

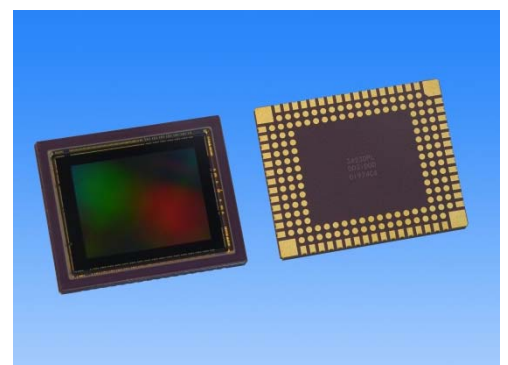


Note: These are SAMPLE pictures.

Panasonic's ν Maicovicon[®] image sensor delivers stunning images with high resolution pictures and rich colors at a touch of a button. Taking D-SLR camera technology to a higher level with exceptional quality and capturing scenes from any season, anywhere in the world.

Key Features

- New "On Chip Filter" for improved sensitivity
- Delivering high resolution still images
- Stunning pictures in low light and high bright conditions
- Supporting 4K2K HD movie
- Lowest noise sensor in the market
- Advanced LGA packaging technology for reliability

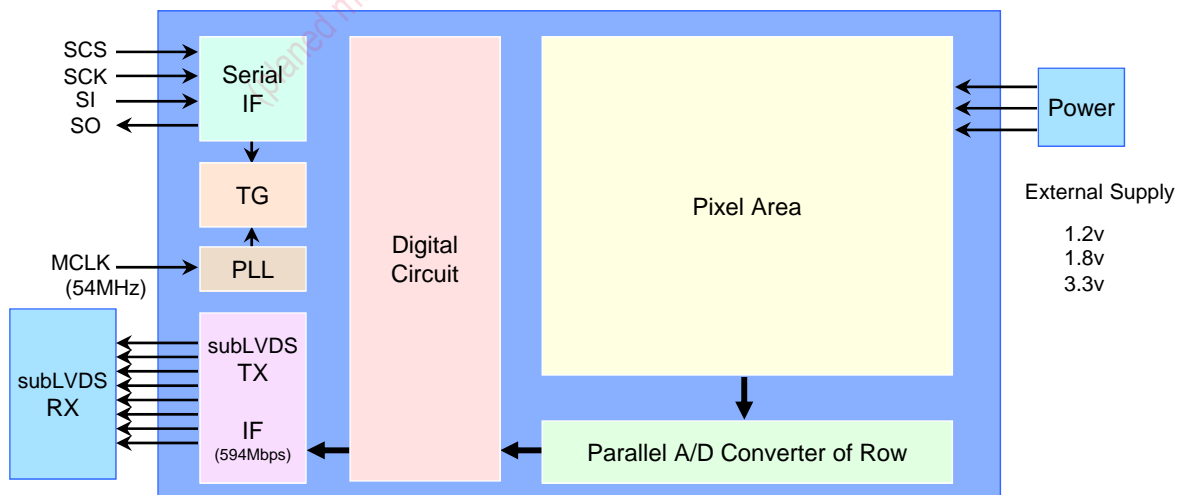


* ν Maicovicon is a registered trademark or trademark of Panasonic Corporation.

■ Specifications

Parameter	MN34230PL
Scan mode	Progressive scan
Optical size	4/3 type (inch), Aspect ratio = 4:3
Number of active pixels	4656 (H) x 3518 (V) = 16,379,808 (pixel)
Number of effective pixels	4644 (H) x 3506 (V) = 16,281,864 (pixel)
Total number of pixels	4732 (H) x 3560 (V) = 16,845,920 (pixel)
Pixel size	3.8 (H) um x 3.8 (V) um
Actual imaging area dimensions (active pixel area)	17.6472 (H) mm x 13.3228 (V) mm
Color filter arrangement	R,G,B Bayer Pattern
Package, Pin number	LGA 198pin Ceramic Package (21.90mm x 27.00mm x 2.68mm)
Power supply voltage	3.3V / 1.8V / 1.2V
Master clock	TYP 54MHz Jitter±400ps
Bit number of internal ADC	12bit
Output signal type	subLVDS DDR method 594 Mbps
Register I/F	4Line Serial I/F
Output frame rate per second	subLVDS 1ch8port 10bit format : 22.5 fps subLVDS 1ch8port 12bit format : 14.7 fps
Electronic shutter (Full scan)	Full scan 10bit mode (22.5 fps) 1 / 22.5 s ~ 1 / 81300 s (1/81300 s step)
Variable gain	Analog gain -9dB ~ +30dB 0.09375dB/step Digital gain -18dB ~ +18dB 0.09375dB/step
Functions	Full scan mode (No mixture, No decimation)
	Monitor (Live View) mode : 120fps
	HD movie mode 1080/60p (4pixel mixture) 720/60p (9pixel mixture)
	High speed mode 240fps / 481fps
	Full scan, Any size cropping
	4k2k movie mode (30fps)

■ Block Diagram



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