

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

ZEBRA FS40 SMART CAMERA

FS40-WA20D4-3X00W FS40, WIDE ANGLE, 2.3 MP, DPM, 2D, WHITE, RGB **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 | Ethernet with POE, Serial, USB & Industrial Protocols |
| Lighting | White |
| 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 (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 |

- Procureoss

 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 |
| | | |

Specifications

| Decode Ranges (Typic | al Working Ranger | 43 |
|----------------------|-------------------|----------------|
| FS40-SR-30" FOV Let | ns . | City |
| Symbology/Resolution | Near | Far |
| S mil Code 128 | 3 in./8 cm | 24 in 761 cm |
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| 15 mil Code 128 | 3 in /8 cm | 70 in /178 cm |
| 20 mil Code 128 | 3 in./8 cm | 92 in./234 cm |
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| 10 mil DataMatrix | 3 in./8 cm | 28 in./71 cm |
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| 30 mil DataMatrix | 3 in /8 cm | 78 in./198 cm |
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| Symbology/Resolution | Near | Far |
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| 10 mil DataMatrix | 3 in /8 cm | 18 in./46 cm |
| | | 200 |

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

- Footnotes

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xS40 Connections



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| 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 |