

Intelligent camera IC 640/IC 1280/IC 128

Robuste Kamera und Auswerterechner in kompaktem Gehäuse
Solid camera and processor in compact housing

VGA- oder Megapixelsensor in Schwarz/Weiß
oder Farbe, bis 110 dB Dynamikbereich

Verwendbar als Flächenkamera, mit ROI oder als Zeilenkamera

Schnittstellen für Kommunikation: RS-232, CAN, IEEE-1284, VGA

Analoge Ein- und Ausgänge ± 10 Volt

24 Volt Ein- und Ausgänge, überlastfest

Schutzart IP65

VGA or Megapixel Sensor
in Black/White or Colour,
up to 110 dB Dynamic Range

May be used as area scan,
ROI or line scan camera

Multiple Interface:
RS-232, CAN, IEEE-1284, VGA

Analog I/O ± 10 Volts

24 Volt protected I/O

Protected to IP65



Tichawa Vision Intelligent Cameras IC 640, IC 1280 and IC 128 - Specifications

Camera	IC 640	IC 1280	IC 640 HD	IC 128	Note
Sensor	monochrome	monochrome	monochrome	monochrome	
Sensor	colour	colour	-	-	Bayer Pattern
Optical Pixels	640 x 480	1280 x 1024	640 x 480	96 x 118	H x V
Sensor Size	1/3 inch - 4,8 x 3,6mm	1/2 inch - 7,7 x 6,1mm	1/3 inch - 4,8 x 3,6mm	1/5 inch - 2,36 x 1,92mm	
Pixel Spacing	7,5 x 7,5 µm - 47%	6,0 x 6,0 µm - 49%	7,5 x 7,5 µm - 47%	20 x 20 µm - 47%	Fill Factor
Frame Rate	30	18	30	580	fps
ADC Resolution	12	10	12	8	Bit
Dynamic Range	57	55	62 / 110	48	dB
Trigger/Expo Ctrl	yes/yes	yes/yes	yes/yes	yes/yes	
Subsampling	yes	yes	yes	no	Region of Interest
PGA	yes (0 -15 dB)	yes (0 - 16 dB)	yes (0 -29 dB)	yes (0 -28 dB)	Prog. Gain
ROI min/max	1 x 1 / 640 x 480	1 x 1 / 1280 x 1024	1 x 1 / 640 x 480	no	2 x 2 min. for colour
Auto Zero	yes (digital)	yes (digital)	yes (digital)	yes (digital)	
Modes	freerunning/triggered Prog.Scan/Interlaced	freerunning/triggered Prog.Scan/Interlaced	freerunning/triggered Prog.Scan/Interlaced	freerunning/triggered Prog.Scan/Interlaced	
CPU and I/O					
CPU	16 Bit, 20 MIPS	16 Bit, 20 MIPS	16 Bit, 20 MIPS	16 Bit, 20 MIPS	with MAC
Analog Inputs	4 x 10 Bit, ±10 Volt	4 x 10 Bit, ±10 Volt	4 x 10 Bit, ±10 Volt	4 x 10 Bit, ±10 Volt	
Analog Outputs	3 x 12 Bit, ±10 Volt	3 x 12 Bit, ±10 Volt	3 x 12 Bit, ±10 Volt	3 x 12 Bit, ±10 Volt	
Digital Inputs 24 V	4, opt.8	4, opt. 8	4, opt.8	4, opt.8	
Digital Outputs 24 V	10	10	10	10	
Digital Inputs TTL	17	17	17	17	17 I/O maximum
Digital Outputs TTL	17	17	17	17	17 I/O maximum
RS-232	1	1	1	1	
CAN 2.0 Interface	1	1	1	1	optional
VGA	800x600, 65536 colours	800x600, 65536 colours	800x600, 65536 colours	800x600, 65536 colours	optional
LED control output	yes	yes	yes	yes	TTL
Environmental					
Operation Temp. Range	0 ... 50°	- 10 ... + 50°	- 40 ... + 85°	- 40 ... + 85°	case temperature
Power Supply	12 - 24 V	12 - 24 V	12 - 24 V	12 - 24 V	
Size - mm	ca.100 x 65 x 43	ca. 100 x 65 x 43	ca.100 x 65 x 43	ca.100 x 65 x 43	without optics
Weigth - g	ca. 550 g	ca. 550 g	ca. 550 g	ca. 550 g	
Software					
Libraries (I/O, Sensor, Screen,Hardware Test)	yes	yes	yes	yes	
Application Programs	yes	yes	yes	yes	



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