

OEM Automatic Ltd

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ZEBRA VS40 SMART CAMERA

VS40-SR20P5-2R00W VS40, SR, 2.3 MP, 2D, 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

Interface outDual Ethernet (1 POE), Serial, USB & Industrial ProtocolsLightingRedResolution2.3 MPSize54.0 x 64.0 x 91.4Software performanceSensor Toolset W/ Fast 2D DecodeType of lensStandardType of scannerSmart Camera

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.	9.		
Advanced Pattern	First challenging features			
Blob	First, sort and count areas of joined pivets with a similar gray level			
Optical Character Verification (OCV)	Impacts 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			

Specifications

VS40-SR-30" FOV Let	VS40-SR30" FOV Lens			VS40-WA46' FOV Lens		
Symbology Resolution	Near	Fer	Symbology/Resolution	Near	For	
5 mil Code 128	311.73 cm	24 m/sten	5 mil Code 128	3 H/S cm	14 is /36 cm	
10 mil Code 128	3 in.15 cm	49 in /124 cm	10 mil Code 128	3 in /8 cm	30 in /76 cm	
15 mil Code 128	2 in/d cm	20 in /176 cm	15 mil Code 128	3 H-3 cm	42 is /107 cm	
20 mil Code 128	3 in./8 cm	92 H/234 (N	20 mil Code 128	3 in /8 cm	56 in /147 cm	
5 mil DataMatrix	3 in/8 cm	thin/dilen	5 mil DataMatrix	3 H/E 01	Ein,/20 //m	
10 mil DataMatrix	3 in/8 cm	28 m/71 cm	10 mil DataMatrix	3 in/8 cm	18 in./45 cm	
15 mil DetaMatrix	3 in 78 cm	40 in /902 on	15 mil DataMatrix	3 in /8 cm	27 m/69 on	
30 mil DutaMatrix	3 in Sign	78 in./998 cm	30 mil DataMatrix	3 in/8 cm	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: Ethernot 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 / GPIO8	
2	White	GPIO7	
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
,	Yellow	GP102
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GPI04
5	Violet	GPIO5
6	White/Violet	COMMON_IN
7	Red	DC_IN
	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIOD
11	Blue	GPI01
12	Grey	GPIO3
SHELL	Bare	SHIELD

Machine Vision (MV) Tools				
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	7.67		
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 features			
Blob	First, sort and count areas of joined pivets with a similar gray level			
Optical Character Verification (OCV)	Impacts the quality of text or logos			
Find Circle	Find and measure circles			
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			

Some features available in a future release. Contact your Zebis Fartier or sales representative for more informatic. Before to Product Reference Guide for complete into if ymboliogen. Protoco servicions control to operationum, illumination source, and sentence later descendent.

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Symbology Resolution	Near	Fer	Symbology/Resolution		
5 mil Code 128	3 in them	24 m/sten	5 mil Code 128		
10 mil Code 128	3 in.18 cm	49 in:/124 cm	10 mil Code 128		
15 mil Code 128	3 in/Ren	70 in /178 cm	15 mil Code 128		
20 mil Code 128	3 in 78 cm	92 H/234 (H	20 mil Code 128		
5 mil DataMatrix	3 in/8 cm	thin/dilen	5 mil DataMatrix		
10 mil DataMatrix	3 is /8 cm	28 m/71 cm	10 mil DataMatrix		
15 mil DetaMatrix	3 in 78 cm	40 in /902 on	15 mil DataMatrix		
30 mil DutaMatrix	3 in Sice	75 in./998 on	30 mil DataMatrix		

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



et Connector Pinout Diagram

Min		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

	e. External Light Connector Pinout Diagram		
	Pin	Caler	Description
	Bro	own	DC_OUT / GPIO8
	Wh	ite.	GPIO7
13	Dis		GND
	Dia	ick	GPIO6
	Gri	ry	ANALOG_OUT
HELL	Ba	re .	SHIELD

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

1	Yellow	GPIO2
2	White/Yellow	130
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