

# RZ AI Camera EVK Summary

Preliminary version



Ver1.00A

# RZ AI Camera EVK

RZ AI camera EVK powered by Renesas RZ/V2L (Dual core Arm<sup>®</sup> Cortex<sup>®</sup>-A55@1.2Ghz for application and DRP-AI for AI inference) with AI application development environment for Mass production

## Function overview:

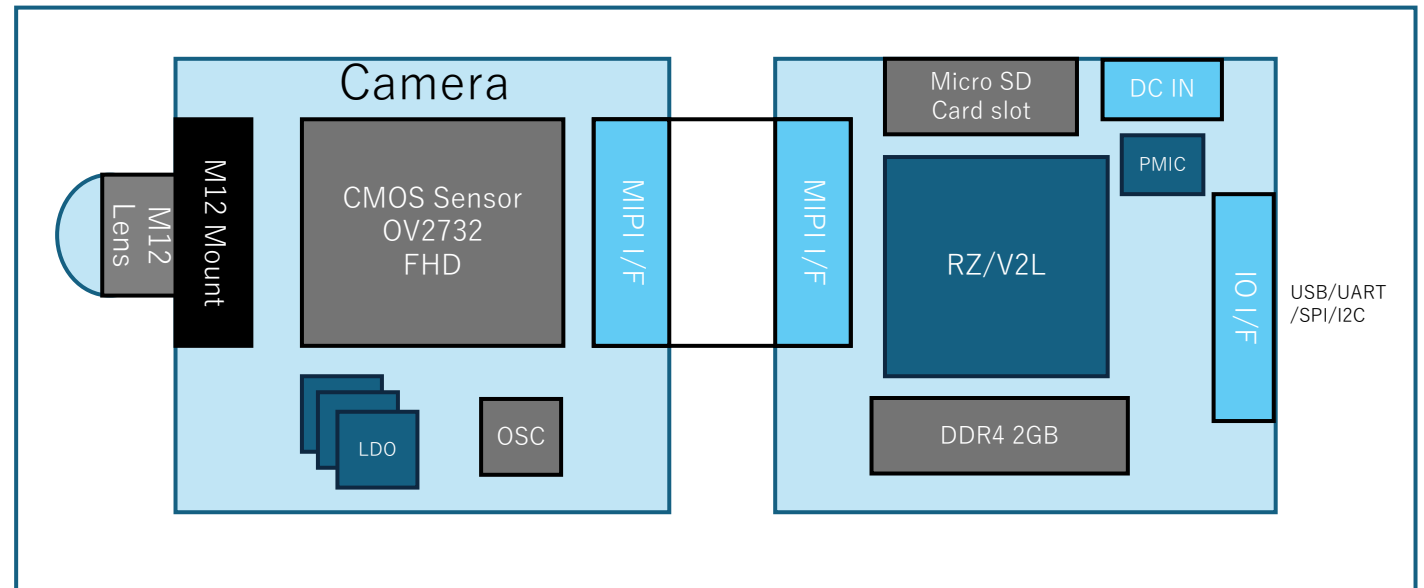
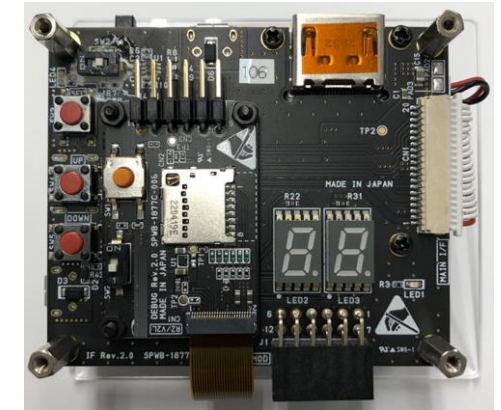
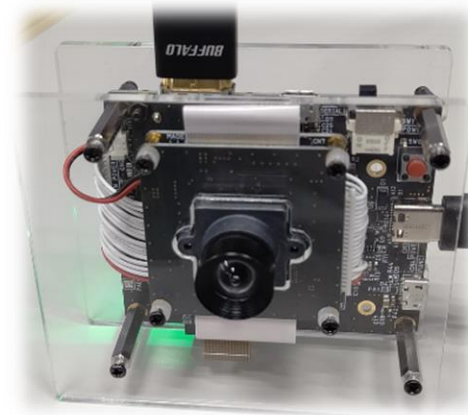
- Capture Frame rate(CMOS sensor output) : 2Mpixel, 30fps
- Monitor Output (HD): UP to 15fps (USB), Up to 30fps (MIPI DSI)
- Main processor: RZ/V2L (CPU:Cortex-A55 Dual 1.2GHz)
- AI Inference: RZ/V2L DRP-AI (Resnet50: 18fps, YOLOv3: 9fps)
- Camera signal processing on RZ/V2L
- AWB : Auto : 2000 to 8000K
- AE : Auto : Min 5lx (Sensor Shutter & Gain)

## Hardware:

- CMOS Sensor : OV2732(Omni vision) FHD(2Mpixels)
- Lens : FOV (H:83° ,V:58° ,D:94° ) (CH3617A)
- Main MPU : RZ/V2L (Renesas : R9A07G054L23GBG )
- Memory : DDR4-SDRAM 2GB (Micron)
- Flash Memory : microSD Card
- PMIC : RAA215300(Renesas)
- I/F : USB2.0, UART, I2C
- Power : 5V, 0.8A (PD: USB3.0 Type-C)
- Module size : 80 mm x 70 mm x 55 mm
- Temperature : 0 to 65°C
- Display: 7segment LED

## Software

- SET AI SDK : (OS: Linux)
- AI Applications: Head count, Animal detection, Hand gesture recognition, Human gaze detection etc.  
by Renesas AI Applications
- AI development tool: Renesas AI tool(DRP-AI TVM etc.)
- Image quality Tuning tool (IQTT) : ----



Along with your values

