

## ZEBRA VS40 SMART CAMERA

VS40-SR20P4-2R00W

VS40, SR, 2.3 MP, 2D, RED, RED BP FILTER

- **Ease of Setup with Auto-Tune:** The VS40 offers a one-button 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 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	Ethernet with POE, Serial, USB & Industrial Protocols
Lighting	Red
Resolution	2.3 MP
Size	54.0 x 64.0 x 91.4
Software performance	Sensor Toolset W/ Fast 2D Decode
Type of lens	Standard
Type of scanner	Smart Camera

Machine Vision (MV) Tools				
Test	Description	Sensor	Standard	Advanced
Open Locate	Find high contrast features	•	•	•
Pixel Counter	Count pixels with a setpoint gray level in a specific area	•	•	•
Brightness	Provides the average brightness for an area	•	•	•
Contrast	Provides the average contrast for an area	•	•	•
Edge Test	Find edges for feature and process alignment	•	•	•
Distance Test	Measure the distance between two existing tool results	•	•	•
Advanced Pattern	Find challenging features	•	•	•
Blue	Find, sort and count areas of colored pixels with a color gray level	•	•	•
Optical Character Verification (OCV)	Inspects the quality of bar codes	•	•	•
Find Circle	Find and measure circles	•	•	•
Caliper Test	Find and measure the distance between two edges	•	•	•
Filter	Enhance image quality for more robust inspection	•	•	•
ISO-SPM	Read 1D, 2D and DPM barcodes	•	•	•
Deep Learning OCR	Deep Learning based OCR	•	•	•

**Footnotes:**

- Some features available in a future release. Contact your Delta Partner or sales representative for more information.
- Refer to Product Reference Guide for complete list of capabilities.
- Timing resolution, contrast, power source, illumination source, and ambient light dependent

Specifications subject to change without notice.

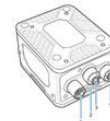
## Specifications

VS40-58~30° FOV Lens				VS40-WA~40° FOV Lens			
Symbology/Resolution	Near	Far		Symbology/Resolution	Near	Far	
5 mil Code 128	3 in./76 cm	24 in./61 cm		5 mil Code 128	3 in./76 cm	34 in./86 cm	
10 mil Code 128	3 in./76 cm	49 in./124 cm		10 mil Code 128	3 in./76 cm	59 in./150 cm	
15 mil Code 128	3 in./76 cm	70 in./178 cm		15 mil Code 128	3 in./76 cm	82 in./208 cm	
20 mil Code 128	3 in./76 cm	92 in./234 cm		20 mil Code 128	3 in./76 cm	104 in./265 cm	
5 mil DataMatrix	3 in./76 cm	13 in./33 cm		5 mil DataMatrix	3 in./76 cm	16 in./41 cm	
10 mil DataMatrix	3 in./76 cm	28 in./71 cm		10 mil DataMatrix	3 in./76 cm	38 in./96 cm	
15 mil DataMatrix	3 in./76 cm	40 in./102 cm		15 mil DataMatrix	3 in./76 cm	51 in./130 cm	
20 mil DataMatrix	3 in./76 cm	59 in./150 cm		20 mil DataMatrix	3 in./76 cm	72 in./183 cm	

## xS40 Connections

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

Figure: xS40 Connections



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

## Ethernet Connector

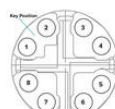


Table: Ethernet Connector Pinout Diagram

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

## External Light Connector

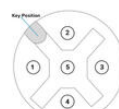


Table: External Light Connector Pinout Diagram

Pin	Color	Description
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

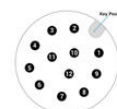


Table: Power and IO Connector Pinout Diagram

Pin	Color	Description
1	Yellow	GPIO2
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GPIO4
5	Violet	GPIO5
6	White/Violet	COMMON_IN
7	Red	DC_IN
8	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIO8
11	Blue	GPIO1
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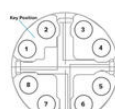


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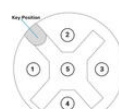


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