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## **New 1.5 Megapixel MIPI Output Camera Module ~Sample Sales Started in October 2024~**

Shikino would like to announce the launch of the new 1.5 Megapixel monochrome global shutter industrial-use MIPI camera module (model number: KBCR-S51MM).

This camera is highly effective in capturing high-speed moving objects and also has high near-infrared (NIR) sensitivity. Therefore, this camera can perform well in image capture when combined with an infrared LED.

Shikino will start selling samples of this product in October 2024. The launch of mass-produced products is scheduled for January 2025.

### [Product Features]

- **Global Shutter & High Frame Rate (120fps)**  
Effective for sensing such as positioning and object recognition of moving objects at high speed.
- **NIR High Sensitivity (Relative QE=60% @850nm)**  
Combined with IR LED illumination, high-sensitivity images can be obtained in the near infrared range.  
Please do not hesitate to contact us regarding the customization of optical filters such as visible light cutting as well.
- **External trigger & LEDOUT terminal supported**  
Both synchronous shooting with the system and dynamic shooting of multiple cameras are possible.  
And it can shoot in sync with an external LED connected to LEDOUT connector as well.
- **I2C addressing can be switched externally**  
It can also be used for two simultaneous uses, such as a stereo cameras.
- **Raspberry Pi 5 Converter Board & Sample Driver**  
We have prepared both a dedicated conversion board (22-pin conversion) connected to Raspberry Pi 5 and sample driver software.  
※Raspberry Pi is a registered trademark of Raspberry Pi Foundation.

### [Main target applications]

- Semiconductor-related equipment in general
- Medical equipment
- Inspection and measurement equipment
- Drone

[Specifications]

Item	KBCR-S51MM	Remarks
Resolution	Max. 1440×1080 pixels	Monochrome
Shutter mode	Global shutter	
Output Format	RAW 10bit	
Interface	MIPI CSI-2	1~4 Lane
Image adjustment function	AEC/AGC	
I2C address	Can be switched from outside	2 types available
Connector	Connect the 26-pin FFC connector	As an option with 3-pin connector
Lens	Select from our various line-up of lenses	
Operating temperature range	-10 ~ +60°C	
Board dimensions	29 × 29mm	



Contact:

Product Inquiries

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