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ZEBRA VS40 SMART CAMERA

VS40-WA50M4-6C00W VS40, WIDE ANGLE, 5.1 MP, MV TOOLS, RED, WHITE, BLUE & IR

- 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[™] 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, White, Blue, Infrared
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

Tool	Description	Sensor Standard		Advances
Object Locate	Find high contrast features			•
Pixel Counter	Count points with a set/given grey level in a specific area	2000	•	
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 leatures			•
Blob	First, sort and count areas of joined pixels with a similar grey level		•	•
Optical Character Verification (OCV)	impacts the quality of text or logos		1.000	
Find Circle	Find and measure circles.		1.000	
Caliper Tool	Find and measure the distance between two edges.		•	
Fiters	Enhance image quality for more relauct impaction		•	•
10/20/0PM	Read 10, 20 and DPM barcoles			
Deep Learning OCR	Deep Learning-based OCR			•
Footnotes				

Specifications

VS40-SR30" FOV Lens			VS40-WA46' FOV Lens		
Symbology Resolution	Near	Far	Symbology/Resolution	Neat	Far
5 mil Code 128	310./845	24 in./61cm	5 mil Code 128	3 H./8 cm	3410/36 cm
10 mil Code 128	3 in./8 cm	49 in./124 cm	10 mil Code 128	3 in/8 cm	30 in /76 cm
15 mil Code 128	3 in/Ren	20 in /076 pm	15 mil Code 128	3 H-8 cm	42 in /107 cm
20 mil Code 128	3 in /8 cm	92 H./234 UN	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	3.9./8.09	E18/2010
10 mil DataMatrix	3 in.18 cm	28 m/71 cm	10 mill DataMatrix	314/8 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 cm
30 mil DateMatrix	3 in./8 cm	75 in./92 on	30 mil DataMatrix	3 in /5 cm	32 in /132 cm

xS40 Connections



Ethernet Connector



Table: Ethernet Connector Pinout Diagram

		Description	
1	TP1+		
2	TP5-		
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	
2	White	GPI07	
1	Blue	GND	
i.	Black	GPIO6	
6	Grey	ANALOG_OUT	
SHELL	Bare	SHIELD	

Power and IO Connector



		Description
1	Yellow	GPIO2
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GPI04
s	Violet	GPIO5
6	White/Violet	COMMON_IN
7	Red	DC_IN
	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIOD
	Blue	GPi01
12	Grey	GPI03
SHELL	Bare	SHIELD

Teol	Description Senser Sta		Description		Standard	Advanced
Object Locate	Find high contrast features .		•	•		
Pixel Counter	Count poets with a set/given grey level in a specific area	2000	•			
Brightness	Provide the average brightness for an area.		1.1.1			
Continent	Provide the average contrast for an area		199.1	•		
Edge Tool	Find edges for flaturing and presence/absence		•			
Distance Tool	Measure the distance between two existing tool results.	Measure the distance between two existing tool results.		•		
Advanced Pattern	First challenging leatures			•		
Biob .	First, sort and count areas of joined pixels with a similar gray level		• 1	•		
Optical Character Verification (OCV)	impects the quality of text of logos		0.000			
Find Circle	Find and measure circles.	First and measure circles				
Caliper Tool	Find and measure the distance between two edges.		•			
Fiters	Enhance image quality for more robust impection					
ID/2D/DPM	Read 10, 20 and DPM barcodes	20 and DPM barcoles				
	Deep Learning-based OCR					

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xS40 Connections



Ethernet Connector



Table: Ethernet Connector Pinout Diagram

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1	TP1+		
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5	TP4+		
6	TP4-		
7	TP3-		
8	TP3+		
0.001	CUPTO D		

External Light Connector



Table: External Light Connector Pinout Diagram

		Description	
	Brown	DC_OUT / GPIO8	
	White	GPI07	
	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	GP104
5	Violet	GPI05
6	White/Violet	COMMON_IN
7	Red	DC_IN
7	Black	GND
9	Green	COMMON_OUT
10	Orange	CP100
11	Blue	GPIO1
12	Grey	GPI03
SHELL	Bare	SHIELD