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ZEBRA VS40 SMART CAMERA

VS40-SR20S4-2C00W VS40, SR, 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
- 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 Sensor Toolset
Type of lens Standard 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	7.6		•
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 Tsei	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		0.0	
Caliper Tool	First and measure the distance between two edges.			
Fitters	Enhance image quality for more robust impaction.			
10/20/DPM	Reed 10, 20 and DPM barcodes			
Deep Learning OCR	Deep Learning-based OCR			
Footnotes				

Specifications

VS40-SR30" FOV Lens			VS40-WA46' FOV Lens		
Symbology Resolution	Near	Fer	Symbology/Resolution	Near	Far
5 mil Code 128	3 in/d cm	24 m/61 cm	5 mil Code 128	3 H/S cm	14 to /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-3 cm	42 is /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 011	Ein/201m
10 mil DataMatrix	3 in. them	28 m/71 cm	10 mil DataMatrix	3 in/8 cm	18 in./45 cm
15 mil OutaMatrix	3 in 78 cm	40 in./902 on	15 mil DataMatrix	3 in dice	27 m /69 on
30 mil DutaMatrix	3 in. Sice	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

Brown	DC_OUT / GPIO8
White	GP107
Blue	GND
Black	GPI06
Grey	ANALOG_OUT
Bare	SHIELD
	White Blue Black Grey

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

Teel	Description	Sensor	Standard	Advanced
Object Locate	Find high contrast features			-
Picel Counter	Count poets with a set/given prey level in a specific area	1		-
		7.0		•
Brightness	Provide the average brightness for an area.		9.1	
Contrast	Provide the average contrast for an area			
Edge Tool	Find edges for flaturing and presence/absence			100
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	15 33	Mr.		

Specifications

\$40-5R30" FOV Lens			VS40-WA46" FOV
mbology Resolution	Near	Fee	Symbology/Resolution
mil Code 128	311.00	24 in filters	5 mil Code 128
mil Code 128	3 in. 2 cm	49 in./124 cm	10 mil Code 128
mil Code 128	3 in/dices	20 in /178 pm	15 mil Code 128
mil Code 128	3 in 70 cm	92 H/234 OH	20 mil Code 128
mil DataMatrix	3 in/8 cm	tlin/3len	5 mil DataMatrix
mil DataMatrix	3 in them	28 m/71 cm	10 mil DataMatrix
mit OutaMatrix	3mRon	40 in /102 on	15 mil DataMatrix
mil DutaMutrix	- lin/fice	75 in /998 cm	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



t 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



Table: External Light Connector Pinout Diagra

Pin	Caler	Description	
	Brown	DC_OUT / GPIOB	
	White	GPIO7	
	Blue	GND	
	Black	GPI06	
	Grey	ANALOG_OUT	
HELL	Bare	SHIELD	

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	GPIO4
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