

VX-29MG

AERIAL IMAGING / SURVEILLANCE CAMERA





The VX Series cameras are ideal for aerial imaging and ground surveillance applications which require Photographic Quality resolution and easy-to-use system integration. The VX-29M camera incorporates a 29 million pixel interline transfer CCD with resolution of $6,576 \times 4,384$. Taking pictures with this camera is made easy with features such as: auto exposure, auto gain, auto focus, lens aperture control, and several innovative features to manage network bandwidth when connecting multiple cameras together on a gigabit Ethernet network.

Main Features

- * 29 Megapixel Resolution (Truesense Imaging IT Progressive)
- * Auto Exposure, Auto Gain, Auto Aperture Controls
- * Auto Focus
- * Canon-EF Adapter Control
- * Smear Correction
- * Flexible Binning
- * Internal frame buffer
- * IEEE 802.3 (pause frame control)
- * Inter-Packet Delay
- * User Adjustable back focus
- * Field Upgradable Firmware
- * Pixel Defect Correction
- * Excellent anti-blooming and anti-smear

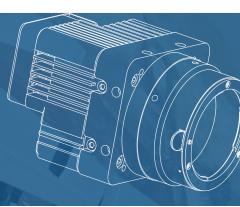
Applications

- * Aerial Imaging
- * Ground Surveillance
- * Research and Scientific Imaging



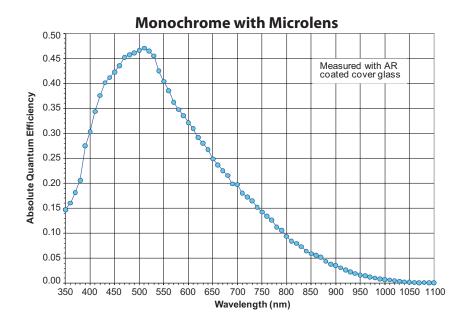
VX-29MG

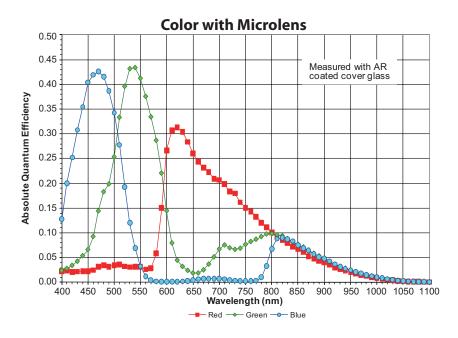
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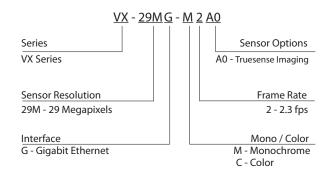
Specifications

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Model		VX-29MG
Resolution $(H \times V)$		6576 × 4384, 28.8M
Sensor Type		Truesense Imaging KAI 29050
Sensor Size (Optical Format)		35 mm
Sensor Type		Progressive Scan Interline Transfer CCD
Pixel Size		$5.5 \mu \text{m} \times 5.5 \mu \text{m}$
Sensor Output		1 or 2 Tap
Pixel Data Format		8/10/12 bit
Output Format	Mono	Mono8, Mono10/12 packed
	Color	Bayer8, Bayer10/12 packed
Interface		Gigabit Ethernet
Electronic Shutter		Global Shutter
Shutter Speed		46/1,000,000 ~ 7 sec
Partial Scan (Max. Speed)		8.8 fps at 500 Lines
Binning		\times 1, \times 2, \times 3, \times 4, \times 8 (Horizontal and Vertical Independent)
Smear		-100 dB (Enhanced Correction Supported)
Image Correction		G = 1.0, Knee Control User defined Look Up Table (LUT)
Black Offset		Adjustable (0 ~ 127 LSB at 12 bit, 256 steps)
Analog Gain	VGA Gain	0 ~ 32 dB, 900 steps
	CDS Gain	-3.0, 0.0, +3.0, +6.0 dB
Digital Gain		×1 ~ ×64 (1/1024 step)
Max. Frame Rate (40 MHz)		2.3 fps (dual) / 1.2 fps (single)
Data Output Pixel Clock Speed		30/40 MHz
Trigger Mode		Free-Run ,Timed Exposure, Pulse Width Exposure, Double Exposure
Dynamic Range		> 64 dB
Dimension(W×H×L)/Weight		74 mm \times 65 mm \times 103 mm / 550 g (with F-mount) 74 mm \times 65 mm \times 101 mm / 550 g (with Canon-EF adapter)
Temperature		Operating: -35° C ~ 60° C, Storage: -40° C ~ 70° C
Vibration / Shock		10G (20 ~ 200 Hz) XYZ / 70G 10 ms
Lens Mount		F-mount or Interface for Canon-EF adapter
Power		10 ~ 15 V DC MAX. 10 W
API SDK		Vieworks Imaging Solution 6.X





Ordering Scheme



Connector Specification

Power



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

Control



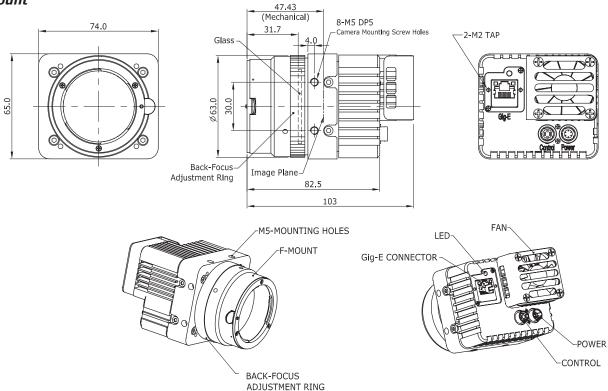
- 1 : Trigger IN+, 2 : Trigger IN-
- 3: Strobe OUT, 4: DC GND
- 5 : RS-232 RX ←, 6 : RS-232 TX → (HR10A-7R-6SB)

Connectors on camera body

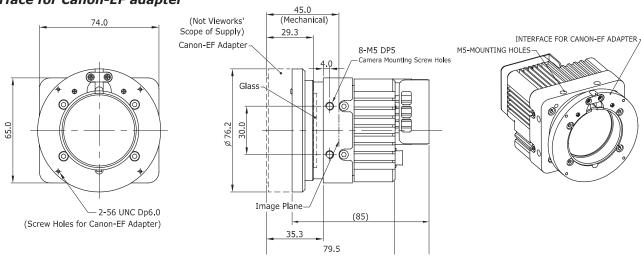
Mechanical Dimensions

Unit:mm

F-mount



Interface for Canon-EF adapter



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

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ISO-9001, ISO-13485

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