
VA-29MC2-6

29 MEGAPIXEL RESOLUTION

HIGH-SPEED PROGRAMMABLE DIGITAL CAMERA



The new 29 megapixel progressive scan high performance CCD camera, VA-29MC2-6, is a new member of industrial proven VA Camera Link series. Equipped with the Viewworks' innovative technologies proved by world's top FPD manufacturers, VA-29MC2-6 offers not only high uniformed images but also high speed image processing capabilities. This camera supports 29 megapixel resolution with frame rate up to 6.1 fps. Featured with high quality image uniformity and high resolution, the camera is ideal for demanding applications such as FPD, PCB, and semiconductor inspections.

VIEWWORKS

VA-29MC2-6

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Main Features

- * 29 Megapixel Resolution
- * Progressive Scan Interline Transfer CCD Imager
- * 8/10/12 bit Data Output
- * Up to 6.1 fps with Camera Link Medium Configuration
- * Global Shutter
- * Flat Field Correction
- * Pixel Defect Correction
- * Field Upgradable Firmware

Applications

- * FPD, Electronics and Semiconductor Inspection
- * Research and Scientific Imaging
- * Microscopy and Metrology

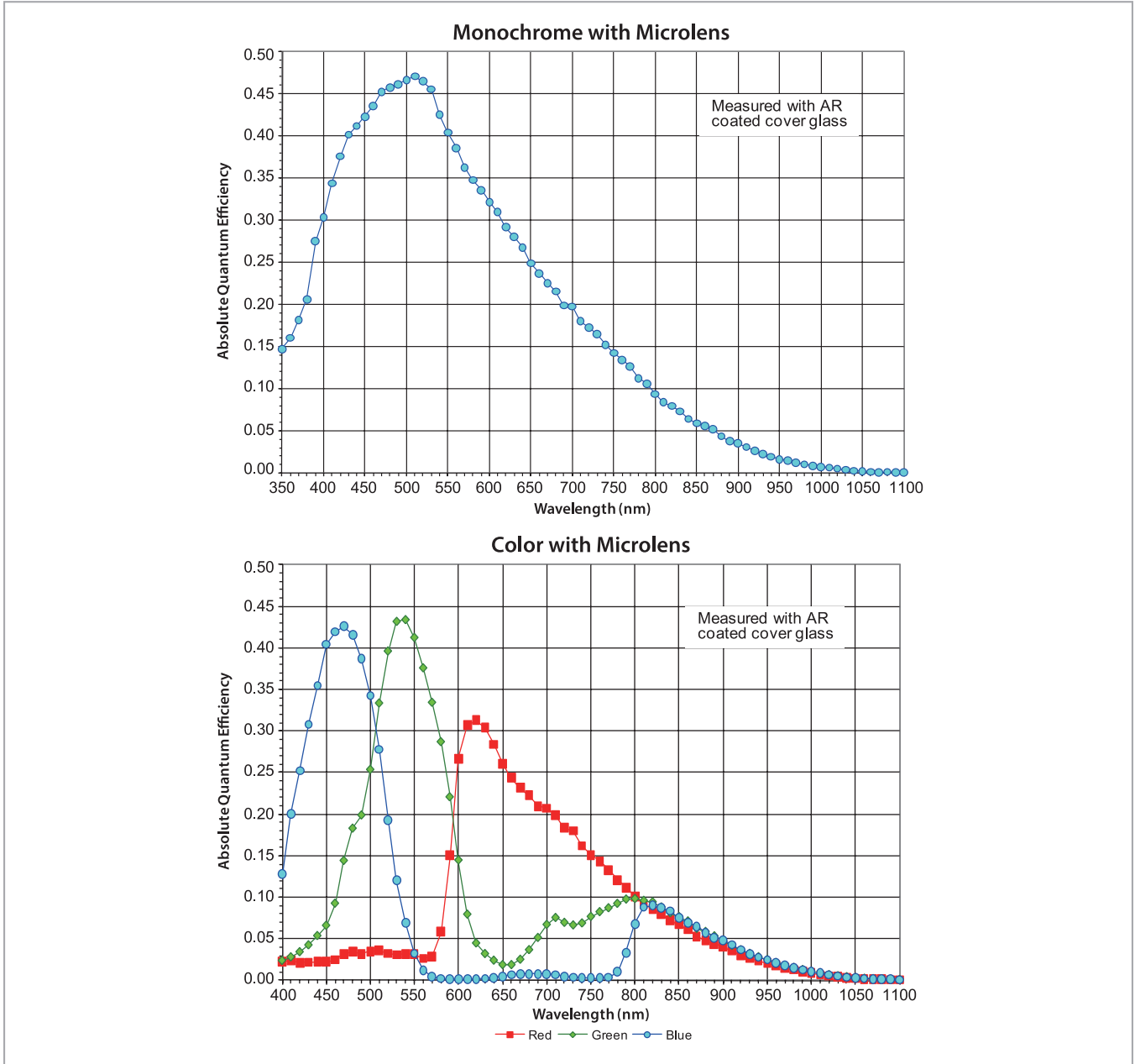
Specifications

Model	VA-29MC2-M/C 6	
Resolution (H × V)	6576 × 4384	
Sensor (ON Semiconductor)	KAI-29050	
Sensor Size (Optical Format)	36.17 mm × 24.11 mm (35 mm)	
Sensor Type	Progressive Scan Interline Transfer CCD	
Pixel Size	5.5 μm × 5.5 μm	
Sensor Output	1, 2 or 4 Tap	
Interface	Camera Link	
Max. Frame Rate	Normal Speed: 4.8 fps (Camera Link Base Configuration) High Speed: 6.1 fps (Camera Link Medium Configuration)	
Exposure Time	1 μs ~ 60 s (10 μs step)	
Partial Scan (Max. Speed)	18 fps at 1000 Lines	
Pixel Data Format	8 / 10 / 12 bit	
Electronic Shutter	Global Shutter	
Data Output	1, 2 Tap	Normal: 40 MHz / High: 52 MHz
Pixel Clock Speed	4 Tap	Normal: 80 MHz / High: 52 MHz
Trigger Mode	Free-Run, Standard, Fast, Double, Overlap Programmable Exposure Time and Trigger Polarity	
Dynamic Range	64 dB	
Binning	×1, ×2, ×4 (Horizontal and Vertical Independent)	
Gamma Correction	User Defined Lookup Table (LUT)	
Analog Offset	Adjustable (0 ~ 127 LSB at 12 bit, 256 steps)	
Analog Gain	0 ~ 32 dB, 900 steps	
Dimension / Weight	68 mm × 68 mm × 102 mm, 500 g (with F-mount)	
Temperature	Operating: -5°C ~ 40°C, Storage: -40°C ~ 70°C	
Lens Mount	F-mount, Custom mount available upon request	
Power	10 ~ 14 V DC, Typ. 9.5 W	
Compliance	CE, FCC, KC	
Configuration Software	Configurator	

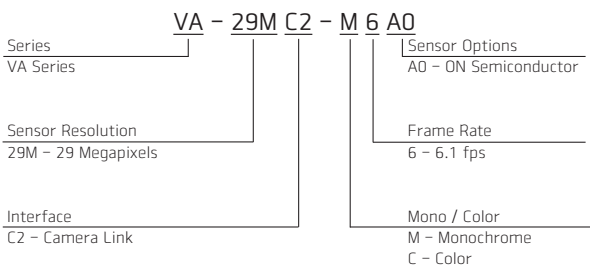
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Quantum Efficiency Curves



Ordering Scheme



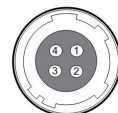
Connector Specification

Power



1 2 3: +12V DC, 4 5 6: GND (HR10A-7R-6PB)

Control



1: Trigger IN+, 2: Trigger IN-
3: DC Ground, 4: Strobe OUT+ (HR10A-7R-4S)

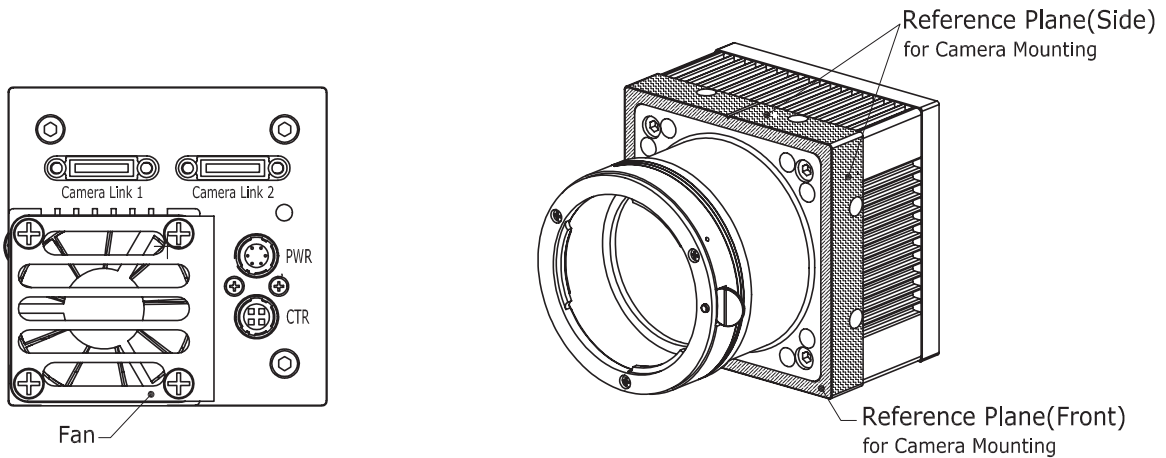
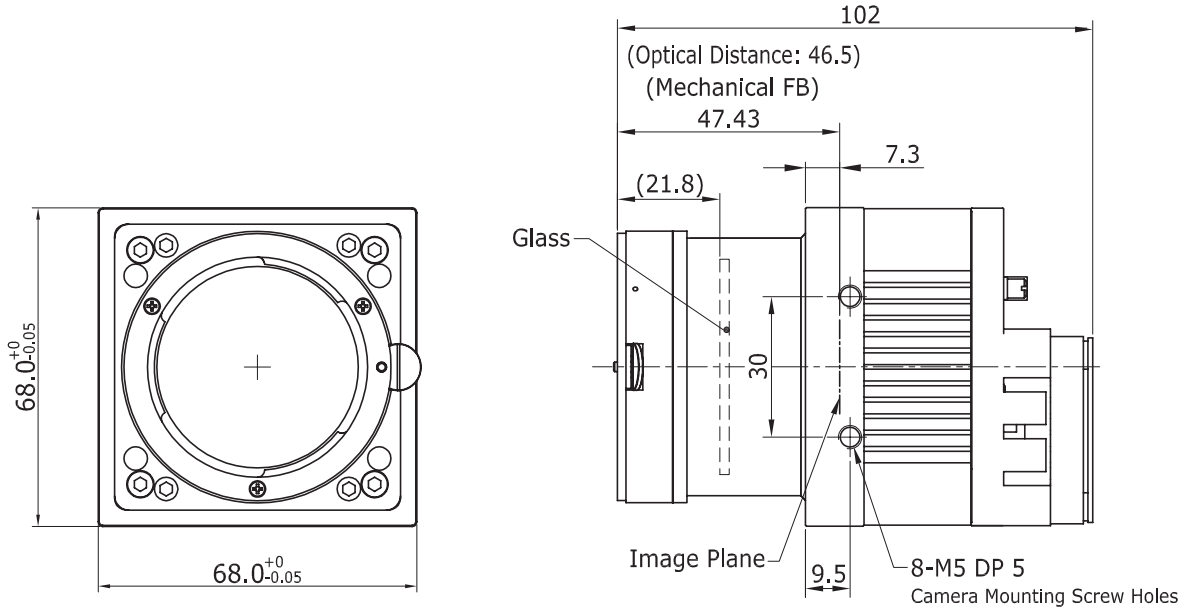
Connectors on camera body

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Mechanical Dimensions

Unit: mm



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