Product overview – vision sensors and systems





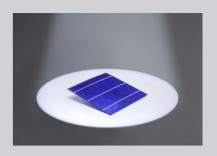
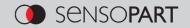
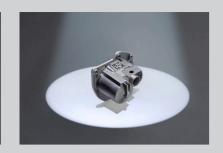


Image rate per second V10 V20 S0 - S0 40 40 - 40 20 S0 - S0 - S0 Number of jobs detectors 2 32 max. 255 max. 255 x 255	ensors VISOR
And classification Additional colour information Solar cells	V10 St
Functions Resolution in pixels V10 736 x 480 Mono	
Resolution in pixels V10	
Resolution in pixels \(\text{V20} \) - 1280 \times 1024 \text{ Mono} - 1280 \times 1024 \text{ Colour } - - -	
Image rate per second V10 V20 S0 - S0 40 40 - 40 20 S0 - S0 - S0 Number of jobs detectors 2 32 max. 255 max. 255 max. 255 2 32 max 255 max. 255	n pixels V10 736 × 4
Number of jobs detectors 2 32	n pixels V20 –
Position tracking	er second V10 V20 50 -
Position tracking	iobs I detectors 2 L 32
(X-,Y-translation, orientation) Pattern comparison (X-,Y-translation) V	
Pattern comparison (X-,Y-translation) Grey threshold Contrast V V V Serightness Contour only Contour only	
Grey threshold ✓	nparison /
Brightness ✓ <td< td=""><td></td></td<>	
Interfaces Inputs outputs 2 4 4	✓
Interfaces Inputs outputs 2 4 4	✓
Inputs outputs 2 4 4	ol Contou
Freely definable switching outputs/inputs, PNP or NPN 2 4 2 4 2 4 Encoder input - ✓ - ✓ - ✓ - ✓ - ✓ - ✓ - ✓ ✓ - ✓ ✓ - ✓ ✓ ✓ ✓ - ✓	
outputs/inputs, PNP or NPN Encoder input - - - - I/O expansion - - - - - RS 422 RS 232 - -	outs 2 4
/O expansion	able switching 2 uts, PNP or NPN
RS 422 RS 232	ut –
Ethernet J<	
EtherNet/IP	
Lens V10 integrated, 6 mm 12 mm 25 mm V20 integrated, 12 mm - V V V V V V V V V	
V10 integrated, Image: Contract of the contract	/
6 mm 12 mm 25 mm	
	nm 25 mm
C-mount –	ted, 12 mm –
	-

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VISOR® Code Reader				
V10 Standard	V10/V20 Advanced	V20 Professional (OCR)		
Code reading				
Data code Bar code - 736 × 480 Mono - 50 - 8 1 -	Data code Bar code - 736 × 480 Mono 1280 × 1024 Mono 50 40 max. 255 max. 255 ✓	Data code Bar code Optical character recognition (OCR) - 1280 × 1024 Mono - 40 max. 255 max. 255		
- - - - - 2 4 2 - - - - - - - - - - - - - - - - - -	✓ ✓ ✓ ✓ (not with data codes and bar codes) 2 4 4 ✓ ✓ ✓ ✓ ✓	/ / / (not with data codes, bar codes and OCR) 2 4 / / / / /		
-	✓ ✓	✓ ✓		

Features/sensors	Eyesight Vision-System		
	V10/V20	V10C/V20C (Colour)	
Functions			
Resolution in pixels V10	736 x 480 Mono	736 × 480 Colour	
Resolution in pixels V20	1280 x 1024 Mono	1280 x 1024 Colour	
Image rate per second V10 V20	50 40	40 20	
Number of jobs detectors	max. 40 Mbyte	max. 40 Mbyte	
Position tracking	✓	✓	
Commands			
Image/camera	Image capture, camera sett	ings	
Colours	Select colour channel, colour inspection, colour filter (only for V10C/V20C)		
Pre-processing	Calibration and position tracking, correct brightness, remove background, filter functions		
Inputs/outputs	Test input, set output, access INI file, text, data transfer – serial, data transfer – LAN (text line)		
Visualisation	Image transfer		
Measurement	Image information, area test, list of points, determine points, determine lines, calculate circle, calculate distance, line distance, calculate cross-section, measure gap width, calipers (hor./vert./free), calculate angle, determine warpage point		
Program control	Stop watch, control of sequence and loop options, run subprogram, access variable, evaluation		
Pattern/contour comparison	Count objects, inspect contour, track contour, correlation, Smart Match (optional)		
Scanning	Scan points, scan points (circular scanner), edge counter (straight), find edges (projected), search ring for counting		
Access to libraries	Script interpreter		
lara ferra			
Interfaces	2 4	214	
Inputs outputs Freely definable switching	2 4	2 4	
outputs/inputs			
I/O expansion	/	√	
RS422 RS232	111	√ √	
Ethernet	✓	✓	
Lens			
V10 integrated, 6 mm 12 mm	✓ ✓	√ √	
V20 integrated, 12 mm	✓	✓	
C-mount	✓	✓	

More information	
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