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## **ZEBRA FS40 SMART CAMERA**

FS40-WA20D5-2R00W FS40, Wide Angle, 2.3 MP, DPM, 2D, Red BP Filter

- 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 functions
- · 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	Dual Ethernet (1 POE), Serial, USB & Industrial Protocols	
Lighting	Red	
Resolution	2.3 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 (Typical Working Ranges)

	And the second s	1
Symbology/Resolution	Near	Far
S mil Code 128	3 in./8 cm	24 in 161 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 om	92 in./234 cn
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 on
FS40-WA-46' FOV Le	ns	7.
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
Footnotes		

sales representative for more information. 2. Refer to Product Reference Guide for complete its of symboliogies. 3. Printing resolution, contrast, power source, illumination source, and ambient light dependent. Specifications subject to change without notice.

#### xS40 Connections



Lighting

Ethernet	Connector



		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			
<b>N</b> in	Calor	Description	
	Brown	DC_OUT / GPIOB	
6	White	GP107	
	Blue	GND	
	Black	GPI06	
	Grey	ANALOG_OUT	
SHELL	Base	SHIELD	

#### Power and IO Connector



#### r and I/O Connector P

Pia :		Overrigtion	
1	Yellow	GPIO2	
2	White/Yellow	TXD	
3	Brown	RXD	
4	White/Brown	GPI04	
5	Violet	GPIOS	
6	White/Violet	COMMON_IN	
7	Red	DC_IN	
	Black	GND	
9	Green	COMMON_OUT	
10	Orange	GPIDO	
	Blue	GPI01	
12	Grey	GPI03	
Sector .		daugh B	

### **Specifications**

FS40-SR-30" FOV Le	ns	
Symbology/Resolution	Near	Far
S mil Code 128	3 in./8 cm	24 in /61 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 ch
30 mil DataMatrix	3 mJ8 cm	78 in./198 of
F\$40-WA-46' FOV L	ens	7
Symbology/Resolution	Near	Far
5 mil Code 128	3 in /8 cm	14 in./36 cm
10 mil Code 128	3 km/8 cm	30 in./76 cm
15 mil Code 128	3 in /8 cm	42 in./107 cn
20 mil Code 128	3 in /8 cm	56 in/142 cm
S 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 or

sales representative for more information. 2. Refer to Product Reference Guide for complete list of symbologies. 3. Privring resolution, contrast, power source, illumination source, and ambient light dependent.

subject to change without notice

#### xS40 Connections



#### Ethernet Connector





	Description
1	TP%+
2	TP5-
3	TP2+
4	тр2-
5	TP4+
6	TP4-
7	TP3-
8	TP3+
SHELL	SHIELD

#### External Light Connector



		Description	
1	Brown	DC_OUT / GPIO8	
2	White	GPI07	
2	Blue	GND	
4	Black	GPI06	
5	Grey	ANALOG_OUT	
SHELL	Bare	SHIELD	

Power and IO Connector



Table: Power and I/O Connector Pinout Diagram

- <b>PIB</b>	Cerer	Description
1	Yellow	GPIO2
2	White/Yellow	TXD
3	Brown	RXD
4	White/Brown	GP104
s	Violet	GPI05
6	White/Violet	COMMON_IN
7	Red	DC_IN
	Black	GND
9	Green	COMMON_OUT
10	Orange	GPIDO
	Blue	GPI01
12	Grey	GPI03
SHELL	Bare	SHIELD