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# **ZEBRA VS40 SMART CAMERA**

VS40-WA50M5-2R00W VS40, WIDE ANGLE, 5.1 MP, MV TOOLS, 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<sup>™</sup> 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	Dual Ethernet (1 POE), Serial, USB & Industrial Protocols
Lighting	Red
Resolution	5.1 MP
Size	54.0 x 64.0 x 91.4
Software performance	STANDARD MV TOOLSET
Type of lens	Wide angel
Type of scanner	Smart Camera

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Specifications

VS40-SR30" FOV Lens			VS40-WA46" FOV Lens		
Symbology Resolution	Near	Far	Symbology/Resolution	Near	Far
5 mil Code 128	310./8 cm	24 in Alten	5 mil Code 128	3 H./8 cm	34 in./36 cm
10 mil Code 128	3 in./8 cm	#9 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./8 cm	92 M/234 ON	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	39./809	E10,/20 zm
50 mil DataMatrix	3 in./8 cm	28 m/71 cm	10 mill DataMatrix	314.8 cm	18 in./45 cm
15 mil DetaMatrix	3 in /8 cm	40 in./902 cm	15 mil DataMatrix	3 in /8 cm	27 m/69 on
30 mil DateMatrix	3 in./8 cm	75 in./98 on	30 mil DataMatrix	3 in /5 cm	32 in /132 cm

xS40 Connections



## Ethernet Connector



# Table: Ethernet Connector Pinout Diagram

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

## External Light Connector



Table: External Light Connector Pinout Diagram

		Description
	Brown	DC_OUT / GPIO8
	White	GPI07
	Blue	GND
	Black	GPI06
5	Grey	ANALOG_OUT
SHELL	Bare	SHIELD

#### Power and IO Connector



1	Yellow	GP102
2	White/Yellow	TXD
3	Brown	RXD
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
	Blue	GPI01
12	Grey	GP103
SHELL	Bare	SHIELD

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Consult         Provide the average instruction for each operation that its set of the instruction of the instruct	Pixel Counter	Count points with a set/given grey level in a specific area	2000	•		
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15/20/DPM Read 10, 20 and DPM barypdes	Caliper Tool	Find and measure the distance between two edges.		•		
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	0/20/DPM	Read 10, 20 and DPM barcodes		•		
Deep Learning OCR Deep Learning-based OCR	Deep Learning OCR	Deep Learning-based OCR			•	

Refer to Product Reference Guide for complete list of symbolicityes.
 Proting resolution, contrast, power source, illumination source, and ambient light dependent
Specifications subject to champe without notice

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VS40-SR30" FOV Lens			VS40-WA46' FOV Lens		
Symbology Resolution	Near	Far	Symbology/Resolution	Neat	Far
5 mil Code 128	310./8 cm	24 in./61cm	5 mil Code 128	3 H./8 cm	14 in /36 cm
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30 mil DuteMatvix	linder	25 in /998 cm	30 mil DataMatrix	310.50	32 in /112 cm

# xS40 Connections



#### Ethernet Connector



Table: Ethernet Connector Pinout Diagram

. Per	Description	
1	TP1+	
2	TP5-	
3	TP2+	
4	TP2-	
5	TP4+	
6	TP4-	
7	TP3-	
8	TP3+	
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# External Light Connector



#### Table: External Light Connector Pinout Diagram

		Description	
	Brown	DC_OUT / GPIOB	
	White	GP107	
	Blue	GND	
	Black	GPI06	
	Grey	ANALOG_OUT	
HELL	Bare	SHIELD	

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

1	Yellow	GPIO2
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GPIO4
5	Violet	GPI05
6	White/Violet	COMMON_IN
7	Red	DC_IN
7	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIOD
11	Bloe	GPI01
12	Grey	GPI03
SHELL	Bare	SHIELD