharpness, Brightness, Saturation, etc.
	Image IO Control library: Capture control, Distortion correction IP control, JPEG IP control, UVC / UDP output control
	Image Process library: Image Processing (Binarization, Labeling, etc.) Drawing Functions (Text, Lines, Rectangles, Circles)
Other	Windows Communication tool: USB (CDC / UVC) and LAN (TCP / UDP) communication sample programs in source code (C#)

Applications

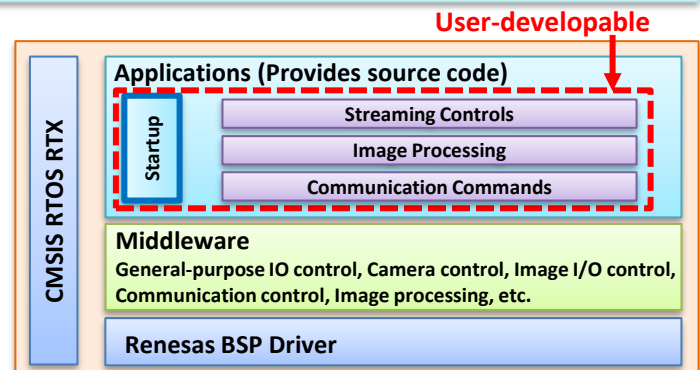


Bundled item

Camera board / CPU board / Lens (Several types) / Optional boards (LAN, etc.) /
Debugging board / Screws and Spacers / Connection cables /
CD-ROM (Documents, Libraries, Sample codes, Windows communication tools)

*Software license agreement is required when purchasing the development kit.

Code reading library is optional



Intelligent Camera Standard

This camera unit integrates a 1.2M pixels camera module and a processor for image processing. It enables the embedded development of various image-processing software that operates on the unit.

Feature

- Two-panel board configuration: camera board and CPU board
- Equipped with AI accelerator, video codec engine, and 3D graphics engine
- Customizable expansion board to support various interfaces
- Adaptable to a wide range of image processing solutions through software modification and customization

RENESAS

PARTNER PROGRAM

Hardware specification

Camera

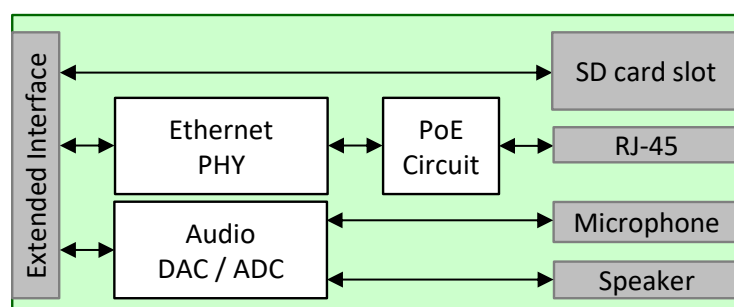
Item	Description
Image Sensor	1/4-inch CMOS Color sensor
Total number of [pixels]	1280 x 960 (MAX)
Imaging area [mm]	3.84 x 2.88
Image Format	YUV Color
Shutter	Rolling shutter
Function	Auto Exposure Control, Auto Gain Control, Auto White Balance, etc.



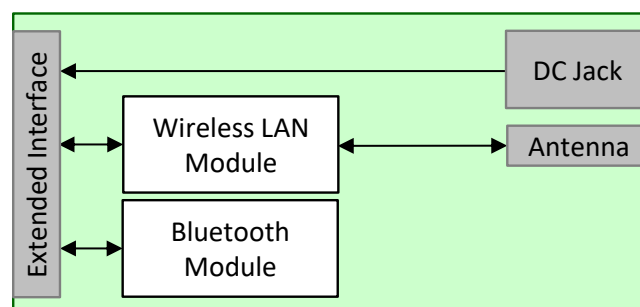
Processor, Interface

Item	Description
Processor	RZ/V2L (Renesas Electronics Corp.) ARM Cortex-A55 (1.2GHz Dual) / ARM Cortex-M33 (200MHz)
OS	Linux
ROM / Storage	SPI-NOR Flash Memory (16Mbyte) / eMMC (16Gbyte)
RAM	DDR4 SDRAM (2Gbyte)
Interface	UART, USB2.0 (OTG)
Extended Interface (Option)	USB (HOST), UART, SPI, I2S, SD, GPIO, RMII, RGMII
Other	AI Accelerator / Video Codec Engine (H.264) / 3D Graphics Engine (Arm Mali-G31)
Dimension [mm]	W: 50 x D: 50 x H: 15.2 (without Optics)

Expansion board custom examples



Network Camera System
(with recording function)



Wireless Communication System

Reader module for reading various barcodes and QR codes.

Supports reading of QR displays on smartphones.

Ideal for integration into industrial equipment such as payment terminals, ATMs, vending machines, ticket vending machines, etc.

Feature

- Supports large depth-of-field lenses.
- Narrow-angle to wide-angle lens selectable (for various installation conditions, space-saving).
- Real-time image output (easy installation position adjustment).
- Sensor settings can be optimized to suit the installation environment.



Example of reading in backlit condition



0.3M Pixels Model w / USB IF, White LED

Code recognition specification

Item	0.3M Pixels Model	1.2M Pixels Model
QR code	QR Code (Up to 4 codes can be read at the same time)	QR Code, DataMatrix (optional) (Up to 8 codes can be read at the same time)
Barcode	EAN / UPC, ITF, NW7, Code39, Code128 (Supports check digit setting)	
Operating Mode	Permanent read mode, Trigger mode, Moving object detection mode	
Startup time / Reading time	Can be activated within 1 second / Read within 0.1 second	

Model number

Resolution	Model number	Interface / Power
0.3M Pixels	KBCR-CR31U	USB / via USB
	KBCR-CR31UW	USB / via USB with White LED
	KBCR-CR31L	LAN / via USB
	KBCR-CR31P	PoE / via PoE
	KBCR-CR31PW	PoE / via PoE with White LED

Resolution	Model number	Interface / Power
1.2M Pixels	KBCR-CR43U	USB / via USB
	KBCR-CR43L	LAN / via USB
	KBCR-CR43P	PoE / via PoE
	KBCR-CR43S	RS-232C / via USB
	KBCR-CR43SP	RS-232C / via power supply terminal

※QR Code is a registered trademark of DENSO WAVE INCORPORATED.

Remote Care Monitoring System “C-Aid”

(Millimeter-Wave Radar + Camera)

Only for Japan Market

Feature

- Integrated Sensor and Camera Design for **Lower Cost and Simplified Installation**
- **Contact-Free Monitoring** of Heart Rate and Breathing
- **Fast Bed Exit Detection (as Fast as 2 Seconds)**
- Real-Time Video Monitoring with Automatic Event Recording



Automatically records video
before and after bed exit events.

- Designed and Manufactured in Japan



*Privacy Protection with Video Blur Function

Partner Solutions

e-con Systems Camera Products

Now Available in Japan through Shikino High-Tech (since June 2025)

Founded in 2003, e-con Systems is a leading camera solutions provider based in India.

We deliver innovative camera solutions for a wide range of applications, including robotics, smart agriculture, medical devices, and life science industries.

Feature

- NVIDIA Elite Partner
- Camera-Centric Solution Provider
- High-Resolution Cameras up to 20 MP
- USB 3.0, GigE, GMSL, and Other Interface Options
- IP67-Rated Enclosed Camera Models Available



e-con Systems®

Think Vision. Think e-con.

Only for Japan Market

For inquiries from outside Japan,
please contact e-con Systems directly.



List of Lenses

The angle of view in the table is a typical value of the lens.

The angle of view, etc. will vary depending on the combination of camera and lens.

Model number	Sensor Size	Focus f [mm]	F/No.	Angle of view [°] *1			TV Distortion	Optical length [mm] *2	Construction	Mount [mm]	Lens Holder
				Vertical	Horizontal	Diagonal					
LP4801A	"1/4	4.80	2.6	43	33	53	<+1%	11.0	2P	M12 × P0.5	標準 ^{注3}
LP2201B		2.20	2.3	99	75	117	-11%	15.1	2P		
LG1901A		1.90	2.0	121	89	154	-19%	19.4	5G		
LG1701A		1.68	2.5	128	94	170	-22%	18.3	6G		
LG1601A		1.58	2.2	145	107	>173	<-24%	18.3	6G		
LH1201A		1.19	2.4	122	102	137	-4%	13.9	2P2G		
LP1102A		1.05	2.0	193	142	206	±5%	11.8	4P1G		
LG6001A	"1/3	6.00	2.0	40	30	49	-1%	19.3	4G	M12 × P0.5	標準 ^{注3}
LG3801A		3.80	2.3	74	58	98	-7%	21.6	4G		
LG3801B		3.80	8.0	74	58	98	-7%	21.6	4G		
LHA001A	"1/2.7	10.00	3.0	32	18	36	<+1%	13.6	2G2P		
LG6002A		6.00	2.0	56	31	64	-5%	21.2	6G		
LH2801A		2.80	2.8	94	60	105	-2%	13.5	2G3P		
LH2601A		2.60	4.0	97	64	105	-1%	22.0	4G2P		
LH2101A		2.09	2.0	133	81	146	-18%	18.1	3P3G		

*1 The angle of view in the table indicates the angle of view for the corresponding sensor size.

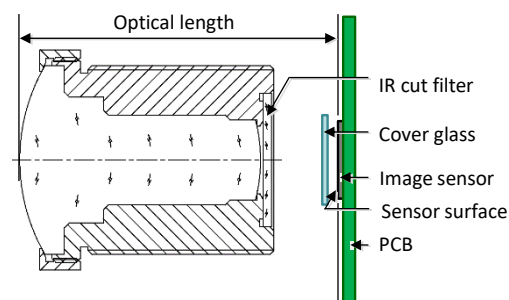
If a smaller sensor size is used, the angle of view will be narrower.

*2 Refer to the figure on the right for the total optical length.

*3 A suitable lens holder sometimes differs depending on the lens. Please contact us.

*4 Necessary of custom development of lens holder.

IR: Please contact us because some items are not available for IR.



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