eCUBE DVP

Development platform for Renesas R-Car V3HSK V2.1 with pre-integrated vision pipeline software

With eCUBE DVP, save time & effort to developers when they prototype and evaluate innovative ADAS use cases having in the loop video display and camera sensors.

USES & BENEFITS

•**A linux sample application** grabbing frames from the cameras and displaying results on display frame buffer is delivered in source code allowing developpers to simplify integration work of real time video streams with their own perception stack.

•**eCUBE DVP camera extension board schematics** are released in the case developpers want to develop their own video pipeline to test their own camera.

ADVANTAGES

•**Two popular ADAS cameras sensors** available on market pre-enabled in software with R-Car V3H ISP enabled and ISP first level tuning completed for both cameras sensors.

•**Auto Exposure and White Balance management** to adapt light conditions.

•**Product registration** enables free of charge software download for eCUBE DVP.

•**LACROIX engineering team can be contacted** for custom software release of specific or advanced ISP tuning and cameras configurations more adapted to your specific use case.
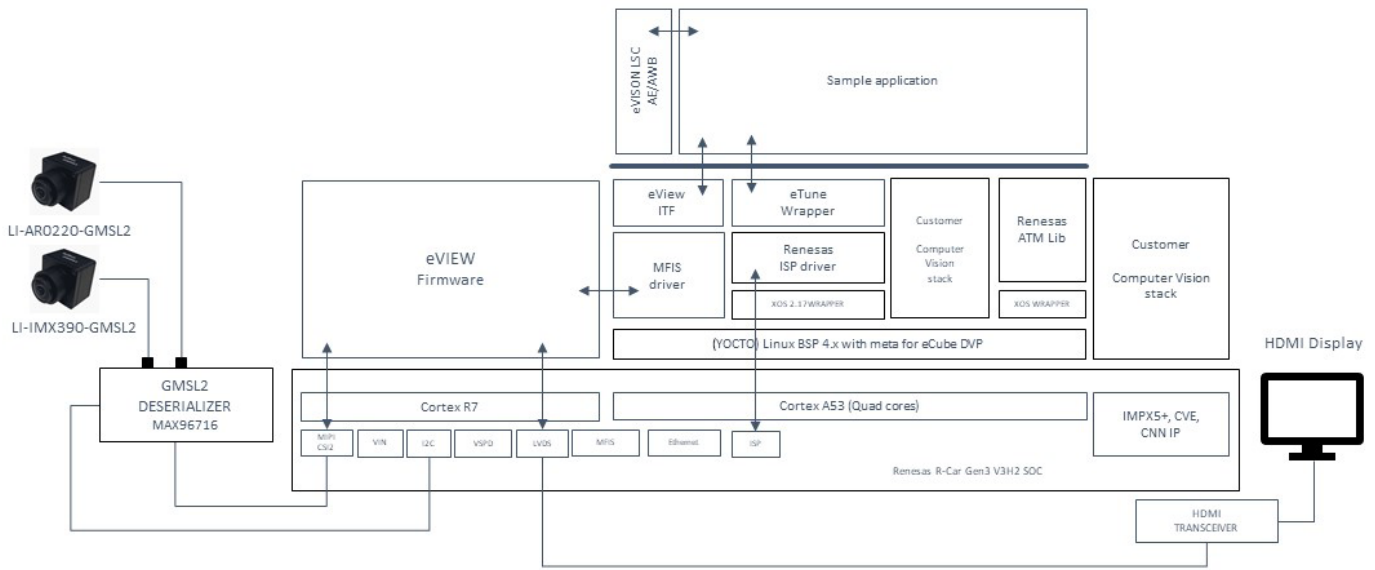

MAIN FEATURES

SONY IMX390	ONSEMI AR0220	FRAME GRABBER	R-Car V3H ISP	AE/ WB

LACROIX

Technical and functional characteristics

Functional schematic

Features	Description
LI-AR0220-GMSL2	1824*948 25/30fps, RAW12 RCCB, Linear mode
LI-IMX390-GMSL2	1920*1080 25/30fps, RAW12 RGGB, Linear mode
ISP tuning	Basic tuning for indoor use (BLC, GE, DPC, NP, CCM, CA, SINTER, GAMMA)
Video pipeline data format	RGB888
Multi cameras	Both cameras streams usable in parallel
HDMI display	FHD (1920x1080)
AE/AWB	Always on
White balance	Low/Mid/High
Led flickering	Selectable 50Hz/60Hz
Customer application	Started as a service

Accessories	Description
PSU (included)	100-240VAC, 50/60Hz - 24VDC 60W Max. CE/FCC/UKCA/EAC/CAN ICES-3(B)
Cameras (not included)	https://www.leopardimaging.com/
V3HSK (not included)	https://www.renesas.com