

OEM Automatic Ltd

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ZEBRA VS40 SMART CAMERA

VS40-SR20M4-2R00W VS40, SR, 2.3 MP, MV TOOLS, 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
- loT 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

Lighting Red
Resolution 2.3 MP
Size 54.0 x 64.0 x 91.4
Software performance STANDARD MV TOOLSET
Type of lens Smart Camera

Tool	Description	Sensor	Standard	Advanced
Object Locate	Find high contrast features			
Pixel Counter	Count powth 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.	9.		
Advanced Pattern	First challenging features			
Blob	First, sort and count areas of joined pivets with a similar grey level			
Optical Character Verification (OCV)	Impects the quality of text of logos			
Find Circle	First and measure circles		5.0	
Caliper Tool	First and measure the distance between two edges.			
Fiters	Enhance image quality for more robust impaction.			
10/20/DPM	Reed 10, 20 and DPM barcodes			
Deep Learning OCR	Deep Learning-based OCR			

Specifications

VS40-SR30" FOV Le	VS40-SR30° FOV Lens			res	
Symbology Resolution	Near	Fer	Symbology/Resolution	Near	For
5 mil Code 128	3 in./2 cm	24 m/sten	5 mil Code 128	3 H/S 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
15 mil Code 128	3 in/d cm	20 in /176 cm	15 mil Code 128	3 H-25 cm	42 in /107 cm
20 mil Code 128	3 in /8 cm	92 H/234 ON	20 mil Code 128	3 in /8 cm	56 in /147 cm
5 mil DataMatrix	3 in/8 cm	t)in/33cm	5 mil DataMatrix	3 H/E 09	Ein/201m
10 mil DataMatrix	3 is./8 cm	28 m/71 cm	10 mil DataMatrix	3 in/8 cm	18 in /45 cm
15 mil DetaMatrix	3 m/ken	40 in /902 on	15 mil DataMatrix	3 in /8 cm	27 m/69 on
30 mil DuteMatrix	3 in Sice	75 in./998 on:	30 mil DataMetrix	3 in/S on	32 in/132 cm

xS40 Connections

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



1	Power Serial and GPIO
2	USB-C (with DisplayPort)
3	External Lighting
4	X-Coded Ethernet Port

Ethernet Connector



ble: Ethernet Connector Pinout Diagram

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

External Light Connector



Table: External Light Connector Pinout Diagram

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

Power and IO Connector



Table: Power and I/O Connector Pinout Diagra

		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	GPIO0
11	Blue	GPiO1
12	Grey	GPI03
SHELL	Bare	SHIELD

Machine Vision (MV) Tools		-		
Tool	Description	Sensor	Standard	Advanced
Object Locate	Find high contrast features			
Pixel Counter	Count points with a set/given grey level in a specific area	7.0		
Brightness	Provide the average brightness for an area.	1.0		
Contrast	Provide the average contrast for an area			
Edge Sool	Find edges for flaturing and presence/absence			
Distance Tool	Measure the distance between two existing tool results.			
Advanced Pattern	First challenging teatures			
Blob	First, sort and count areas of joined pixels with a similar gray level			
Optical Character Verification (OCV)	impects the quality of text or logos			
Find Circle	First 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/DPM	Reed 10, 20 and DPM barcodes			
Deep Learning OCR	Deep Learning-based OCR			
Footnotes	0.0	Min		0.5

Specifications

VS40-SR30" FOV Let	ns		VS40-WA46" FOV L	ins	
Symbology Resolution	Near	Fac	Symbology/Resolution	Near	
5 mil Code 128	3 in/d cm	24 m/61 cm	5 mil Code 128	3 H/S cm	
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xS40 Connections

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



1	Power Serial and GPIO
2	USB-C (with DisplayPort)
3	External Lighting
4	X-Coded Ethernet Port

Ethernet Connector



thernet Connector Pinout Diagram

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

External Light Connector



Fable: External Light Connector Pinout Diagram

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Fig.	Caler	Description	
	Brown	DC_OUT / GPIOB	
	White	GP107	
i)	Blue	GND	
	Black	GPI06	
	Grey	ANALOG_OUT	
HELL	Bare	SHIELD	

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

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2	White/Yellow	TXD
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s	Violet	GPIO5
6	White/Violet	COMMON_IN
7	Red	DC_IN
7 8 9	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIO0
11	Blue	GPIO1
12	Grey	GPI03
SHELL	Bare	SHIELD