

IT-Alkeria-CELERA ONE Series



Alkeria, a company insisting on quality and innovation, holds strong expertise in high-performance digital image acquisition and motion control.

CELERA One camera series provides the same excellence in quality, flexibility and performances of CELERA cameras, with the only exception of a single USB3 interface, while keeping the original extremely reduced dimensions and rugged design that make CELERA One cameras suitable for most applications: automated optical inspection, high performance sorting systems, industrial metrology, microscopy, medical diagnostics and machine vision.

- **Tiny rugged design**
- **USB 3 interface:** USB 3 provides the most cost effective and widespread interface, pushing speed performances at the top.
- **Powered directly by the USB 3 bus, eliminating the need for external power adapters**
- **Maximum sensor size: 1"; Max. resolution: 5M pixels**
- **User-controlled image processing:** Independent LUTs, gamma correction, white balance, brightness, contrast, sharpness, saturation and hue; its control sequencing mechanism allows up to 64 different video settings to be applied to a sequence of subsequent frames.
- **Versatile I/O, Shielded I/O cable:** With 2 inputs, 2 outputs and 1 I/O, CELERA ONE series offers unprecedented flexibility for interfacing to outer world signals: direct encoder readout and strobed lightening have never been so easy.
- **F mount adapter; C mount adapter is always supplied but can be removed easily.**
- **Frame rate up to 170fps at the max. resolution**
- **Fast global-shutter CMOS technology**
- **Triple programmable LUTs:** Independent LUTs (one for each color) allow easy color thresholding, filtering and calibration for color-critical applications.
- **Smart data:** Embedded timestamp, trigger counters, encoder position, latched input status and input change detection allow perfect image-to- real world
- **API:** An easy-to-use set of software API is available which allows developers to quickly produce fast and well readable code on Windows (VC++/C#/VB.Net) and Linux

Model	Pixel Class	Resolution	Pixel Size μm*μm	Sensor Type	Sensor Size	Max. Frame Rate (fps)	Shutter	Exposure Time	Interface	Lens Mount	Dimensions mm*mm*mm
CO2K-M/C	2.2M	2048*1088	5.5*5.5	CMOS(AMS CMV2000)	2/3"	174(Mono)/87(Color)	Global	15μs-5s	USB3.1 Gen1	C Mount, F Mount optional	56*56*26.7 (without lens adapter)
CO4K-M/C	4.2M	2048*2048	5.5*5.5	CMOS(AMS CMV4000)	1"	92(Mono)/46(Color)	Global	26μs-5s			
CO5S-M/C	5M	2448*2048	3.45*3.45	CMOS(SONY Pregius® IMX264)	2/3"	35(Mono/Color)	Global	28μs-5s			
CO12S-M/C	12.4M	4112*3004	3.45*3.45	CMOS(SONY Pregius® IMX303)	1.1"	23(Mono)/35(Color)	Global	30μs-5s			