



VS40

VS40-SR20M4-2C00W

- Rozlišení: 2,3 / 5,1 megapixelů
- Velikost pixelu: 3,0 / 2,2 μm
- Snímková frekvence: 60 / 30 snímků za sekundu
- Integrované ostření a osvětlení
- Krytí IP: IP65 a IP67



POPIS PRODUKTU

Chytrá kamera Zebra VS40 pro strojové vidění představuje komplexní řešení pro automatizaci výrobních a logistických procesů, které integruje pokročilé funkce do jednoho odolného zařízení. Jednotná softwarová platforma Zebra Aurora™ zjednodušuje nastavení, nasazení a správu pro začátečníky i experty a snižuje tak náklady i čas potřebný na školení. Klíčové inovace, jako je ImagePerfect+ pro pořízení až 16 různých snímků na jedno spuštění a napájení přes Ethernet (PoE), eliminují potřebu externího příslušenství a zvyšují spolehlivost inspekcí, což vede k výraznému snížení zmetkovitosti a zvýšení efektivity výroby.

Klíčové body:

- Zebra VS40 je chytrá kamera pro strojové vidění, která zvyšuje automatizaci a kvalitu výrobních procesů.
- Softwarová platforma Zebra Aurora™ sjednocuje ovládání všech pevných skenerů a kamer Zebra v intuitivním rozhraní.
- Funkce ImagePerfect+ umožňuje na jedno spuštění pořídit až 16 různých snímků, každý s unikátním nastavením.
- Díky podpoře napájení přes Ethernet (PoE) se snižuje složitost instalace a související náklady.
- Univerzální port USB-C poskytuje flexibilitu pro připojení dalšího příslušenství, jako jsou tiskárny, tablety nebo externí úložiště.
- Odolné hliníkové pouzdro s krytím IP65 a IP67 zaručuje spolehlivý provoz v náročných průmyslových podmínkách.
- Funkcionalitu kamery lze kdykoliv rozšířit pomocí jednoduchého upgradu softwarové licence.
- Nástroj Golden Image Compare umožňuje rychlou diagnostiku problémů porovnáním aktuálního snímku s referenčním „dokonalým“ obrazem.

SPECIFIKACE

Focus	Liquid lens
Interface out	Ethernet with POE, Serial, USB & Industrial Protocols
Lighting	Červená
Size	54.0 x 64.0 x 91.4
Software performance	STANDARD MV TOOLSET
Type of scanner	Smart Camera

Machine Vision (MV) Tools				
Tool	Description	Sensor	Standard	Advanced
Object Counter	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 focusing and precision/robustness	•	•	•
Distance Test	Measure the distance between two existing test results	•	•	•
Advanced Pattern	Find challenging features	•	•	•
Blob	Find, sort and count areas of joined pixels with a similar gray level	•	•	•
Optical Character Verification (OCV)	Inspect the quality of text or signs	•	•	•
Fast Check	Find and measure circles	•	•	•
Caliper Test	Find and measure the distance between two edges	•	•	•
Filters	Enhance image quality for more robust inspection	•	•	•
ISO200PM	Read 1D, 2D and DPM barcodes	•	•	•
Deep Learning OCR	Deep Learning based OCR	•	•	•

Footnotes

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

Specifications subject to change without notice.

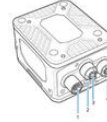
Specifications

VS40 58~30° FOV Lens			VS40 76~48° 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	16 in./41 cm
10 mil Code 128	3 in./76 cm	49 in./124 cm	10 mil Code 128	3 in./76 cm	30 in./76 cm
15 mil Code 128	3 in./76 cm	30 in./76 cm	15 mil Code 128	3 in./76 cm	42 in./107 cm
20 mil Code 128	3 in./76 cm	32 in./81 cm	20 mil Code 128	3 in./76 cm	16 in./41 cm
5 mil DataMatrix	3 in./76 cm	13 in./33 cm	5 mil DataMatrix	3 in./76 cm	8 in./20 cm
10 mil DataMatrix	3 in./76 cm	28 in./71 cm	10 mil DataMatrix	3 in./76 cm	18 in./46 cm
15 mil DataMatrix	3 in./76 cm	40 in./102 cm	15 mil DataMatrix	3 in./76 cm	27 in./69 cm
20 mil DataMatrix	3 in./76 cm	38 in./98 cm	20 mil DataMatrix	3 in./76 cm	32 in./82 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

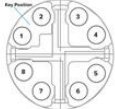


Table: Ethernet Connector Pinout Diagram

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

External Light Connector

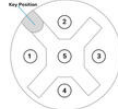


Table: External Light Connector Pinout Diagram

Pin	Color	Description
1	Brown	DC_OUT / GPIOB
2	White	GPIO7
3	Blue	GND
4	Black	GPIO6
5	Grey	ANALOG_OUT
SHELL	Bare	SHIELD

Power and IO Connector

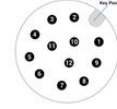


Table: Power and IO Connector Pinout Diagram

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
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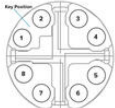


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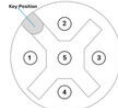


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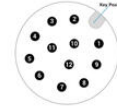


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