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To Whom It May Concern,

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1.2 Megapixel Intelligent Camera Module

— Launch of AI-Compatible Model Sales —

Shikino is launching sales of a new camera product, the 1.2 Megapixel Intelligent Camera Module (Model: KBCR-iC41MG), ideal for implementing vision AI applications at the edge.

The intelligent camera is Shikino's new embedded camera module that is equipped with a processor within the camera body, enabling the camera itself to perform advanced sensing tasks such as detection and recognition on captured images.

This product integrates the camera and Renesas Electronics Corporation's high-performance processor compatible with vision AI into a single module, featuring external expandability such as LAN, USB, storage, and audio functions.

Vision AI functions, including object detection and recognition, can be utilized in various fields such as industrial equipment, office and retail devices, home appliances, and service robots. It supports device drivers that control peripheral functions and facilitates a smooth transition to mass production, significantly reducing the burden on customers during the initial development phase.

"We are pleased with the launch of Shikino High-Tech's intelligent camera module equipped with Renesas's RZ/V2L. The integrated module of the camera and RZ/V2L offers the benefit of reducing the initial development load for customers, and we are confident that the use of embedded AI will expand to more fields such as FA equipment, drones, and medical and nursing care devices." said
Ivo Marocco, VP of Strategic Initiatives and UX Group Solutions Team at Renesas Electronics Corporation

【Product features】

- 1.2 Megapixel CMOS Color Sensor Rolling Shutter (1280 × 960 @ 30fps max)
- Equipped with AI Accelerator (Renesas RZ/V2L DRP-AI)
- A wide range of standard lenses are available for various scenes
*Shikino can also propose additional lenses according to the customer's optical performance requirements. Please consult individually.
- Operating Temp. range -20°C ~ +60°C

【Main Application】

- Various Edge AI Devices ■ FA Equipment ■ Drones
- Medical and Nursing Care Devices

The start of sales for mass-produced products is scheduled for September 2025.
As with Shikino's other products, they strive to provide technical support to customers and ensure long-term stable supply of products.

【List of Specifications】

Item	KBCR-iC41MG	Note
Resolution	Maximum 1280×960 pixels	CMOS Color
shutter type	Rolling Shutter	
output format	YUV	
Standard I/F	UART, USB2.0(OTG), GPIO	
Expansion I/F	USB2.0(HOST), UART, SPI, I2C, I2S, SD, GPIO, RGMII	
processor	Equipped with GPU Core and H.264 Codec	
Storage	eMMC	16Gbyte
Operating temperature range [°C]	-20 to +60	
Outer dimension [mm]	(W) 50 × (D) 50 × (H) 15.2	*1

*1: Lenses and lens holders are selectable according to optical performance requirements.

Not included in the above outer dimensions.



URL : https://www.shikino.co.jp/eng/products/product-KBCR-iC41MG_e.php

【Contact】

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