

VS40

Machine Vision Smart Camera

VS40-WA20M4-4B00W

VS40, WIDE ANGLE, 2.3 MP, MV TOOLS, BLUE,
BLUE BP FILTER

- Upplösning: 2.3 / 5.1 Megapixel
- Pixelstorlek: 3.0 / 2.2 μm
- Bildhastighet: 60 / 30 fps
- Integrerad fokus och belysning
- IP-klassning: IP65 & IP67



PRODUKTBESKRIVNING

<https://youtu.be/HancrRbSXOc?t=15>

VS40 kan användas i nästan alla inspektionsapplikationer på en produktionslinje, tack vare sitt breda utbud av Machine Vision verktyg. Skräddarsy enheten efter din applikation med ett brett utbud av linser, belysning, I/Os och filter. Dessutom kan du uppgradera till mer avancerade funktioner genom att enkelt köpa en mjukvarulicens. Med Zebra Auroras kraftfulla mjukvaruplattform kan du enkelt ställa in, distribuera och köra dina VS40 smartkameror.

TEKNISK DATA

Belysning	Blå
Filter	Rött bandpassfilter
Fokus	Liquid lens
Interface out	Ethernet with POE, Serial, USB & Industrial Protocols

Linstyp	Wide angel
Software performance	STANDARD MV TOOLSET
Storlek	54.0 x 64.0 x 91.4
Typ av scanner	Smart Camera
Upplösning	2.3 MP

Machine Vision (MV) Tools				
Tool	Description	Sensor	Standard	Advanced
Object Locate	Find high contrast features	•	•	•
Pixel Counter	Count pixels with a setpoint gray level in a specific area	•	•	•
Brightness	Provide the average brightness for an area	•	•	•
Contrast	Provide the average contrast for an area	•	•	•
Edge Test	Find edges for feature and presence/absence	•	•	•
Distance Test	Measure the distance between two existing test results	•	•	•
Advanced Pattern	Find challenging features	•	•	•
Block	Find, sort and count areas of joined pixels with a similar gray level	•	•	•
Optical Character Verification (OCV)	Inspect the quality of text or logos	•	•	•
Find Circle	Find and measure circles	•	•	•
Caliper Test	Find and measure the distance between two edges	•	•	•
Filters	Enhance image quality for more robust inspection	•	•	•
ISO-DSPM	Read ISO 20 and DPM labels	•	•	•
Deep Learning OCR	Deep Learning based OCR	•	•	•
Footnotes				
1. Some features available in a future release. Contact your Zebra Partner or sales representative for more information.				
2. Refer to Product Reference Guide for complete list of capabilities.				
3. Printing resolution, contrast, power source, illumination source, and ambient light dependent				
Specifications subject to change without notice				

Specifications

VS40 88°-30° FOV Lens			VS40 WA-48° FOV Lens		
Symbology/Resolution	Near	Far	Symbology/Resolution	Near	Far
5 mil Code 128	3 in./8 cm	24 in./61 cm	5 mil Code 128	3 in./8 cm	16 in./40 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./8 cm	55 in./139 cm	15 mil Code 128	3 in./8 cm	42 in./107 cm
20 mil Code 128	3 in./8 cm	52 in./131 cm	20 mil Code 128	3 in./8 cm	56 in./140 cm
5 mil DataMatrix	3 in./8 cm	13 in./33 cm	5 mil DataMatrix	3 in./8 cm	8 in./20 cm
10 mil DataMatrix	3 in./8 cm	28 in./71 cm	10 mil DataMatrix	3 in./8 cm	18 in./46 cm
15 mil DataMatrix	3 in./8 cm	40 in./102 cm	15 mil DataMatrix	3 in./8 cm	27 in./69 cm
20 mil DataMatrix	3 in./8 cm	35 in./89 cm	20 mil DataMatrix	3 in./8 cm	32 in./81 cm

xS40 Connections

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

Figure: xS40 Connections



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

Ethernet Connector

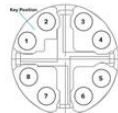


Table: Ethernet Connector Pinout Diagram

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

External Light Connector

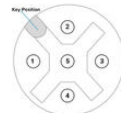


Table: External Light Connector Pinout Diagram

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

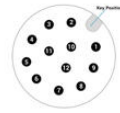


Table: Power and IO Connector Pinout Diagram

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	GPIO6
11	Blue	GPIO1
12	Grey	GPIO3
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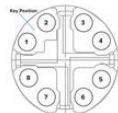


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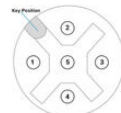


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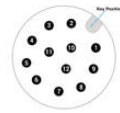


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