SPECIFICATIONS | **PRELIMINARY DATA SHEET**

MV4-D9344-G01-GT

65MP HIGH-RESOLUTION CAMERA WITH 2.3” CMOS SENSOR

General	
Type	2.3” CMOS, global shutter Sensor: GPixel GMAX 3265 (65 MP)
Free run frame rate, full resolution	18 frames / sec. @ 8 bit / 10 GigE connection
Optical area	29.9 (h) x 22.4 (v) mm, 37.4 mm diagonal
Pixel size	3.2 µ, square, CDS, mono and Bayer RGB
Active pixels	9.344 (h) x 7.000 (v)
Read-out modes	1x2*, 2x1*, 2x2*, 4x4*, 8x8* subsampling (mono and color*)
EMVA 1288 Parameters	
Absolute responsivity (mono)	to be measured
Maximum SNR (mono)	to be measured
Sensor	
ADC resolution	12 bit
Max. frame Rate	31 fps @ 12 bit
SNR	43 dB (134:1)
Full well capacity	10.9 ke-
Dark current	5.3 e- / pixel / sec. @ 40 C
Dynamic range	> 62.3 dB, 10 bit
Quantum efficiency	< 65.3 % @ 550 nm monochrome sensor
FPN	< 20 e-
PRNU	1.7 %
CRA	> 80 % @ +/- 15°
Pixel Pipeline Output	
Mono	8 bit, 10 bit, 12 bit
Color	8 bit, 10 bit, 12 bit, 14 bit*, 16 bit* Bayer RAW / YUV422* / RGB24 / 30 / 36*
Gain | Offset	
Analog	Black level, calibrated*
Digital	Master Gain (0 .. ~24 dB), 48 dB Bitshift*
Exposure	
	30 µs – 466 ms (10 µs* – 30 s*)
I/O Interface	
	Input, Trigger, Shaft Encoder, TTL, RS422, HTL, dHTL Output, Strobe, 2 Open Drain, 1 Fast TTL
Trigger Modes	
	Single shot, burst, level controlled exposure

MV4-D9344-G01-GT

65 MP high-resolution camera with 18 fps.

2.3“ global shutter CMOS sensor.

NIR enhanced version available on demand.

Lens mount M42 x 1 available, C mount, F mount and other lens mount adapters on request.

Fast readout with a cost effective standard 10 GigE interface. Up to 300 m long cables.

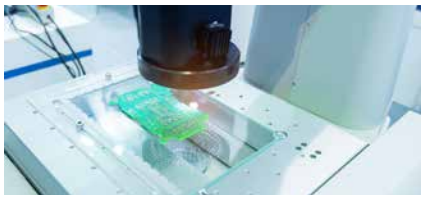
Robust Industrie 4.0 design for an excellent total cost of ownership.

Modular design for fast integration into your application.

Internal data processing and embedded solutions available.

MV4-D9344-G01-GT

Exposure Modes	
	Free run, Interleave, single timed and single trigger level controlled
Main Interface	
	10 GigE, backwards compatible to N-BaseT and 1 GigE 10 GigE auto negotiation*, CXP*
Software Feature	
	GigE Vision 1.2 | 2.2* PTP precision timing protocol (IEEE1588)* Auto gain*, exposure*, white balance* Single ROI, multi ROI*, flip*, mirror, sequencer* Readout optical black area* Sensor and camera temperature
Housing	
	Lens mount M42 x 1 (12 mm distance sensor -> lens), C mount, F mount, TFL mount adapters available on demand Dimensions Front 59 mm x 59 mm x 103,2 mm Mounting 8x M5 Weight 450 g Mono: Protection glass | Color: IR cut @ 660 nm
Power	
	12 – 24 V ± 10 %, < 15W, 17 Pin M12 PoE 802.3af class 4 (25W)
Temperature	
	Operating 0 to 45 °C ambient | Extended temperature* Storage -20 to 70 °C ambient
Humidity	
	20 – 80 % non-condensing
Regulations	
	CE class A (B*), FCC class A (B*), RoHS, UL, WEEE



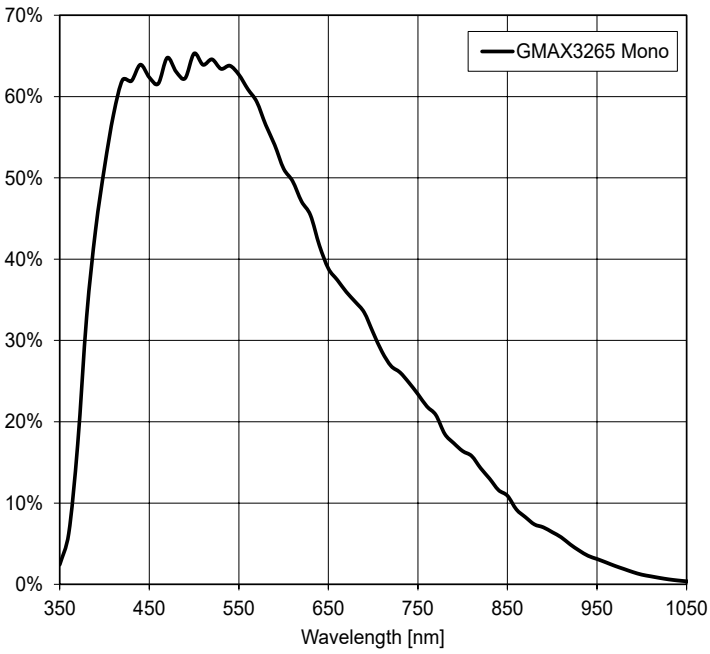
AOI
PCB Inspection

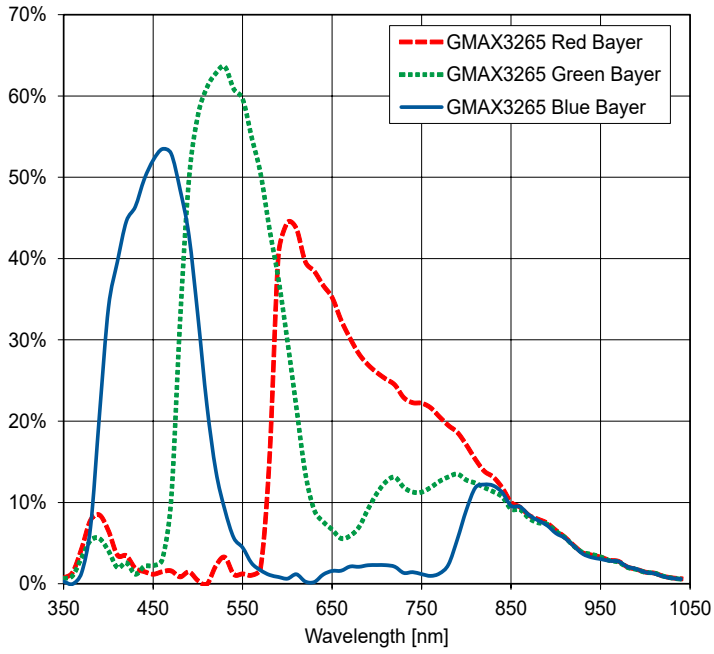
AUTOMOTIVE
Exterior / Interior Quality

RAILWAY
Obstacle Recognition

FILM SCANNING
Wet and Dry Processing

Quantum Efficiency vs. Wavelength (Typical) – Ta = 25 °C





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*On demand / customer project
Version 1.2 | June 23, 2021
This specification may change without notice