

Manta

G-032



- Versatile VGA camera
- Power over Ethernet optional
- Angled-head and board level variants
- Video-iris lens control

基本描述

VGA machine vision camera with GigE Vision interface

Manta G-032 is a value packed GigE Vision camera with VGA resolution. Manta G-032 is offered in both monochrome and color models. It incorporates the high quality Type 1/3 (6.0 mm diagonal) Sony ICX424 CCD sensor. At full resolution, this camera runs 80.7 frames per second. With a smaller region of interest, higher frame rates are possible. Manta is one of Allied Vision's versatile GigE Vision cameras with a wide range of features. Particular highlights are the three look-up tables, sophisticated color correction capabilities, a robust metal housing, and many modular options. By default monochrome models ship with protection glass B 270 (ASG) and color models ship with an IRC Hoya C-5000 IR cut filter.

Benefits and features:

- Monochrome (G-032B) and color (G-032C) models
- GigE Vision interface with Power over Ethernet option
- Screw mount RJ45 Ethernet connector for secure operation in industrial environments
- Supports cable lengths up to 100 meters (CAT-5e or CAT-6)
- Comprehensive I/O functionality for simplified system integration
- Popular C-Mount lens mount
- Easy camera mounting via standard M3 threads on top and bottom of housing or optional tripod adapter
- Easy software integration with Allied Vision's [Vimba SDK](#) and compatibility to the most popular [third party image-processing libraries](#).

Options:

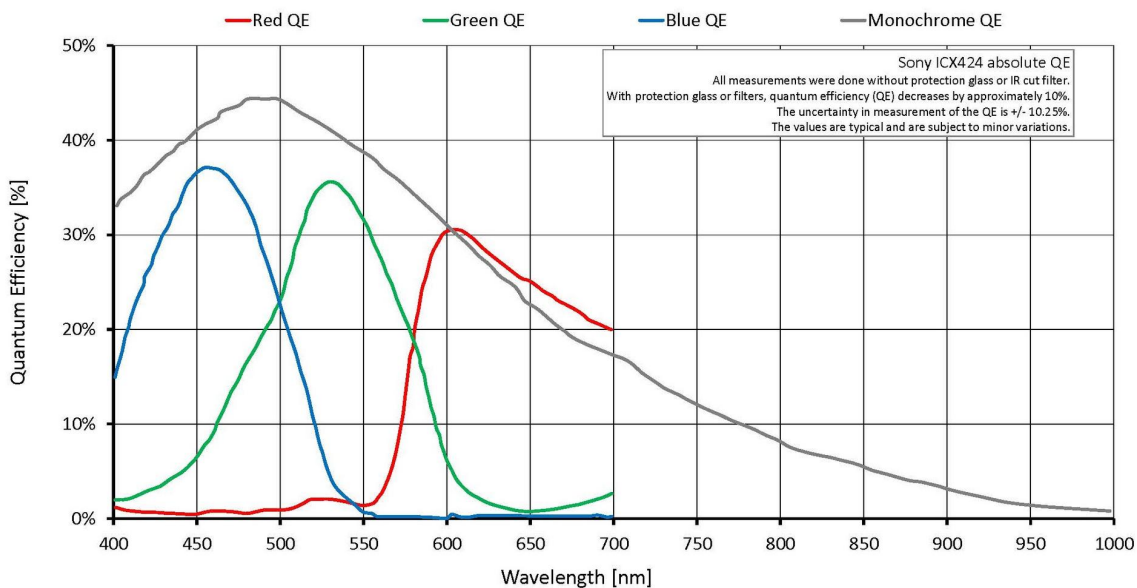
- Available with Power over Ethernet (PoE) compliant interface
- Available with CS-Mount or M12-Mount adapter
- Available with Protection glass B 270 (ASG), IRC type Jenofilt 217 (IR cut filter), IRC Hoya C-5000 (IR cut filter), IRP RG715 (IR pass filter), IRP RG830 (IR pass filter)
- Available with various angled-head housings or board level version
- Available with white medical design

See the [Modular Concept](#) for lens mount, housing variants, optical filters, case design, and other modular options. See the [Customization and OEM Solutions](#) page for additional options.

性能参数

| | |
|----------------|--|
| Manta | G-032 |
| 接口 | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional |
| 分辨率 | 656 (H) × 492 (V) |
| 传感器 | Sony ICX424 |
| 传感器类型 | CCD Progressive |
| 传感器尺寸 | Type 1/3 |
| 像元尺寸 | 7.4 μm × 7.4 μm |
| 标准镜头接口 | C-Mount |
| 最大满帧帧率 | 80.7 fps |
| ADC | 12 bit |
| 缓存 (RAM) | 32 MByte |
| 非易失性内存 (Flash) | 192 KByte (for selected models only) |
| | 输出 |
| Bit位数 | 8-12 bit |
| 黑白像素格式 | Mono8, Mono12, Mono12Packed |
| YUV彩色像素格式 | YUV411Packed, YUV422Packed, YUV444Packed |
| RGB彩色像素格式 | RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed |
| 原始像素格式 | BayerRG8, BayerRG12Packed, BayerRG12 |
| | 通用输入输出(GPIOs) |
| 光耦 I/Os | 2 inputs, 2 outputs |
| RS232 | 1 |
| | 工作条件/尺寸 |
| 工作温度 | +5 °C to +45 °C ambient (without condensation) |
| 电源要求 (DC) | 8 to 30 VDC; PoE |

| | |
|---------------------|---|
| Manta | G-032 |
| 功耗 | 3.6 W at 12 VDC; 4.2 W PoE |
| 重量 | 200 g; 210 g (PoE) |
| 尺寸(L × W × H in mm) | 86.4 × 44 × 29 (including connectors) |
| 符合规范 | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B; CAN ICES-003 |



特性

Image optimization features:

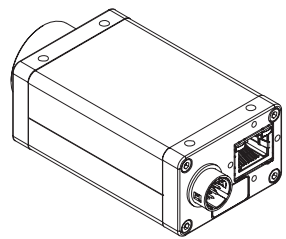
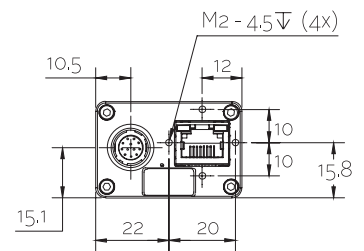
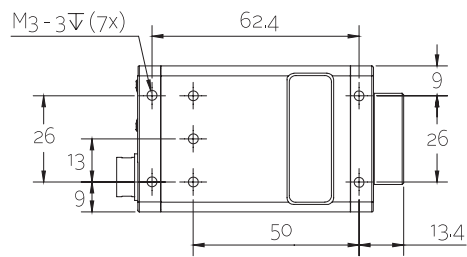
- Auto gain (manual gain control: 0 to 36 dB; 1 dB increments)
- Auto exposure (26 μ s to 60 s; 1 μ s increments)
- Auto white balance (G-032C only)
- Binning
- Black level (offset)
- Color correction, hue, saturation (G-032C only)
- Gamma correction
- Three look-up tables (LUTs)
- Region of interest (ROI), separate ROI for auto features



Camera control features:

- Auto-iris (video type)
- Event channel
- Image chunk data
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Non-volatile memory 192 KByte (for selected models only)

外形尺寸





应用场景

Manta G-032 is suitable for a wide range of applications including:

- Semiconductor inspection
- Food inspection
- Printing marks control
- Pharmaceutical inspection
- Ophthalmology
- Machine vision
- Intelligent traffic solutions (ITS)/Traffic monitoring