



Camelot: Versatile and Adaptable

Work Smarter Not Harder

Description

Camelot smart cameras are the perfect option for machine builders and product developers looking for high quality, low cost machine vision solutions suitable for mass production applications. Harnessing the power of an embedded Blackfin digital signal processor, no other camera offers such versatility of applications and connectivity. Competitive pricing and made-to-order solutions, equals lower production costs, improved quality, and earlier time to market.

Specifications

- Real Time On Camera Image Processing
- High Performance At Low Power Consumption
- Custom Fov And Sub Sampling
- Custom Look Up Tables, Lut, 12 To 8 Bit Conversions
- Peripherals And Flexibility That No Other Off-The-Shelf Camera Can Provide
- 64 Mbytes Ram
- 16 Mbytes Flash

Adaptable and Flexible

- Board Level Option
- Stackable Solution
- Versatile Embedded And Pc Sdks
- Programmable Gpio
- SPI, UART Support

Benefits/Features

- Multiple Camera Support
- Supports External Trigger
- Supports Micro Or C/Cs Mount Lenses
- Optional Communication Boards
- Available Right Angle Cable Option

Applications

- Medical
- Industrial
- Robotics
- Identification
- Print/Surface Inspection

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Camelot Specifications

	WVGA	1.3MP	3MP	5MP	10MP
Sensor	1/3"	1/2"	1/2"	1/2.5"	1/2.3"
Resolution	752x480	1280x1024	2048x1536	2592x1944	3664x2748
Frame Rate (FPS)	60	30	12	8	4
Dynamic Range	>55dB Linear >100dB in HDR mode	68.2db	61db	70.1db	65.2db
Pixel Size	6.0 x 6.0µm	5.2 x 5.2µm	3.2 x 3.2µm	2.2 x 2.2µm	1.67 x 1.67µm
Electronic Shutter	Global	Rolling	Rolling	Rolling	Rolling
Responsivity	4.8V/lux-sec (550nm)	2.1V/lux-sec (550nm)	>1.0V/lux-sec (550nm)	1.4V/lux-sec (550nm)	0.31V/lux-sec (550nm)
Analogue Gain	1x - 4x in steps of 0.0625	1x - 15x in steps of 0.125	1x - 8x in steps of 0.125	1x - 8x in steps of 0.125	1x - 32x in steps of 0.02
Digital Gain	25 tiles each programmable with individual gains from 1x -64x	N/A	1x - 16x	1x - 16x	1x - 7x
Monochrome / Color	Both	Monochrome Only	Both	Both	Both
Area of Interest Configuration (AOI)	Custom User Defined				
Image Acquisition	Continuous and Trigger Controlled				
Defect Pixel Correction	Yes				
Binning	Vertical and Horizontal 2X, 4X and User Defined				
Subsampling	Vertical and Horizontal 2X, 4X and User Defined				
Image Buffer	For image acquisition, image processing, and readout				
Video Output	USB, UART, Ethernet - Optional				
Output Resolution	Selectable 8, 10 or 12 Bit				
I/O Interface	9 Programmable GPIO Pins, 7 Programmable PWM Pins, Programmable Strobe Output and Trigger Input				
Sensor Position	Factory Aligned and Stable				
Testing	100% Factory Test on all Specifications				
Compliance	RoHS				

About Imaging Diagnostics

Imaging Diagnostics is a market leader in embedded vision solutions. We have a wide spectrum of capabilities using and integrating imaging devices in many types of applications including; medical, industrial, and security. Imaging Diagnostics is part of the BDR Group.

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