



Manta G-223 NIR



Description

Preliminary

The Manta G-223B NIR is an NIR optimized GigE camera with a 2/3" CMOSIS CMV2000 sensor. At full resolution, it runs 50 fps. The Manta G-223B NIR offers the same modular options as the other Manta camera models (for example, angled head, board level version, and PoE).

- CMOSIS CMV2000 (type 2/3), 2.2 Megapixels (monochrome)
- Sync modes
 - Trigger ready, trigger input, exposing, readout, imaging, strobe, GPO
- Trigger
 - External trigger event: rising/falling/any edge, level high/low
 - External trigger delay: 0 to 60 s in 1 μ s increments
- Modular options
 - Various IR cut/pass filters
 - Board level version
 - Angled head
 - White medical housing
 - PoE (Power over Ethernet)

Specifications

Manta		G-223 NIR	
Interface	IEEE 802.3 1000baseT		
Resolution	2048 x 1088		
Sensor	CMOSIS CMV2000		
Sensor type	CMOS Progressive		
Sensor size	Type 2/3		
Cell size	5.5 µm		
Lens mount	C-Mount		
Max frame rate at full resolution	50 fps		
A/D	12 bit		
On-board FIFO	64 MB		
Output			
Bit depth	8-12 bit		
Mono modes	Mono8, Mono16, Mono12 packed		
Raw modes	Bayer8, Bayer16, Bayer12 packed		
General purpose inputs/outputs (GPIOs)			
Opto-coupled I/Os	2 inputs, 2 outputs		
RS-232	1		
Operating conditions/Dimensions			
Operating temperature	+5 °C ... +45 °C		
Power requirements (DC)	8 V - 30 V		
Power consumption (12 V)	tbd		
Mass	tbd		
Body Dimensions (L x W x H in mm)	86.4 x 44 x 29 mm incl. connectors		
Regulations	CE, FCC Class B, RoHS		



Smart features

- ROI (Region of Interest Readout)
- Gain, exposure
- 3 Look-up tables (LUTs)
- Gamma (0.25 - 4.0)
- DSP subregion (selectable ROI for auto features)
- Binning
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- IEEE 1588 (PTP, Precision Time Protocol)
- Event channel
- Chunk data
- Storable user sets

Applications

The Manta G-223B NIR is a robust, flexible NIR optimized camera with a sensitive CMOSIS CMV2000 sensor.

Typical applications:

- Multimedia and entertainment
- Machine vision
- Security and surveillance
- Metrology and inspection systems
- Industrial image processing