

CMOS Camera LP 640

Instant view – digital with VGA resolution

Übersteuerungsfeste CMOS Kamera
mit 640 x 480 Bildpunkten

8, 10 oder 12 Bit Auflösung, 50 dB Dynamik

30 Bilder/sec, Windowing und Subsampling
für höhere Bildraten

Kompakt mit schlankem Datenkabel

Optionaler VGA-Ausgang

Niedrige Leistungsaufnahme

Blooming resistant CMOS Camera
with 640 x 480 optical pixels

8, 10 or 12 bit Resolution,
50 dB Dynamic Range

30 frames/sec, Windowing and
Subsampling for higher Frame Rates

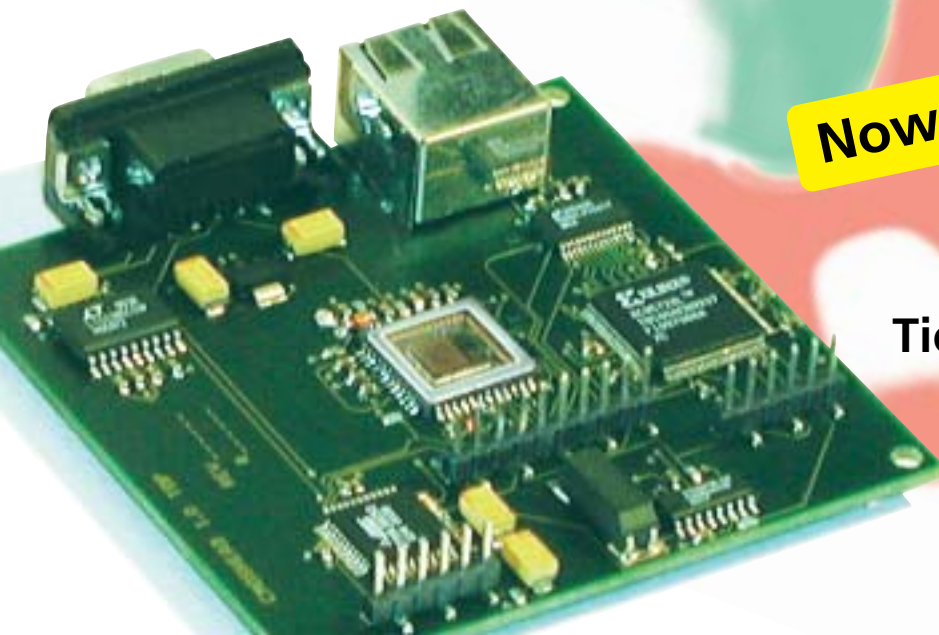
Compact Camera with
thin data cable

Optional VGA Output

Low Power Consumption



Now with camera link



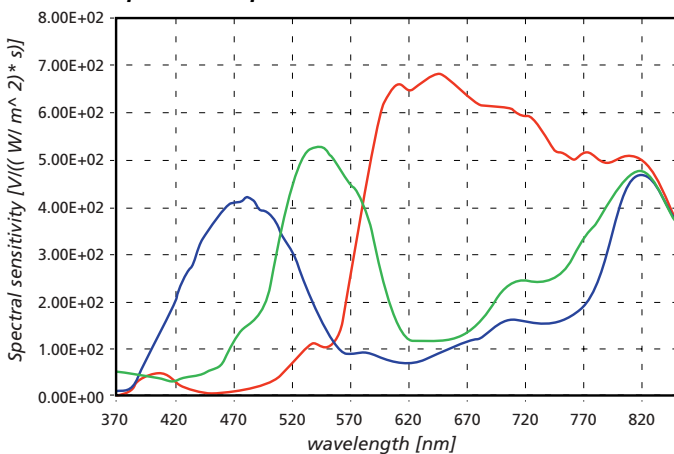
Tichawa *Vision* GmbH



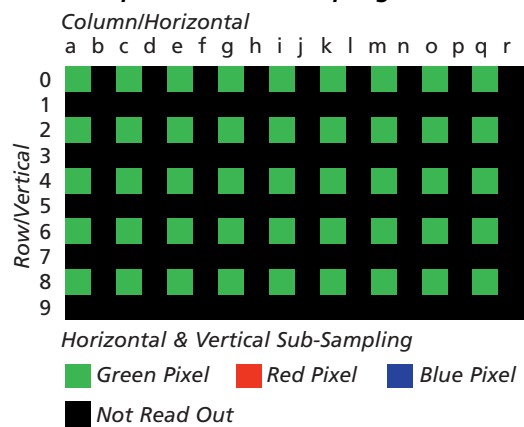
Tichawa Vision LP640 CMOS Camera with VGA Resolution - Specifications

Camera	LP640 Standard	LP640 Enhanced	Note
Sensor	LM9617 (CMOS)	LM9617 (CMOS)	Monochrome
Sensor	LM9627 (CMOS)	LM9627 (CMOS)	Color
Optical Pixels	640 x 480	640 x 480	H x V
Sensor Size	1/3 inch	1/3 inch	4.86 x 3.66 mm
Pixel Spacing	7.5 x 7.5 μm	7.5 x 7.5 μm	47% Fill Factor
Data Rate	12	12	MHz
Line Rate	15	Programmable	kHz
Frame Rate	30	Programmable	Hz
ADC Resolution	10	8/10/12	Bit
Dynamic Range	50	50	dB
Trigger/Expo Ctrl	no/yes	yes/yes	Rolling Shutter
Subsampling/ROI	no/no	yes/yes	Region of Interest
PGA	yes (0..15 dB)	yes (0..15 dB)	Prog. Gain
AutoZero	yes (digital)	yes (digital)	
Modes	freerunning Prog. Scan	freerunning/trigg. Prog.Scan/Interlaced	
Parallel TTL Out	yes	yes	max. 25 cm length!
Serial RS-644 Out	yes	yes	opt. Channel Link
Power VDC/W	5 VDC/0.5 Watt	5 VDC/0.5 Watt	w/o Channel Link
Optical Port	M42/Nikon/C	M42/Nikon/C	
Mech. Dimensions	80 x 80 x 25 mm	80 x 80 x 25 mm	without optics
Op. Temp. Range	0..50° C	0..50° C	
CE approval	yes	yes	

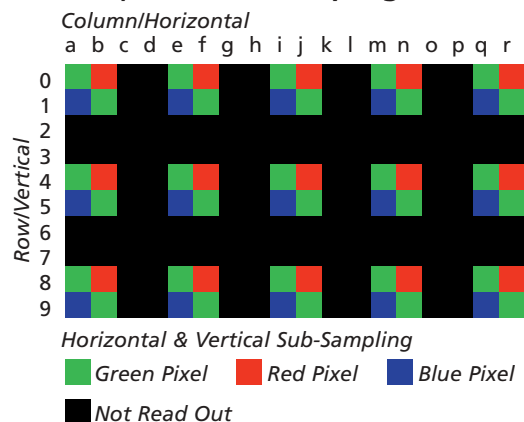
Spectral Response Curve



Example of 2:1 Sub-sampling



Example of 4:2 Sub-sampling



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