

## FS42

En kamera designad för deep learning OCR

FS42-SR51F4-2C00W  
Standard Range, 5 MP, Fast 2D Barcode Decoder, Red LED

- Upplösning: 2.3 Megapixel
- Pixelstorlek: 3.0  $\mu\text{m}$
- Bildhastighet: 60 fps
- Integrerad fokus och belysning
- NPU för ökad prestanda



### PRODUKTBESKRIVNING

### TEKNISK DATA

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Belysning             | Röd                                                   |
| Bildfrekvens max      | 42                                                    |
| Fokus                 | Liquid lens                                           |
| Interface out         | Ethernet with POE, Serial, USB & Industrial Protocols |
| JavaScript-stöd       | Ja                                                    |
| Linstyp               | Standard range                                        |
| Luftfuktighet         | 5% to 90% RH, non-condensing                          |
| PC-utvecklingsverktyg | Aurora Focus                                          |
| Pixelstorlek          | 2.2 x 2.2 $\mu\text{m}$                               |
| Storlek               | 54.0 x 64.0 x 91.4 mm                                 |
| Typ av scanner        | Fixed Scanner                                         |

### Decode Ranges (Typical Working Ranges)<sup>3</sup>

#### FS42-SR—30° FOV Lens

| Symbology/Resolution | Near       | SMP-SR Far    |
|----------------------|------------|---------------|
| 5 mil Code 128       | 3 in./8 cm | 33 in/83 cm   |
| 10 mil Code 128      | 3 in./8 cm | 65 in/166 cm  |
| 15 mil Code 128      | 3 in./8 cm | 98 in/249 cm  |
| 20 mil Code 128      | 3 in./8 cm | 131 in/332 cm |
| 5 mil DataMatrix     | 3 in./8 cm | 17 in/44 cm   |
| 10 mil DataMatrix    | 3 in./8 cm | 35 in/89 cm   |
| 15 mil DataMatrix    | 3 in./8 cm | 52 in/133 cm  |
| 30 mil DataMatrix    | 3 in./8 cm | 105 in/267 cm |

#### FS42-WA—46° FOV Lens

| Symbology/Resolution | Near       | SMP-WA Far   |
|----------------------|------------|--------------|
| 5 mil Code 128       | 3 in./8 cm | 20 in/52 cm  |
| 10 mil Code 128      | 3 in./8 cm | 41 in/104 cm |
| 15 mil Code 128      | 3 in./8 cm | 62 in/157 cm |
| 20 mil Code 128      | 3 in./8 cm | 82 in/209 cm |
| 5 mil DataMatrix     | 3 in./8 cm | 11 in/28 cm  |
| 10 mil DataMatrix    | 3 in./8 cm | 22 in/56 cm  |
| 15 mil DataMatrix    | 3 in./8 cm | 33 in/84 cm  |
| 30 mil DataMatrix    | 3 in./8 cm | 66 in/168 cm |

### Connections

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



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

### 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       |
| SHELL | Bare         | SHIELD      |

### 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         |

### Decode Ranges (Typical Working Ranges)<sup>3</sup>

#### FS42-SR—30° FOV Lens

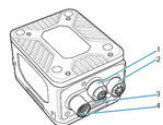
| Symbology/Resolution | Near       | SMP-SR Far    |
|----------------------|------------|---------------|
| 5 mil Code 128       | 3 in./8 cm | 33 in/83 cm   |
| 10 mil Code 128      | 3 in./8 cm | 65 in/166 cm  |
| 15 mil Code 128      | 3 in./8 cm | 98 in/249 cm  |
| 20 mil Code 128      | 3 in./8 cm | 131 in/332 cm |
| 5 mil DataMatrix     | 3 in./8 cm | 17 in/44 cm   |
| 10 mil DataMatrix    | 3 in./8 cm | 35 in/89 cm   |
| 15 mil DataMatrix    | 3 in./8 cm | 52 in/133 cm  |
| 30 mil DataMatrix    | 3 in./8 cm | 105 in/267 cm |

#### FS42-WA—46° FOV Lens

| Symbology/Resolution | Near       | SMP-WA Far   |
|----------------------|------------|--------------|
| 5 mil Code 128       | 3 in./8 cm | 20 in/52 cm  |
| 10 mil Code 128      | 3 in./8 cm | 41 in/104 cm |
| 15 mil Code 128      | 3 in./8 cm | 62 in/157 cm |
| 20 mil Code 128      | 3 in./8 cm | 82 in/209 cm |
| 5 mil DataMatrix     | 3 in./8 cm | 11 in/28 cm  |
| 10 mil DataMatrix    | 3 in./8 cm | 22 in/56 cm  |
| 15 mil DataMatrix    | 3 in./8 cm | 33 in/84 cm  |
| 30 mil DataMatrix    | 3 in./8 cm | 66 in/168 cm |

### Connections

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



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

### Power and IO Connector

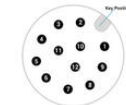


Table: Power and IO Connector Pinout Diagram

| 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       |
| SHELL | Bare         | SHIELD      |

### Ethernet Connector

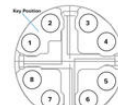


Table: Ethernet Connector Pinout Diagram

| 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         |