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ZEBRA VS40 SMART CAMERA

VS40-WA20S4-2C00W VS40, WIDE ANGLE, 2.3 MP, RED

- Ease of Setup with Auto-Tune: The VS40 offers a onebutton Auto-Tune feature that simplifies setup, optimizing image quality for reliable inspections straight out of the box
- IoT and Cloud-Ready: Equipped to send data to Zebra's Savanna[™] cloud service, the VS40 supports compliance and image storage without requiring local server infrastructure
- Power Over Ethernet (PoE): The device can be powered via Ethernet, reducing setup complexity and removing the need for additional power supplies
- Integrated with Zebra Aurora: Managed by Zebra Aurora software, the VS40 allows users to control multiple machine vision and industrial scanner devices through a single platform, offering tools for experts and guidance for beginners
- Advanced Lighting and Optics: Featuring integrated, customizable lighting options (such as red, blue, and infrared LEDs) and a rugged, industrial-grade design, the VS40 achieves high-quality imaging suitable for challenging environments

PRODUCT DESCRIPTION

The VS40 can be used in almost any inspection application on a production line, thanks to its wide range of Machine Vision tools. Tailor the device to your application with a wide range of lenses, lighting, I/Os and filters. In addition, you can upgrade to more advanced features by simply purchasing a software license. With Zebra Aurora's powerful software platform, you can easily set up, deploy and run your VS40 smart cameras.

TECHNICAL DATA

Focus

Liquid lens



Interface out	Ethernet with POE, Serial, USB & Industrial Protocols	
Lighting	Red	
Resolution	2.3 MP	
Size	54.0 x 64.0 x 91.4	
Software performance	Sensor Toolset	
Type of lens	Wide angel	
Type of scanner	Smart Camera	

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 Machine Vision Teil Ohjert Loute Brightness Contrast Brightness Contrast Brightness Distance Tool Advanced Pattern Biob Opticut Character 1 Find Chrise Caliger Teol Find Chrise Caliger Teol Fitters Drep Learning OCI Peotnotes Description OCV)

VS40-SR30" FOV Let	15		VS40-WA46' FOV L	ins	
Symbology Resolution	Near	Far	Symbology Resolution	Near	Far
5 mil Code 128	310.02 cm	24 m./61 cm	5 mil Code 128	3 H./8 cm	14 in./36 cm
10 mil Code 128	3 in.18 cm	49 in./124 cm	10 mil Code 128	3 in /8 cm	30.in./76 cm
15 mil Code 128	3 in Res	20 in./176 cm	15 mil Code 128	3 H.B.C	42 in /107 cm
20 mil Code 128	3 in.78 cm	92 HJ234 ON	20 mil Code 128	3 in./8 cm	56 in /142 cr
5 mil DataMatrix	3 in/8 cm	t3 in/33 cm	5 mil DataMatrix	3.9./8.09	EIA/2010
50 mil DataMatrix	3 in./8 cm	28 m/71 cm	10 mil DataMatrix	3 H./8 cm	18 in /45 cm
15 mil DetaMatrix	3 m./8 cm	40 in./902 cm	15 mil DataMatrix	3 in /8 cm	27 m/69 on
30 mil DuteMatrix	3 in.18 cm	25 in./928 on	30 mil DataMatrix	3 in /5 cm	32 in /132 cm

xS40 Connections



Ethernet Connector



		Description	
1	TP1+		
2	TP5-		
3	TP2+		
4	TP2-		
5	TP4+		
6	TP4-		
7	TP3-		
8	TP3+		
SHELL	SHIELD		

External Light Connector



		Description
1	Brown	DC_OUT / GPIO8
1	White	GPI07
3	Blue	GND
4	Black	GPI06
5	Grey	ANALOG_OUT
SHELL	Bare	SHIELD

Power and IO Connector



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		Description
1	Yellow	GP102
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GPIO4
5	Violet	GPI05
6	White/Violet	COMMON_IN
7	Red	DC_IN
	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIOD
	Blue	GPI01
12	Grey	GPI03
SHELL	Bare	SHIELD

Tool	Description	Senser	Standard	Advanced
Object Locate	Find high contrast features			•
Pixel Counter	Count powers with a set-lipixen grey level in a specific area			
Brightness	Provide the average brightness for an area.		1.1.1	
Contrast	Provide the average contrast for an area		(*)	•
Edge Tool	Find edges for flaturing and presence/absence		•	
Distance Tool	Measure the distance between two existing tool results.	•		•
Advanced Pattern	First challenging leatures		•	
Blob .	First, sort and sourt areas of joined pixels with a similar gray level	L sort and court areas of joined poerts with a similar grey level		•
Optical Character Verification (OCV)	Impacts the quality of text of logos			
Find Circle	Find and measure circles.			
Caliper Tool	Find and measure the distance between two edges.	•		
Fiters	Enhance image quality for more robust impaction			
10/20/0PM	Read 10, 20 and DPM barcodes			
Deep Learning OCR	Deep Learning-based OCR			•
Footnotes	- \$6	S60		

2. Refer to Product Reference Duale for complete Int of symbolic pers.
3. Printing insolution, contrast, power source, illumination source, and entree Specifications subject to champe without ratios.

Specifications

VS40-SR30" FOV Let	ns -		VS40-WA46' FOV Lens		
Symbology Resolution	Near	Far	Symbology Resolution	Neat	Far
5 mil Code 128	310.02.05	24 in./61 cm	5 mil Code 128	3 H/8 cm	14 is./36 cm
10 mil Code 128	3 in.18 cm	49 in./124 cm	10 mil Code 128	3 in /8 cm	30.in./76 cm
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20 mil Code 128	3 in.78 cm	92 M/234 ON	20 mil Code 128	3 in /8 cm	56 in /147 cm
5 mil DataMatrix	3 in/8 cm	t3 in/33 cm	5 mil DataMatrix	3.9./8.09	Ein/201m
50 mil DataMatrix	3 in./8 cm	28 m/71 cm	10 mill DataMatrix	3 H./8 cm	18 m./45 cm
15 mil DetaMatrix	3 m./8 cm	40 in./902 cm	15 mil DataMatrix	3 in /8 cm	27 m/69 on
30 mil DateMatrix	linder	25 in /998 cm	30 mil DataMatrix	3 in /5 cm	32 in /132 cm

xS40 Connections

The



x54	D supports connections for I	USB-C with DisplayPo	irt, power serial and	d GPIO, x-coded E	thernet, and e
urec	xS40 Connections				



Ethernet Connector



ble: Ethernet Connector Pinout Di

Re .	Description	
1	TP1+	
2	TPI-	
3	TP2+	
4	тр2-	
5	TP4+	
6	TP4-	
7	TP3-	
8	TP3+	
94511	SURG D	

External Light Connector



External Light Con

		Description
	Brown	DC_OUT / GPIOB
	White	GPI07
	Blue	GND
	Black	GPI06
	Grey	ANALOG_OUT
HELL.	Bare	SHIELD

10 mill DataMatrix	314.8 cm	18 in /45 cm
15 mil DataMatrix	3 in./8 cm	27 m/69 on
30 mil DataMatrix	3 in /8 cm	32 in /132 cm
		:54 M/154 0
	30 mil DataMatrix	30 mil DataMatrix 3 in./6 cm

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

1	Yellow	GP102
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GP104
5	Violet	GPI05
6	White/Violet	COMMON_IN
7	Red	DC_IN
7	Black	GND
9	Green	COMMON_OUT
10	Orange	CP100
11	Blue	GPIO1
12	Grey	GPI03
SHELL	Bare	SHIELD