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ZEBRA VS40 SMART CAMERA

VS40-WA20M4-4B00W VS40, WIDE ANGLE, 2.3 MP, MV TOOLS, BLUE, **BLUE 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
- 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 outEthernet with POE, Serial, USB & Industrial ProtocolsLightingBlueResolution2.3 MPSize54.0 x 64.0 x 91.4Software performanceSTANDARD MV TOOLSETType of lensWide angel

Tool	Description	Sensor	Standard	Advanced
Object Locate	Find high contrast features			
Pixel Counter	Count poets with a set/given grey level in a specific area	9.60		
Brightness	Provide the average brightness for an area.			
Contrast	Provide the average contrast for an area	100		
Edge Tool	Find edges for flaturing and presence/absence			
Distance Tool	Measure the distance between two existing tool results.			
Advanced Pattern	First challenging features			
Blob	First, sort and count areas of joined pixels with a similar gray level			
Optical Character Verification (OCV)	Impacts the quality of text or logos			
Find Circle	Find and measure circles:		0.0	
Caliper Tool	First and measure the distance between two edges.			
Fiters	Enhance image quality for more robust impaction			
10/20/0PM	Reed 10, 20 and DPM barcodes			
Deep Learning OCR	Deep Learning-based OCR			

Specifications

VS40-SR30" FOV Le	VS40-SR30° FOV Lens		VS40-WA46" FOV Lens		
Symbology/Resolution	Near	Far	Symbology/Resolution	Near	Far
5 mil Code 128	3 in/3 cm	24 in/61 cm	5 mil Code 128	3 in/8 cm	14 in /36 cm
10 mil Code 128	3 in.10 cm	49 in /124 cm	10 mil Code 128	3 in/8 cm	30 in /76 cm
15 mil Code 128	2 in/files	20 in /176 pm	15 mil Code 128	3 H-/5 cm	42 in /107 cm
20 mil Code 128	3 in /8 cm	9214/234 (9)	20 mil Code 128	3 in /8 cm	56 in /942 or
5 mil DataMetrix	3 in/8 cm	t) in/33 cm	5 mil DataMatrix	3 H/E 01	Ein./20 zm
10 mil DataMatrix	1 in them	28 m/71 cm	10 mill DataMatrix	3 in/8 cm	18 in./45 cm
15 mil OutaMatrix	3 in /8 cm	40 in /902 cm	15 mil DataMatrix	3 in /8 cm	27 m/69 on
30 mil DutaMatrix	3 in. Hom	78 in./998 cm	30 mil DataMatrix	3 in/8 cm	32 in /132 cm

Smart Camera

xS40 Connections

The xS40 supports connections for USB-C with DisplayPort, power serial and GPIO, x-coded Ethernet, and external lighting





Ethernet Connector

Type of scanner



Fable: Ethernot Connector Pinout Diagram

	Description	
TP1+		
TPS-		
TP2+		
TP2-		
TP4+		
TP4-		
TP3-		
TP3+		
SHIELD		
	TPS- TP2- TP2- TP4- TP4- TP3- TP3-	179- 192- 192- 194- 194- 194- 193-

External Light Connector



Table: External Light Connector Pinout Diagram

1	Brown	DC_OUT / GPIO8	
2	White	GPIO7	
3	Blue	GND	
4	Black	GPIO6	
5	Grey	ANALOG_OUT	
SHELL	Bare	SHIELD	

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

Pla	Celer	Description
1	Yellow	GPIO2
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GPIO4
s	Violet	GPI05
6	White/Violet	COMMON_IN
7	Red	DC_IN
	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIO0
11	Blue	GPI01
12	Grey	GPIO3
SHELL	Bare	SHIELD

	-		_
Description	Sensor	Standard	Advance
Find high contrast features			
Count powits with a ses/given grey level in a specific area	7.0		
Provide the average brightness for an area.	1.0		
Provide the average contrast for an area			
Find edges for flaturing and presence/absence			
Measure the distance between two existing tool results.			
First challenging leatures			
First, sort and court areas of joined pixels with a similar gray level			
impects the quality of text or logos			
First and measure circles		9.53	
First and measure the distance between two edges.			
Enhance image quality for more robust impaction.			
Reed 10, 20 and DPM barcodes			
Deep Learning-based OCR			
	Foot flyg mindred houses. Comprigent with a suppose gay were in a specific was a flygorise to a sease. Flygorise to a surgeous garden and a sease and a flygorise flow and a sease and a flygorise flow and a sease and a flower flow and a sease and a flower flo	Foot Spin understand between Constrainment of the analysis and private in a quantité asse Protes the severage brightness for an exe Foot appear, but the consequence of the consequen	Foot dynamics below: Comprise with a significant payment in specific area Product to except by diprose for an exact Product to except by diprose for an exac Product payment and an exact Product payment for an execution of an execution of a significant payment and a significant payment and an execution of a significant payment and a significant payment a

Some features available in a future release. Contact your Zetna Firsten or sales representative for more informal.
 Better to Product Reference Quide for complete list of symbolinges.

 Refer to Product Reference Guide for comprete this of symbologies.
 Printing resolution, contrain, power source, illumination source, and emberst light depende operflications subject to change without notice.

Specifications

VS40-SR30" FOV Lens			VS40-WA46' FOV Lens		
Symbology Resolution	Near	Fer	Symbology/Resolution	Near	
5 mil Code 128	310.000	24 in/41 cm	5 mil Code 128	3 in/8 on	
10 mil Code 128	3 in.8 cm	49 in /124 cm	10 mil Code 128	3 in/8 cm	
15 mil Code 128	2 in/fee	70 in /176 cm	15 mil Code 128	3 H-8 cm	
20 mil Code 128	3 in /8 cm	92 14/234 (8)	20 mil Code 128	3 in /8 cm	
5 mil DataMatrix	3 in/8 cm	t)in/33cm	5 mil DataMatrix	39.809	
10 mil DataMatrix	3 in. thore	28 m/71 cm	10 mil DataMatrix	3 in/8 cm	
15 mil DetaMatrix	3 m/8 cm	40 in /902 on	15 mil DataMatrix	3 in /8 cm	
30 mil DutaMatrix	- lin/fice	75 in /199 cm	30 mil DataMetrix	3 in/8 cm	

xS40 Connections

The x540 supports connections for USB-C with DisplayPort, power serial and GPIO, x-coded Ethernet, and external lightin



Power Serial and GPIO
 USS C (with DisplayPurg
 Serial Lighting
 A X-Code Element Purt

Ethernet Connector



Table: Ethernet Connector Pinout Diagram

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

External Light Connector



Table: External Light Connector Pinout Diagrar

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Pin	Caler	Description			
1	Brown	DC_OUT / GPIO8			
2	White	GPIO7			
1	Blue	GND			
4	Black	GPIO6			
5	Grey	ANALOG_OUT			
SHELL	Bare	SHIELD			

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

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3	Brown	RXD
4	White/Brown	GPIO4
s	Violet	GPIO5
6	White/Violet	COMMON_IN
7	Red	DC_IN
7 8 9	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIOD
11	Blue	GPiO1
12	Grey	GPIO3
SHELL	Bare	SHIELD