VX-25MG-M 5

AERIAL IMAGING / SURVEILLANCE CAMERAS

GiGE VISION

The VX-25MG-5 camera is ideal for aerial imaging and ground surveillance applications which require Photographic Quality resolution and easy-to-use system integration. The VX-25MG, the new member of the VX series, uses the industrial proven CMOS imaging sensor technology and performs as fast as 5 fps with 25 million pixel resolution. 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.

VX-25MG

AERIEAL IMAGING / SURVEILLANCE CAMERAS

Main Features

* 25 Megapixel Resolution (ON Semiconductor)
* Extended Operating Temperature: -40℃ ~ 70℃
* Auto Controls (Exposure, Gain, Aperture, Focus)
* Canon-EF Adapter Control
* Pixel Defect Correction
* Non-uniformity Correction (DSNU and PRNU)
* IEEE 802.3 (Pause Frame Control) and Inter-packet Delay
* Internal Frame Buffer
* Stream Hold

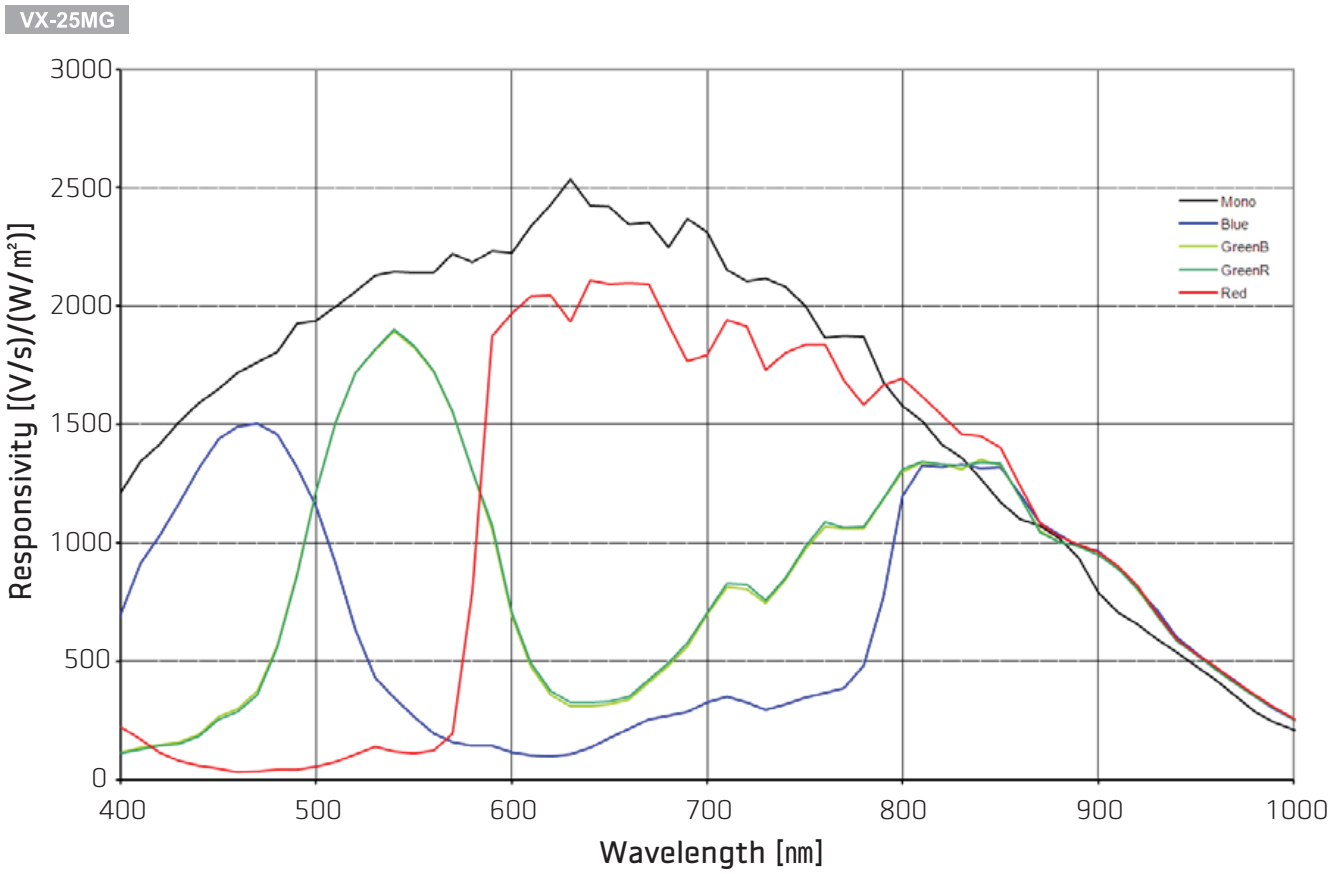
Applications

* Aerial Imaging
* Ground Surveillance
* Research and Scientific Imaging

Specifications

Model	VX-25MG-M 5
Resolution (H × V)	5120 × 5120
Sensor	ON Semiconductor VITA-25K
Sensor Size (Optical Format)	35 ㎜
Sensor Type	High Speed CMOS Image Sensor
Pixel Size	4.5 ㎛ × 4.5 ㎛
Sensor Output	32 CH LVDS
Interface	Gigabit Ethernet
Max. Frame Rate	4.7 fps / 25 fps (Burst Mode)
Exposure Time	1/1,000,000 - 60 s
Partial Scan (Max. Speed)	13,888 fps at 1 Lines (H: 256)
Pixel Data Format	8 bit
Electronic Shutter	Global Shutter
Exposure Mode	Timed Exposure and Trigger Width Exposure
Dynamic Range	54 dB
Binning	×1, ×2 (Horizontal and Vertical Independent)
Black Level	Adjustable (0 ~ 16 LSB, 16 steps)
Digital Gain	×1 ~ ×4 (1/128 step)
Camera Image Memory	2 Gb
Dimension / Weight	68 ㎜ × 68 ㎜ × 80 ㎜, 420 g (with F-mount) 68 ㎜ × 68 ㎜ × 77 ㎜, 578 g (with Canon-EF Adapter)
Temperature	Operating: -50℃ ~ 80℃, Storage: -50℃ ~ 90℃
Vibration / Shock	10G (20 ~ 200 ㎐) XYZ / 70G 10 ㎳
Lens Mount	F-mount or Interface for Canon-EF Adapter
Power	10~36 V DC, Typ. 7.5 W
API SDK	Vieworks Imaging Solution 7.X

Quantum Efficiency Curves



Ordering Scheme

VX – 25M G – M 5 D0

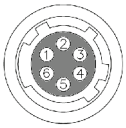
- Series: VX Series
- Sensor Resolution: 25M – 25 Megapixels
- Interface: G – Gigabit Ethernet
- Mono / Color: M – Monochrome
- Frame Rate: 5 – 4.7 fps
- Sensor Options: D0 – On Semi CMOS

Connector Specification

Power

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

Control



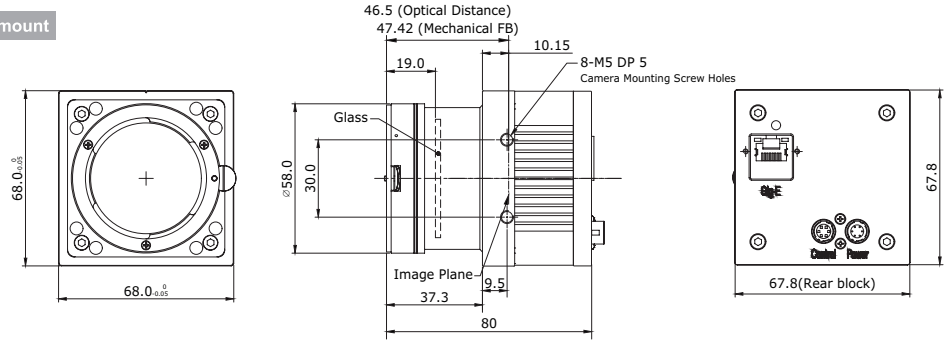
1: Trigger IN+, 2: Trigger IN–
3: Strobe Out, 4: DC Ground
5: RS-232-RX←, 6: RS-232 TX→
(HR10A-7R-6SB)

Connectors on camera body

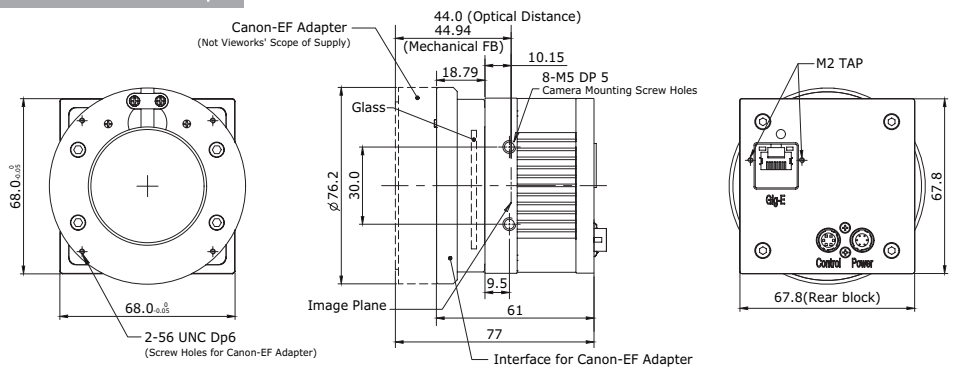
Mechanical Dimensions

Unit: mm

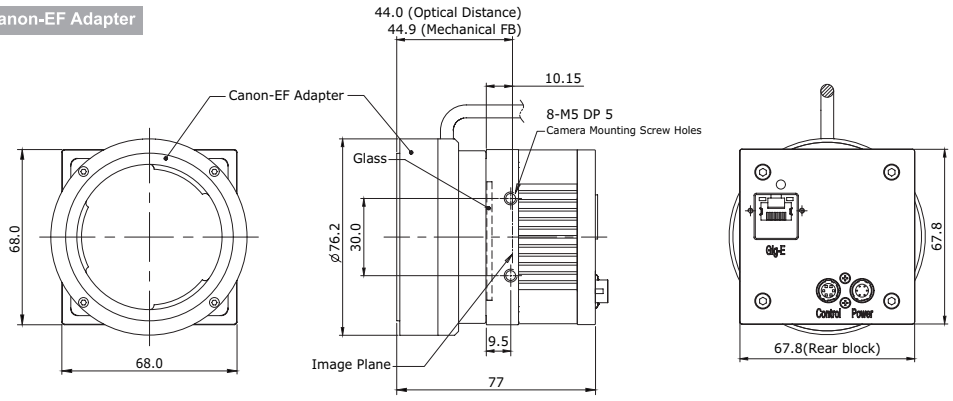
VX-25MG F-mount



VX-25MG Interface for Canon-EF Adapter



VX-25MG Canon-EF Adapter



∗. Vieworks does not provide a Canon-EF Adapter (Birger Mount).

For more information please contact local distributor or
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