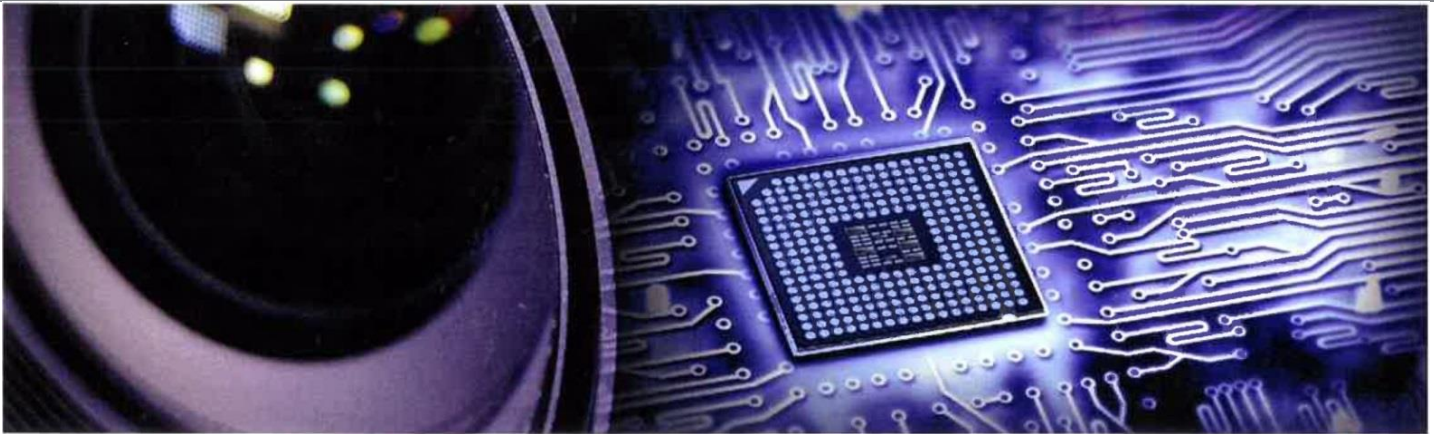
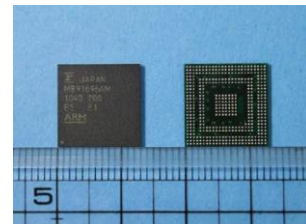


Milbeaut® Image Processor : MB91696B



■ Overview

“MB91696B” has realized the high-speed continuous shooting and high image quality of 14M size per second 7 frame by evolved image processing algorithm of Milbeaut with many of adoption experience in the sixth generation. In addition, the low noise Full HD video recording (1920×1080 pixels) is possible by the installation of the newly developed “H.264 full HD codec engine”. Evolution of these originally developed technology will make it possible to realize a camera solutions in one chip.



MB91696B (13mm×13mm)

■ Milbeaut ISP Solution

“Milbeaut” is a high quality imaging processor with track record of DSLR, smartphones, surveillance camera and other various cameras since its start-up in 2000.

Socionext will provide various imaging solution based on our experience in image processing technology accumulated with Milbeaut’s 15 years of history.

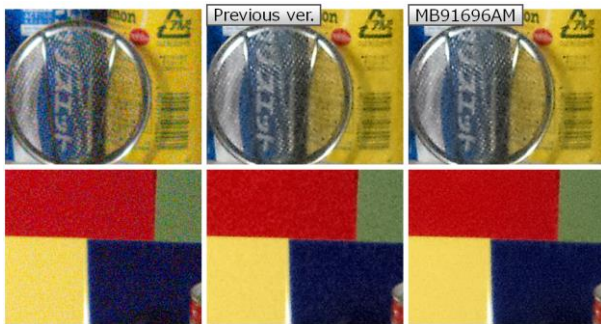


■ Key Feature

- High speed continuous shooting
 - Signal processing for eliciting the maximum performance of CMOS sensor
 - 14Mpix/7fps (100Mpix/s)
 - Offering new application by the continuous shooting function

- Video Application
 - H.264 1080/p30
 - Face Detection
 - Video Stabilization
 - 3D Noise Reduction(H.264)
 - Continuous Auto Focus
 - Object Tracking
 - WDR(Wide Dynamic Range)
 - Audio handling or LinearPCM/AAC-LC/μLaw by subCPU(ARM9)

◆ Noise Reduction



NR OFF Short NR ON Short / Long NR ON

◆ WDR –Wide Dynamic Range-



WDR OFF

WDR ON

■ Specification

Function	Specification	Function	Specification
ISP Process	65nm CMOS Technology	LCD Interface	8bit and 24bit
Package Size	Ball Pitch 0.5mm, Body size 13mm × 13mm	TV Interface	Composite(NTSC,PAL), HDMI(need Ext Chip)
CPU	ARM946E-S 288MHz x2	Card Interface	NandFlash, SDCard 2ch
Movie Codec	H.264 1080/p30, 720/p30	Continuous Shooting	14M/7fps
Image Processing rate	216Mpix/sec	Face Detection	Support(Hardware Assist)
Max Image Size	5.4K Pixel(Horizontal)	Distortion Correction	Support(Hardware)
Sensor Interface	Parallel : 12bit 1ch Serial : sub-LVDS 8Lane, MIPI 4Lane	Video Stabilization	Support(Hardware)
Host Interface	UART/CSIO 5ch, USB2.0 High-Speed	Still Stabilization	Support(Hardware)

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