

# DiViINA LM2

## Line Scan Camera



## Perfectly balanced

### Low price, high value

#### Key Features

- ❖ Sensor range: 1024 to 4096 Pixels, 10  $\mu\text{m}$  or 14  $\mu\text{m}$
- ❖ Interface: Camera Link, (Base configuration)
- ❖ Mechanics: 60x60x45 mm (w, h, l)
- ❖ Data rate: up to 40 M pixels/s
- ❖ Output format: 2 taps 20 MHz
- ❖ Bit depth: 8 bits
- ❖ Cost effective and easy to use
- ❖ Fully configurable by the user with CommCam software

#### Typical Applications

- ❖ Web inspection  
i.e. wood, paper, metalurgy
- ❖ Parts inspection or sorting  
i.e. cotton, rice, food
- ❖ General machine vision inspection

DiViINA is a cost efficient CCD line scan camera family with Camera Link interface. Featuring e2v's own high performance linear CCD sensors from 1024 pixels up to 4096 pixels, as used in the world leading AViVA cameras, DiViINA cameras offer high image quality with user-friendly simplicity. DiViINA is the perfect candidate for mid range machine vision applications.

## Detailed Specifications

Sensor Characteristics				
Resolution	pixels	1024	2048	4096
Pixel Size (square)	µm	10 or 14	10 or 14	10
Maximum Line Rate	kHz	35,7	18,1	9,5

Functionalities (Programmable by Control Interface)	
Gain	0 to 35 dB (0.035 dB steps)
Offset	0 to 63 LSB
Exposure Time	Up to 65 ms
Trigger Mode	Free Run, External Trigger
Regulatory	RoHS, CE compliant

Radiometric Performances		
Bit Depth	bits	8
Spectral Range	nm	250 - 1100
Non-linearity	%	< 1
Dynamic Range	dB	58

Mechanical and Electrical Interface		
Size (w x h x l)	mm	60 x 60 x 45
Lens Mount		M42 x 1
Optional Lens Adaptor		C, F
Sensor Alignment	µm	Better than ± 200
Power Supply	V	Single 12 to 24
Power Dissipation	W	< 5
Operating Temperature	°C	0 to 65 (front face)
Storage Temperature	°C	-40 to 70

Connectors	
Power	HR10 6-pin
Control & Data: Camera Link	MDR 26-pin



## Overview of e2v's Line Scan Camera offer

Commercial Name	M/C	Max Data Rate M Pixels/s	Interface	Resolution	Bit Depth
AViVA SM2	Monochrome	60	CL/LVDS	512 to 4096	up to 12 bits
AViVA SC2	Colour	60	CL/LVDS	4096	up to 12 bits
AViVA UM2	Monochrome	62	GigE	512 to 4096	up to 12 bits
AViVA UC2	Colour	62	GigE	4096	up to 12 bits
AViVA UM4	Monochrome	160	CL	8192	up to 12 bits
AViVA UM8	Monochrome	320	CL	12 288	up to 12 bits
ELiXA UC4/UC8	Colour	320	CL	4 x 4096	up to 12 bits
ELiXA 3V	Monochrome	320	CL	3 x 4096	up to 12 bits
ELiXA 4S	Monochrome	80	CL	4 x 4096	up to 12 bits
DiViINA LM2	Monochrome	40	CL	1024 to 4096	8 bits

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