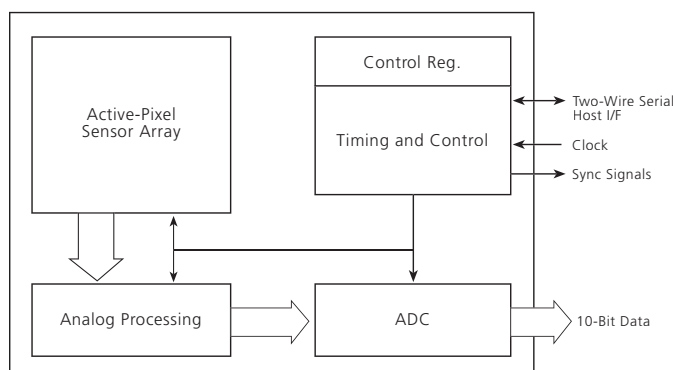


Specifications

Array Format (Active):	1,280H x 1,024V
Pixel Size:	5.2µm x 5.2µm
Imaging Area:	6.83mm x 5.45mm
Color Filter Array:	RGB Bayer primary color filters
Optical Format:	1/2 inch
Supply Voltage:	3.3V (3.0V–3.6V)
Frame Rate:	30 fps with programmable blanking, progressive
Data Rate:	48 MSPS
Responsivity (green pixels):	1.8V/lux-sec @ 550nm illumination
SNR:	45dB
Minimum Illumination:	0.3 lux nominal (SNR = 1, f# = 2.8, exposure = 100ms, daylight)
Dynamic Range:	61dB
Shutter:	Electronic rolling shutter (ERS), continuous (video) and single frame (still)
Exposure Control:	10µs to 500ms
Programmable Controls:	Gain, horizontal and vertical blanking, windowing, sampling rates, exposure, auto black level offset correction, image mirroring
Window Size:	Programmable
Operating Temperature Range:	0°C to 60°C
Dark Current @ 25°C	20 e/sec
Q. E. (Green)	52%
Temporal Noise	10e
Pixel Capacity	40Ke
Conversion Gain	32 uV/e
Master Clock	48 MHz
Power Consumption	325W nominal (275µW standby)
ESD Tolerances	2000V HBM, 200V MM
Package	48-pin CLCC
Color Sampling Rates	Full, 1/2, 1/4, 1/8 (in viewfinder mode)
Gain	MAX 15X, MIN step size 0.125
ADC	10 bit

Block Diagram



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