



vieworks

VX-29MC

AERIAL IMAGING / SURVEILLANCE CAMERA



The VX-29MC is a Camera Link version of VX series proving an extremely robust and powerful interface. It is ideal for aerial imaging and high-end surveillance applications which require highest attention to detail. 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; Automatic Exposure, Automatic Gain and Automatic Iris (optional lens control mount) control.

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
- * User Adjustable back focus
- * Field Upgradable Firmware
- * Pixel Defect Correction
- * Excellent anti-blooming and anti-smear

Applications

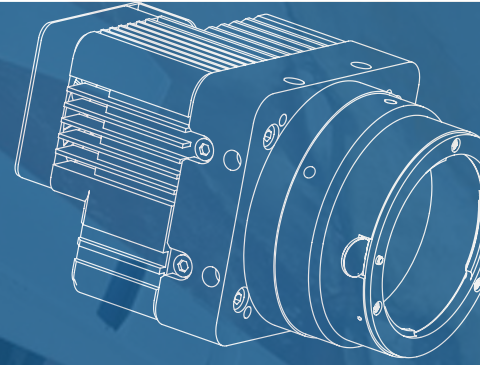
- * Aerial Imaging
- * Ground Surveillance
- * Research and Scientific Imaging

machinevision.vieworks.com



VX-29MC

AERIAL IMAGING / SURVEILLANCE CAMERA

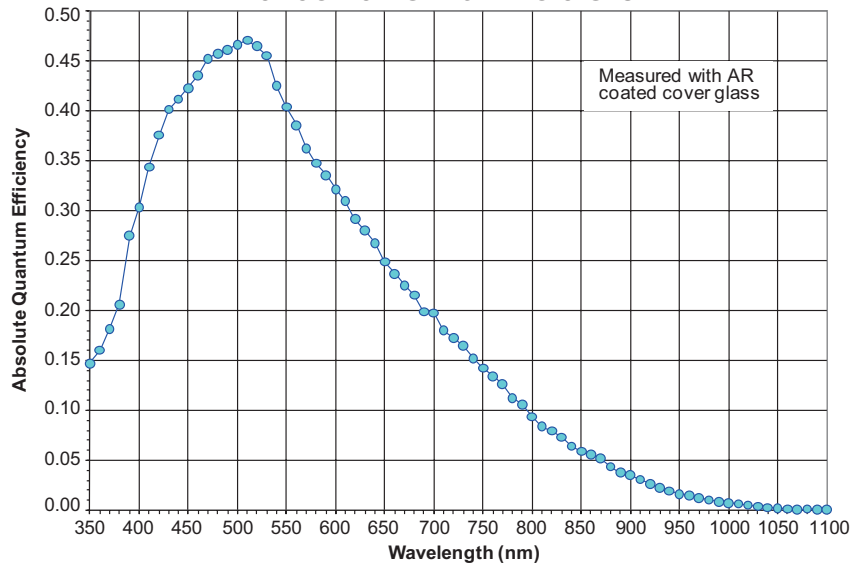


Specifications

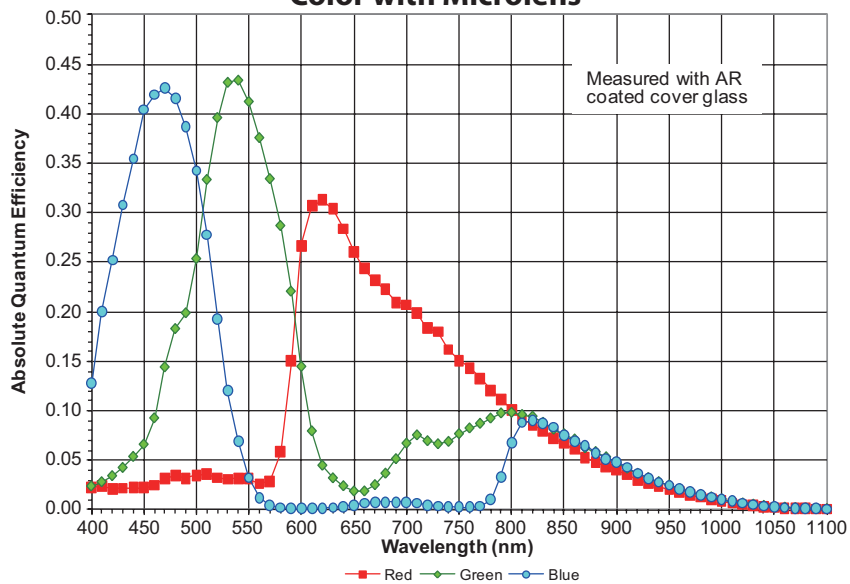
Model	VX-29MC
Resolution (H × V)	6576 × 4384, 28.8M
Sensor	Truesense Imaging KAI 29050
Sensor Size (Optical Format)	35 mm
Sensor Type	Progressive Scan Interline Transfer CCD
Pixel Size	5.5 μm × 5.5 μm
Sensor Output	1, 2 or 4 Tap
Pixel Data Format	8/10/12 bit
Interface	Base Camera Link (SDR)
Electronic Shutter	Global Shutter
Shutter Speed	23/1,000,000 ~ 7 sec
Partial Scan (Max. Speed)	17.3 fps at 500 Lines
Binning	×1, ×2, ×3, ×4, ×8 (Horizontal and Vertical Independent)
Smear	-100 dB (Enhanced Correction Supported)
Lookup Table	G = 1.0, Knee Control User defined Look Up Table (LUT)
Black Level	Adjustable (0 ~ 127 LSB at 12 bit, 256 steps)
Analog Gain	×1 ~ ×40 (0 ~ 32 dB)
Digital Gain	×1 ~ ×64 (1/1024 step)
Max. Frame Rate (40 MHz)	4.6 fps (quad) / 2.3 fps (dual) / 1.2 fps (single)
Data Output Pixel Clock Speed	30/40 MHz
Exposure Mode	Timed Exposure, Trigger Width Exposure, Double Exposure
Dynamic Range	> 64 dB
Dimension(W×H×L)/Weight	74 mm × 65 mm × 103 mm / 550 g (with F-mount) 74 mm × 65 mm × 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
Configuration Software	Configurator

Quantum Efficiency Curves

Monochrome with Microlens



Color with Microlens



Ordering Scheme

VX - 29MC - M 5 A0

Series
VX Series

Sensor Resolution
29M - 29 Megapixels

Interface
C - Camera Link

Sensor Options
A0 - Truesense Imaging

Frame Rate
5 - 4.6 fps

Mono / Color
M - Monochrome
C - Color

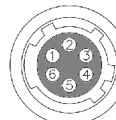
Connector Specification

Power



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

Control



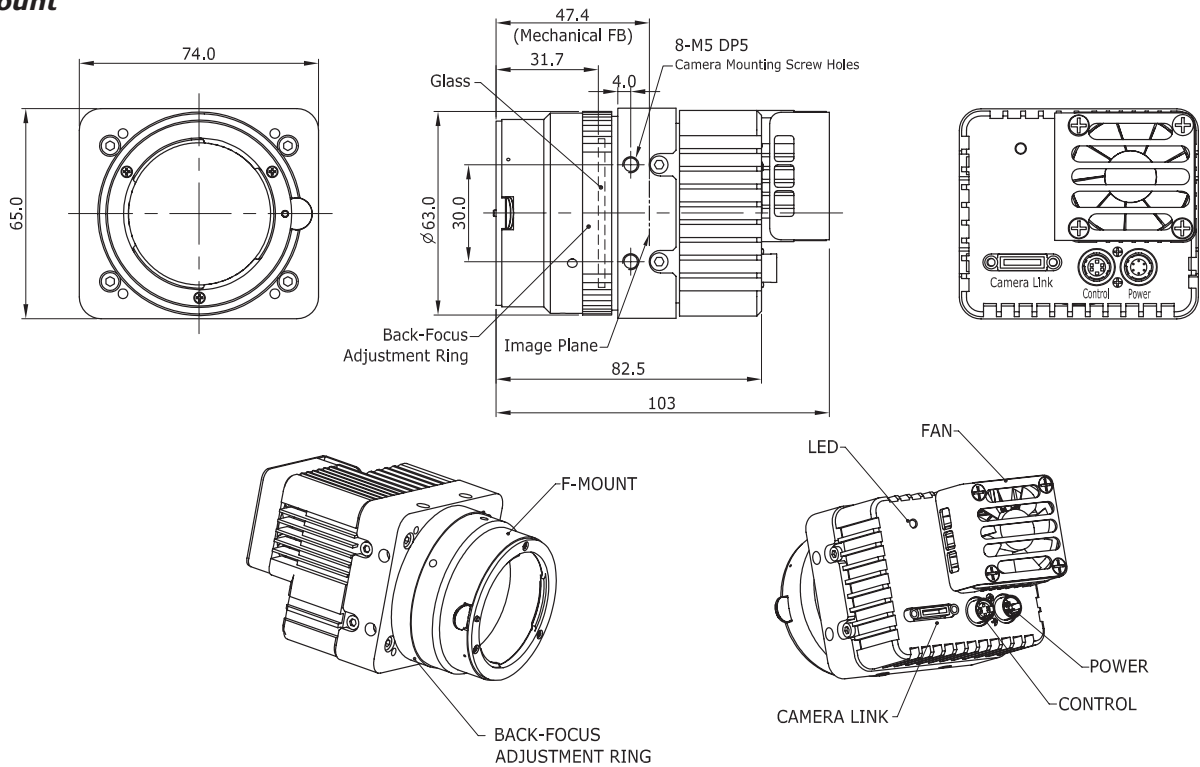
1: Trigger IN+, 2: Trigger IN-
3: Strobe OUT, 4: DC GND
5: RS-232 RX ←, 6: RS-232 TX →
(HR10A-7R-6SB)

Connectors on camera body

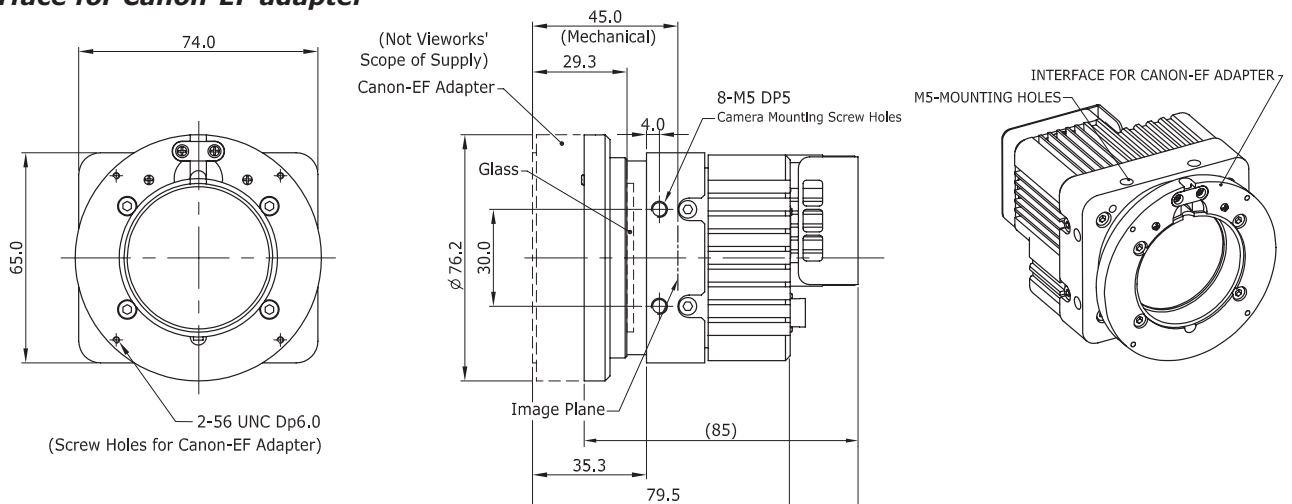
Mechanical Dimensions

Unit : mm

F-mount



Interface for Canon-EF adapter



For more information please contact local distributor or visit our website at <http://machinevision.vieworks.com>

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ISO-9001, ISO-13485

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