



Manta

G-145-30fps

- 30.1 fps at full resolution
- PoE optional
- Angled-head and board level variants
- Video-iris lens control

简化多相机应用设置

搭载千兆网接口的模块化机器视觉相机

Manta G-145-30fps 搭载 Sony ICX285 传感器，在 30.1MP 分辨率下速度可达 1.4 帧/秒。

Manta 是 Allied Vision 用途最广泛的千兆网口相机系列。该系列相机可提供最丰富的图像传感器选项，并且凭借先进的功能组合简化了多相机应用设置。模块化硬件概念更是让 Manta 相机可提供近乎无限的配置选择，以灵活满足各种应用的需求。

Easy software integration with Allied Vision's **Vimba Suite** and compatibility to the most popular **third party image-processing libraries**.

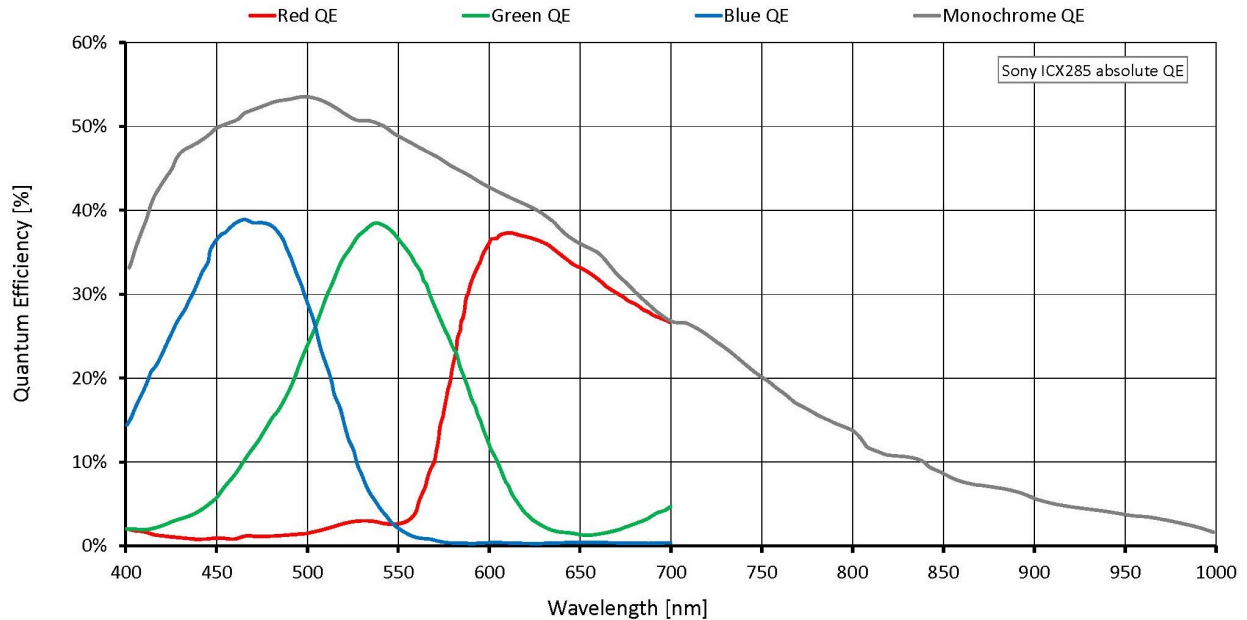
See the **Modular Concept** for lens mount, housing variants, optical filters, case design, and other modular options. See the **Customization and OEM Solutions** webpage for additional options.

性能参数

Manta G-145-30fps	
接口	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
分辨率	1388 (H) × 1038 (V)
传感器	Sony ICX285
传感器类型	CCD Progressive
快门种类	Global shutter
传感器尺寸	Type 2/3
像元尺寸	6.45 μm × 6.45 μm
Lens mounts (available)	C-Mount, CS-Mount, S-Mount

Manta G-145-30fps	
最大满帧帧率	30.1 fps
ADC	12 Bit
缓存 (RAM)	32 MByte
非易失性内存 (Flash)	192 KByte (for selected models only)
成像性能	
成像性能数据是基于欧洲机器视觉协会 (EMVA) 1288 发布的 3.1 版图像传感器和像机特征描述标准中的评估方法。测量值是在没有光学滤波片的全分辨率下，测量单色模型的典型值。请联系销售或工程师了解更多信息。	
在波长为 529nm 下，量子转换效率	54 %
暗噪声	11.5 e ⁻
饱和电子数	16300 e ⁻
动态范围	62.6 dB
绝对灵敏度阈值	12.0 e ⁻
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 AUX or IEEE 802.3af PoE
功耗	External power: 4.5 W at 12 VDC Power over Ethernet: 5.3 W
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-3 (B)

量子转换效率



特性

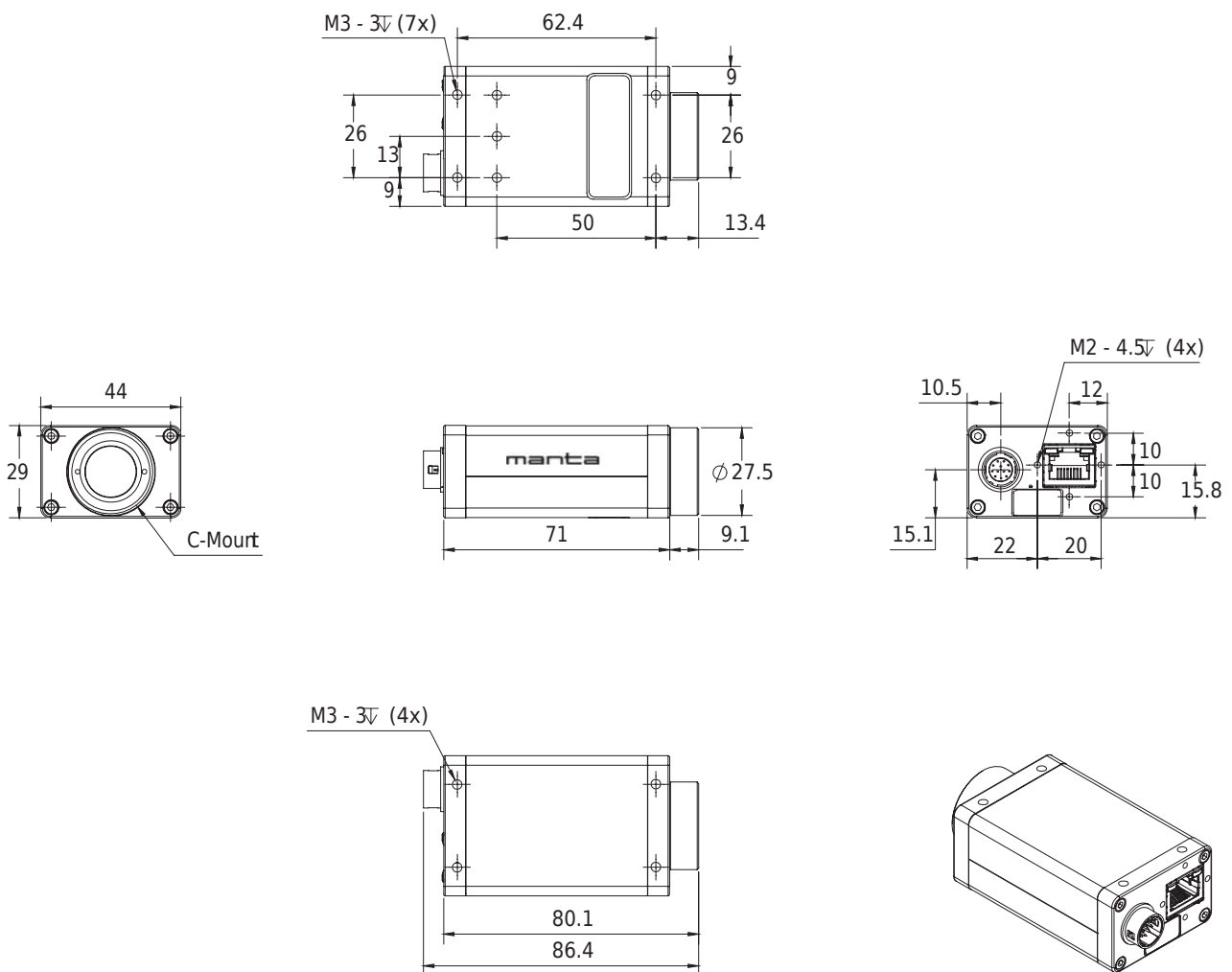
Image optimization features:

- Auto gain (manual gain control: 0 to 33 dB; 1 dB increments)
- Auto exposure (38 μ s to 60 s; 1 μ s increments)
- Auto white balance (G-145C-30fps only)
- Binning
- Black level (offset)
- Color correction, hue, saturation (G-145C-30fps only)
- Decimation
- Gamma correction
- Three look-up tables (LUTs)
- Region of interest (ROI), separate ROI for auto features
- ReverseX (G-145B-30fps only)

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-145-30fps is a fast GigE camera for machine vision and medical imaging applications. Its sensor is very sensitive in the visible spectrum, and also suitable for applications which require NIR (near infrared) sensitivity. Like G-145, the 30fps version is also available as board level version with separate sensor head (up to 200 mm distance to camera mainboard).

- Machine vision
- Science and research
- Medical and healthcare
- Ophthalmology
- ITS/Traffic monitoring
- ... and many more

Application case studies:

- **Safe Sex Starts With Virtual Pillow Fight** Interactive billboard using Manta camera promotes “Designers Against AIDS” charity by inviting passers-by to join pillow fight with Belgian top model Hannelore Knuts.