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ZEBRA VS40 SMART CAMERA

VS40-SR20S4-2R00W VS40, SR, 2.3 MP, RED, RED BP FILTER

- 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	Standard
Type of scanner	Smart Camera

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 Machine Vision Teri Object Counter Brightness Contrast Brightness Contrast Bright Sol Distance Teri Advanced Pattern Biob Optical Character I Find Crole Caliger Teol Find Crole Caliger Teol Find Strong Deep Learning OCI Peop Cananing OCI Peop Can Description OCV)

Specifications

VS40-SR30" FOV Let	ns		V\$40-WA-46' FOV L	ins	
Symbology Resolution	Near	Far	Symbology Resolution	Neat	Far
5 mil Code 128	310.02.00	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 /R cm	20 in./176 cm	15 mil Code 128	3 H.B.C	42 in /107 cm
20 mil Code 128	3 in./8 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 mill DataMatrix	3 H./8 cm	18 in /45 cm
15 mil OstaMatrix	3 in /8 cm	40 in./902 cm	15 mil DataMatrix	3 in /8 cm	27 m/69 on
30 mil DuteMatrix	3 in./Scm	25 in./928 on	30 mil DataMatrix	3 in /5 cm	32 in /132 cm

xS40 Connections



Ethernet Connector



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

External Light Connector



I Light Co

		Description
	Brown	DC_OUT / GPIOB
2	White	GP107
3	Blue	GND
	Black	GPI06
5	Grey	ANALOG_OUT
SHELL	Bare	SHIELD



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

Teel	Description	Sensor	Standard	Advanced
Object Locate	Find high contrast features		•	•
Pixel Counter	Count points with a set/given grey level in a specific area	2000	•	
Brightness	Provide the average brightness for an area.			
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			•
Biob .	Find, sort and sourt areas of joined pixels with a similar gray level		•	•
Optical Character Verification (OCV)	impacts the quality of text or logos		1.000	
Find Circle	Find and measure circles.		1.000	
Caliper Tool	Find and measure the distance between two edges.		•	
Faters	Enhance image quality for more robust impection		•	
10/20/DPM	Read 10, 20 and DPM barcodes			
Deep Learning OCR	Deep Learning-based OCR			•
Footnotes				

Refer to Product Reference Duale for complete Int of symbolic pers.
Protog resolution, contrast, power source, illumination source, and antivitipe cheations subject to champe without notice.

Specifications

/S40-SR30" FOV Lens			VS40-WA46" FOV Lens		
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 m./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 /R cm	20 in./176 cm	15 mil Code 128	3 H.8 cm	42 in /107 cm
20 mil Code 128	3 in.78 cm	92 HJ/234 (m	20 mil Code 128	3 in./8 cm	56 in /142 cm
5 mil DataMatrix	3 in/8 cm	13 in./33 cm	5 mil DataMatrix	3 8./8 05	EIN/2010
50 mil DataMatrix	3 in./8 cm	28 m/71 cm	10 mil DataMatrix	3 in/8 cm	18 m./45 cm
15 mil DetaMatrix	3 m./8 cm	40 in./902 cm	15 mil DataMatrix	3 in /8 on	27 m/69 on
30 mil DuteMatrix	3 in.18 cm	25 in./928 on	20 mil DataMatrix	3 in /8 cm	32 in /122 cm

xS40 Connections

The x540 supports of



1 2 3 4 USB-C (with DisplayPor al Lighting

Ethernet Connect



met Connector Pir

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



xternal Light Con

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

in/132 cm	R. Com
	1 Start
1	Power Serial and GPIO
2	USB-C (with DisplayPort)
3	External Lighting
4	X-Coded Ethernet Port

Power and IO Connector

• and I/O Co

		Description
1	Yellow	GPI02
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

External Light Connector

il DetaMatrix	3 H/8 CH	18 m/46 cm	11 111
il DataMatrix	3.14./8.01	27 m/69 on	11
a DataMetrix	314/8 cm	32 in /132 cm	1
			3
			1
			2

tor			

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

		Description		
1	Yellow	GPIO2		
2	White/Yellow	TXD		
3	Brown	RXD		
4	White/Brown	GPI04		
5	Violet	GPI05		
6	White/Violet	COMMON_IN		
7	Red	DC_IN		
7	Black	GND		
9	Green	COMMON_OUT		
10	Orange	GPIOD		
11	Bloe	GPIO1		
12	Grey	GPI03		
SHELL	Bare	SHIELD		