

ZR36430/ZR36431

Product Brief

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Overview

Zoran's COACH 5 is the fifth Camera On A CHIP (COACH) digital camera processor. COACH 5 is firmware compatible with previous COACH processors, thus instantly providing a mature camera development platform. COACH 5 is offered in two versions: COACH 5e (ZR36430), supporting up to 2.3 Megapixel sensors, and COACH 5p, (ZR36431) supporting up to 4 Megapixel sensors. For the camera developer, both versions have identical features and interface sets. The two versions provide cost effectiveness across the entry level and mid-range digital camera market segments.

The COACH 5 includes all required hardware and firmware to support: two- and three-field interlaced sensors, progressive sensors, CMOS sensors, View-LCD display, TV output, Flash Memory of all types, USB, RS232, and stereo/speech audio recording/playback.

The COACH 5 digital camera processor offers value and performance due to its flexible and programmable architecture that supports

a wide range of camera designs. COACH 5 eliminates the need for an external microcontroller. Internal A/D converters and additional general-purpose IO pins were added. User Interface software can be implemented within the COACH 5. Rom/Nor-type devices are no longer needed and the COACH 5 program can be stored on the same resident Nand-type flash memory used for image storage. Three-field CCD support, lens shading compensation (Patent Pending) and a smooth digital zoom allow significant cost savings for sensor and optics.

COACH 5 emphasizes image quality with true 10-bit enhanced sensor processing.

The COACH 5 comes with a complete development package that includes a "manufacture-ready" CamMini™ reference design, a comprehensive set of software development tools, and WHQL approved PC drivers.

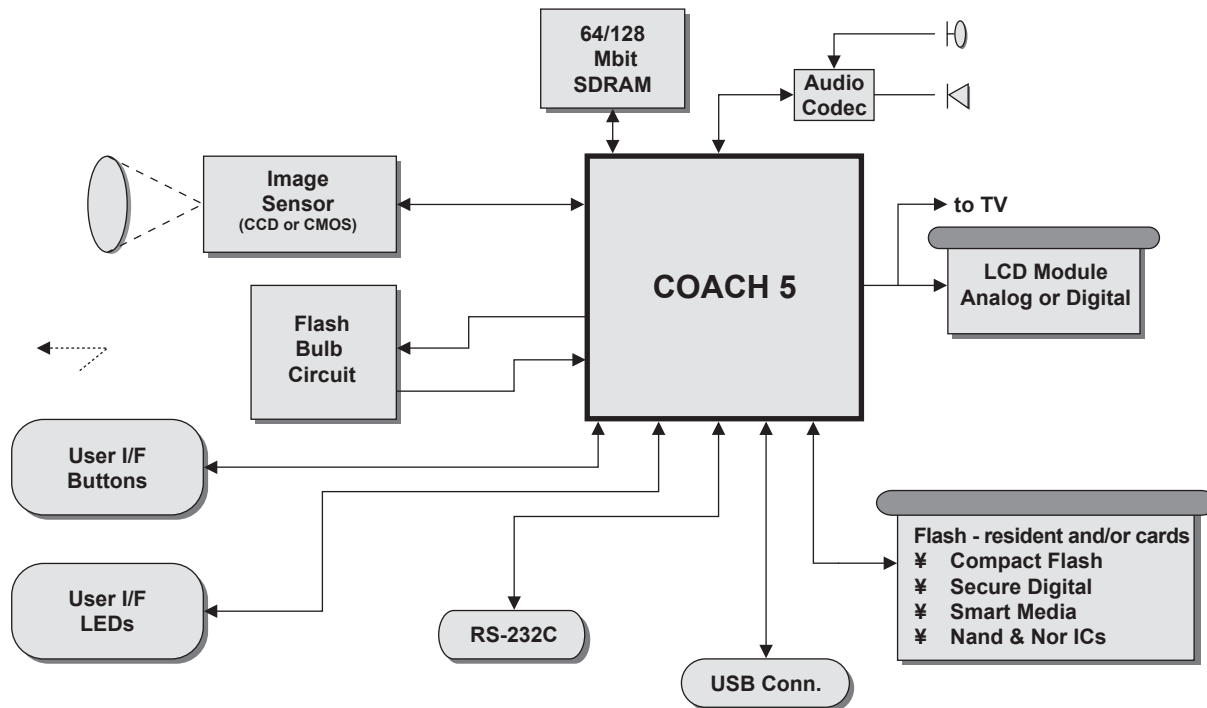


Figure 1. Camera System Block Diagram

