

0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

## **ZEBRA FS40 SMART CAMERA**

FS40-WA50D4-2C00W FS40, WIDE ANGLE, 5.1 MP, DPM, 2D, RED



- High Performance Data Capture: The FS40 features Zebra's PRZM Intelligent Imaging technology for reliable first-time data capture of 1D, 2D, and DPM barcodes, even on challenging surfacest
- Easy Setup and Operation: With Auto-Tune and Zebra Aurora software, the FS40 is easy to set up and deploy, offering quick image adjustments and simplified management of barcode scanning and machine vision
- · Flexibility and Future-Proofing: The FS40 supports a wide range of symbologies and can be upgraded through software licenses for faster barcode capture or machine vision capabilities
- Integrated and Customizable Lighting: The scanner includes powerful, integrated lighting options—red, white, blue, or infrared—for capturing high-quality images, eliminating the need for external lighting
- Rugged Design: Built for industrial environments, the FS40 has an IP65/IP67 rating, is resistant to dust and water, and operates reliably in harsh conditions



## PRODUCT DESCRIPTION

Track every item in your production with the FS40 in real time. Thanks to several connection options, it is easy to integrate with your PLC. Zebra's powerful Aurora software with its intuitive interface makes the FS40 easy to install, deploy and use. It is also possible to easily upgrade your scanner to gain access to new functions and future-proof your investment.

# **TECHNICAL DATA**

Focus	Liquid lens
Interface out	Ethernet with POE, Serial, USB & Industrial Protocols
Lighting	Red
Resolution	5.1 MP
Size	54.0 x 64.0 x 91.4
Software performance	DPM W/Fast 2D Barcode Decoder
Type of lens	Wide angel
Type of scanner	Fixed Scanner

# **Specifications**

Decode Ranges (Typic	at trocking natige:	4.
FS40-SR-30" FOV Let	15	
Symbology/Resolution	Near	Far
S mil Code 128	3 in./8 cm	24 in 761 cm
10 mil Code 128	3 in /8 cm	49 in /124 cm
15 mil Code 128	3 in /8 cm	70 in /178 cm
20 mil Code 128	3 in./8 cm	92 in./234 cm
5 mil DataMatrix	3 in /8 cm	13 in./33 cm
10 mil DataMatrix	3 in./8 cm	28 in./71 cm
15 mil DataMatrix	3 in /8 cm	40 in /102 cm
30 mil DataMatrix	3 in /8 cm	78 in./198 cm
FS40-WA-46' FOV Le	ns	V.
Symbology/Resolution	Near	Far
5 mil Code 128	3 in./8 cm	14 in./36 cm
10 mil Code 128	3 in./8 cm	30 in./76 cm
15 mil Code 128	3 in /8 cm	42 in./107 cm
20 mil Code 128	3 in /8 cm	56 in./142 cm
5 mil DataMatrix	3 in./8 cm	8 in /20 cm
10 mil DataMatrix	3 in /8 cm	18 in./46 cm
15 mil DataMatrix	3 in./8 cm	27 in./69 cm
30 mil DataMatrix	3 in./8 cm	52 in./132 on

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  1.5 Some features: available in a future release. Contact your Zebra Partner or sales representative for more information.

  2. Refer to Product Reference Guide for compiler list of symbologies.

  3. Printing resolution, central, power source, illumination source, and ambient light dependent.

  Specifications subject to change without notice.

## xS40 Connections



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

## Ethernet Connector



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

## External Light Connector



	Description	
Brown	DC_OUT / GPIO8	
White	GP107	
Blue	GND	
Olack	GPI06	
Grey	ANALOG_OUT	
Bare	SHIELD	
	White Dive Disck Grey	White GPI07 Blue GN0 Black GPI06 Grey ANALOG_OUT

## Power and IO Connector



PM		Owneription
1	Yellow	GP102
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GP104
s	Violet	GPIOS
6	White/Violet	COMMON_IN
7	Red	DC_IN
	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIO0
11	Bloe	GPIO1
12	Grey	GPIO3
SHELL	Bare	SHIELD

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		200

# 30 mil DataMatrix 3 in /8 cm 52 in /132 cm

- Footnotes

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## xS40 Connections



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

## Ethernet Connector



		Description	
1	TP%+		
2	TPS-		
3	TP2+		
4	TP2-		
5	TP4+		
6	TP4-		
7	TP3-		
8	TP3+		
SHELL	SHIELD		

## External Light Connector



		Description
1	Brown	DC_OUT / GPIOB
2	White	GPIO7
3	Blue	GND
4	Black	GPI06
5	Grey	ANALOG_OUT
SHELL	Bare	SHIELD

## Power and IO Connector



### able Reserved I/O Connector Bloom Disease

		Description
	Yellow	GPIO2
	White/Yellow	TXD
	Brown	RXD
	White/Brown	GPIO4
	Violet	GPIOS
6	White/Violet	COMMON_IN
	Red	DC_IN
	Black	GND
	Green	COMMON_OUT
10	Orange	GPI00
	Blue	GPIO1
2	Grey	GPIO3
SHELL	Base	SMED