vieworks

VN-11MC

NANO STAGE PIXEL SHIFT CAMERA FOR EXTENDED RESOLUTIONS

The VN-11MC camera delivers up to 96 million pixel resolution. This ultra-high resolution is achieved by using Nano Pixel Shift technology built directly into the camera. Using this technology, an 11 million pixel interline transfer CCD can be shifted in the X and Y to produce either 96, 43, or 11 million pixel images. This camera is ideal for Document Imaging, Film Scanning, Microscopy, and Inspection applications where the object is stationary.

Main Features

* Nano Stage Pixel Shift Mechanism
* Extended Resolution up to 96 Mega Pixels
* True Color Image realized
* Improved Fill Factor
* Kodak Progressive Scan IT CCD Imager
* Flat Field Correction
* Field Upgradable Firmware
* Defective Pixel Compensation

Applications

* Electronics, Semiconductor Inspection
* Document Digitizing
* Film Scanning
* Scientific Imaging
* Microscopy

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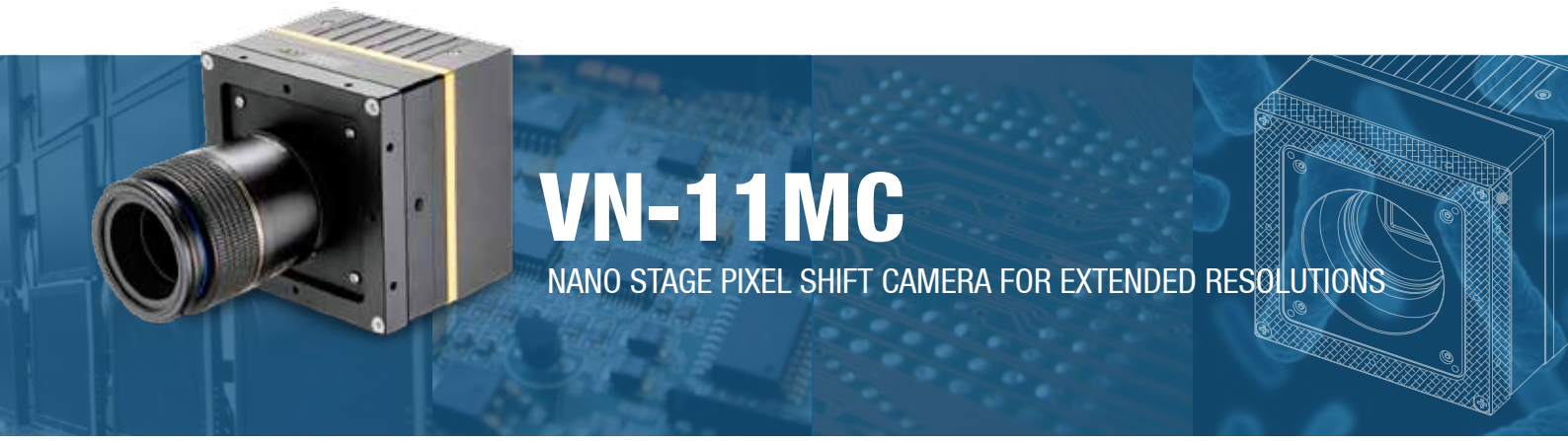


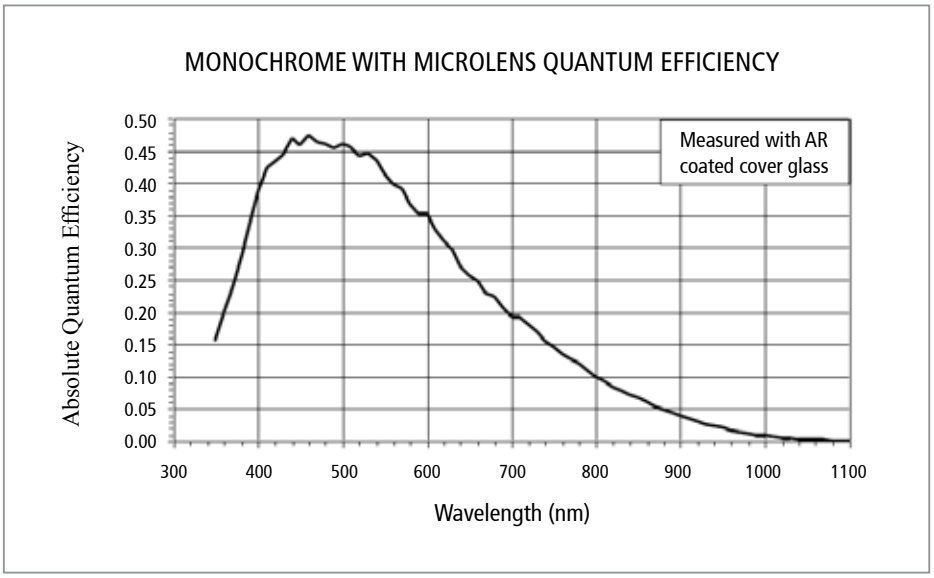
VN-11MC

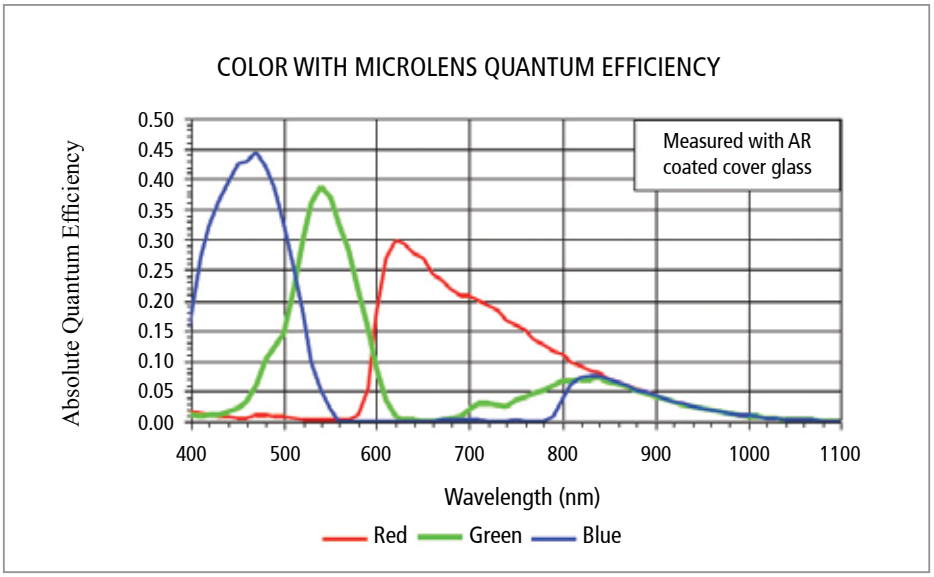
NANO STAGE PIXEL SHIFT CAMERA FOR EXTENDED RESOLUTIONS

Specifications

Model		VN-11MC
Active Image		4008(H) x 2672(V)
Sensor Type		KAI-11002
Pixel size		9.0㎛ × 9.0㎛
Video Output		8/10/12 bits, 1 or 2 Tap
Camera Interface		Camera Link (Base)
Electronic Shutter		Global Shutter
Max Frame Rate(40MHz)		10.7M mode : 6.4 fps 42.8M mode : 1.6 fps 96.4M mode : 0.7 fps
Resolution		4008 x 2672, 10.7M (1 X mode) 8016 x 5344, 42.8M (4 X mode) 12024 x 8016, 96.4M (9 X mode)
Pixel Clock		30/40 MHz
Exposure Time		1/7000 sec ~7 sec (10㎲ step)
Partial Scan		30 fps at 334 Lines (max. speed)
Gamma Correction		User defined LUT
Black Offset		Adjustable (0~127 LSB at 12 bit , 256 step)
Video Gain		Analog Gain: 0 ~ 32 dB, 900 step
Trigger Mode		Mode(free run , Overlap, fast, double), Programmable exposure time, Programmable trigger polarity
External Trigger		External, 3.3V - 5.0V, 10mA, optically isolated
Software Trigger		Camera Link CC1, Programmable Expose
Dynamic Range		>64 dB
Control		RS-232C via Camera Link (115.2K bps)
Pixel shift	Shift Step	0~30um, 1nm step
	Shift Speed	<30ms(30um Shift)
	Repeatability	+/- 50nm
	Control	RS-232C via CameraLink (115.2K bps)
Lens Mount		F-Mount or M72 Mount
Power		10~14V DC, MAX. 10W
Environment		-5°C~+40°C , storage :-30°C~65°C
Mechanical		120mm(H) x120mm(V) x 160mm(D), 3.1Kg

Quantum Efficiency Curves





Ordering Scheme

VN - 11MC - M6AO

- Series: VN series
- Sensor Resolution: 11M - 11 megapixels
- Interface: C - Camera Link
- Sensor Option: A0 - Kodak
- Frame Rate: 6 - 6 fps
- Mono / Color: M – Monochrome, C – Color

Connector Specifications

Power

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

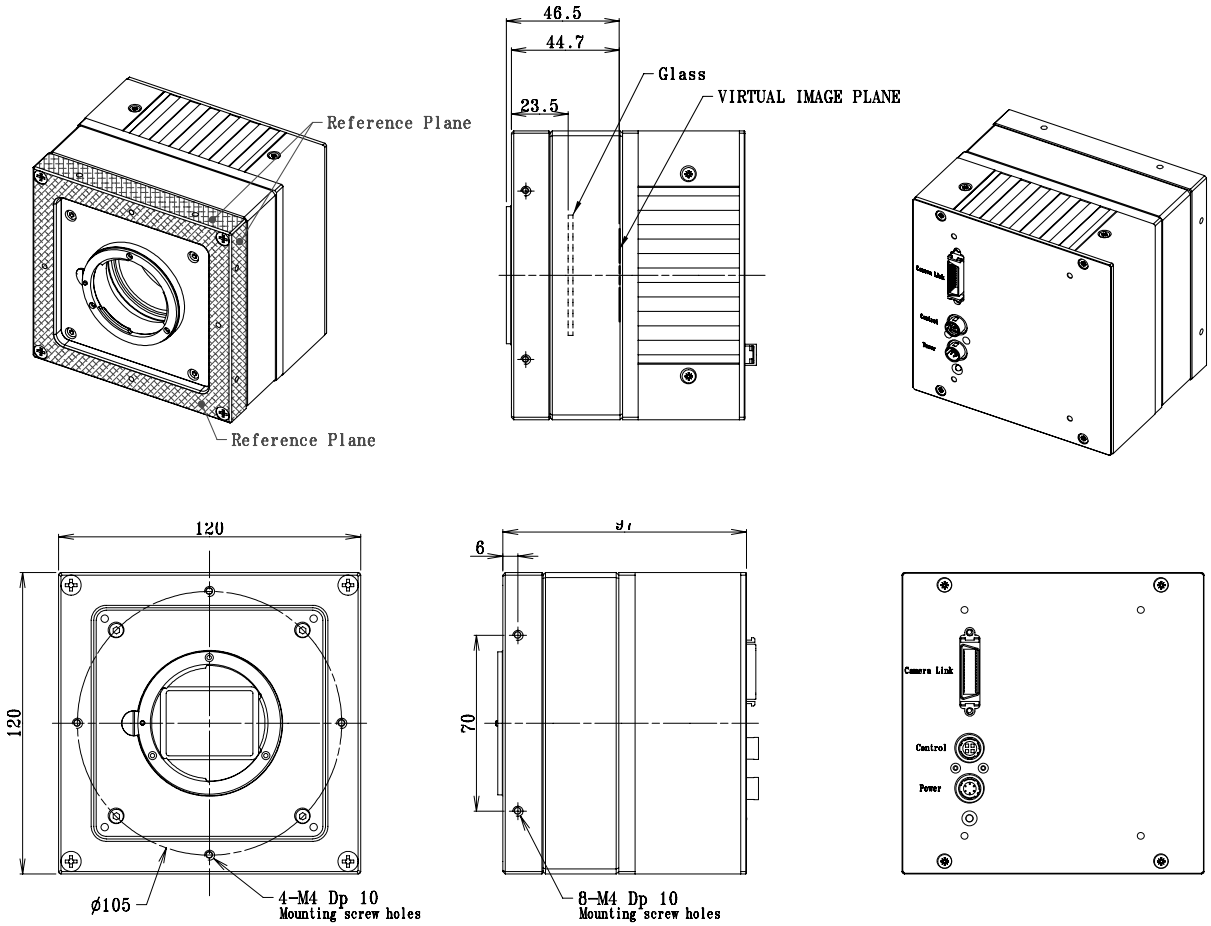
Control

1 : Trigger IN+, 2 : Trigger IN-
3 : Strobe OUT- (GND), 4 : Strobe OUT+
(HR10A-7R-4SB)

Connectors on camera body

Mechanical Dimensions

Unit : mm



For more information please contact local distributor or visit our website at www.vieworks.com

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