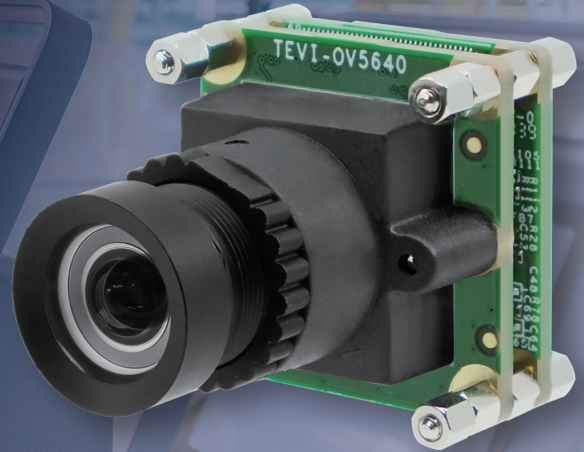


UVCI-OV5640

- Omnivision OV5640 5MP Rolling Shutter Sensor
- S-Mount for Interchangeable Lenses
- UVC USB Type-C 5 Gbps Connector
- Plug & Play with Windows & Linux OS
- Comes with VizionViewer™ Configuration Utility and VizionSDK



Specifications

Camera Information

| | |
|---------------------------|---|
| CMOS Sensor | OmniVision OV5640 |
| Active Pixels | 2592 (H) x 1944 (V) = 5MP |
| Pixel Size | 1.4 μm x 1.4 μm |
| Optical Format | 1/4" (Diagonal 4.6 mm) |
| Shutter Type | Rolling Shutter |
| Chromaticity | Color |
| Illuminated type | Back Side Illuminated (BSI) |
| Maximum Frame Rate (UYVY) | 2592 x 1944 @ 15 fps 1920 x 1080 @ 30 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps |
| Maximum S/N Ratio | 36 dB |
| Output Format | UYVY |

Camera Interface

| | |
|-----------|-------------------|
| Connector | USB Type-C 5 Gbps |
|-----------|-------------------|

Power

| | |
|-------------------|---------------------------------------|
| Supply Voltage | 5V \pm 5% |
| Power Consumption | UYVY 2592 x 1944 @ 15 fps \leq 0.9W |
| Standby Power | \leq 0.1W Standby |

Software Support

| | |
|------------------|--|
| Operation System | UVC Plug-and-play Windows 10/11 Linux Yocto |
| Software | VizionViewer™ |
| Development SDK | VizionSDK |

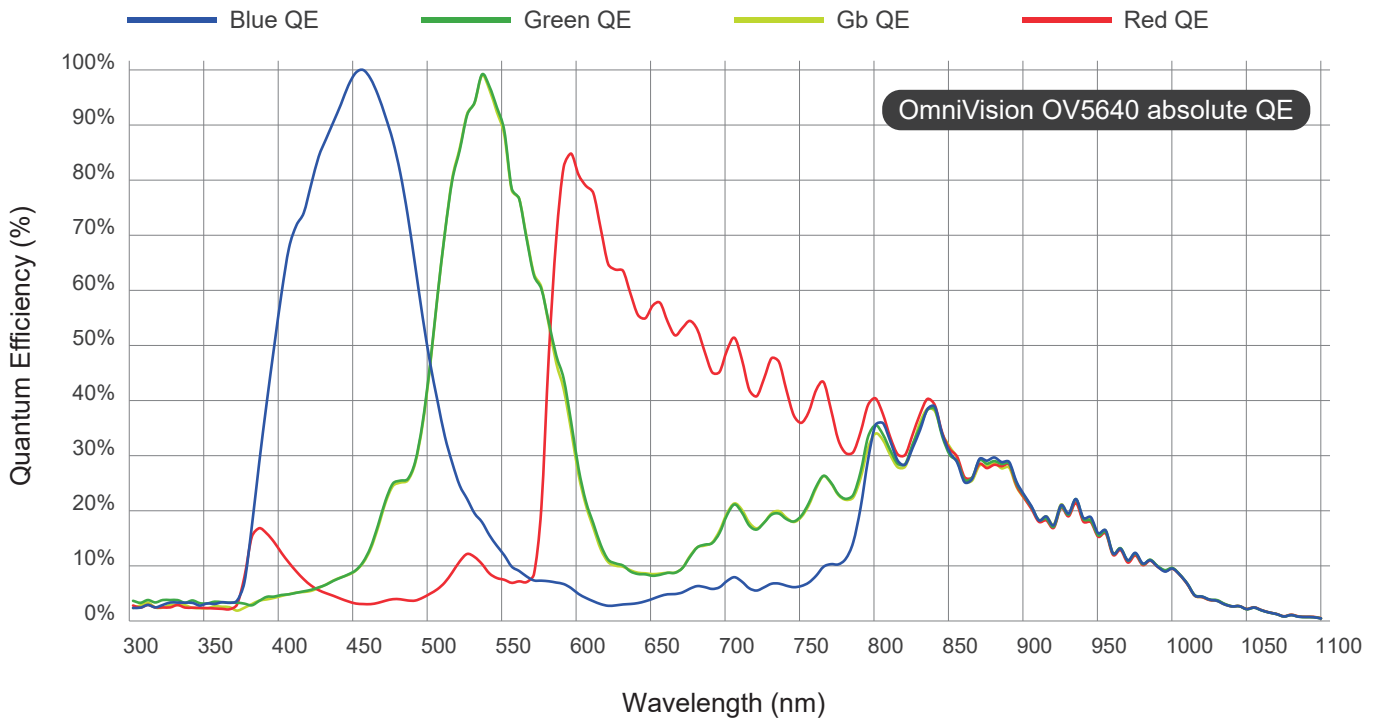
Environmental and Mechanical

| | |
|-----------------------|--------------------------------|
| Dimensions | 24.5(W) x 24.5(H) x 25.6(D) mm |
| Weight | 18 grams |
| Operating Temperature | -30°C to +70°C |

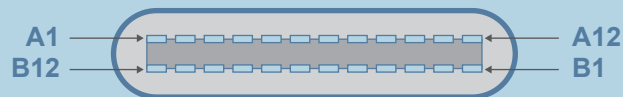
Certification and Compliance

| | |
|---------------|---|
| Certification | Compliant with CE / FCC / RoHS / REACH directives |
|---------------|---|

Spectral Characteristics

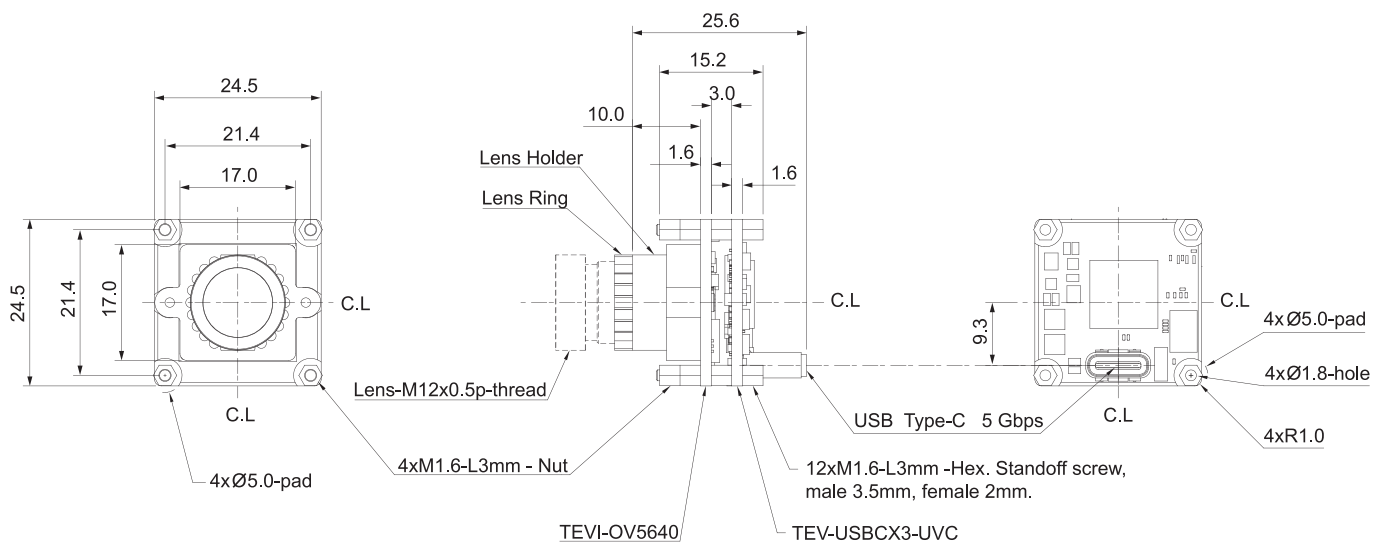


Connector Pin Definition

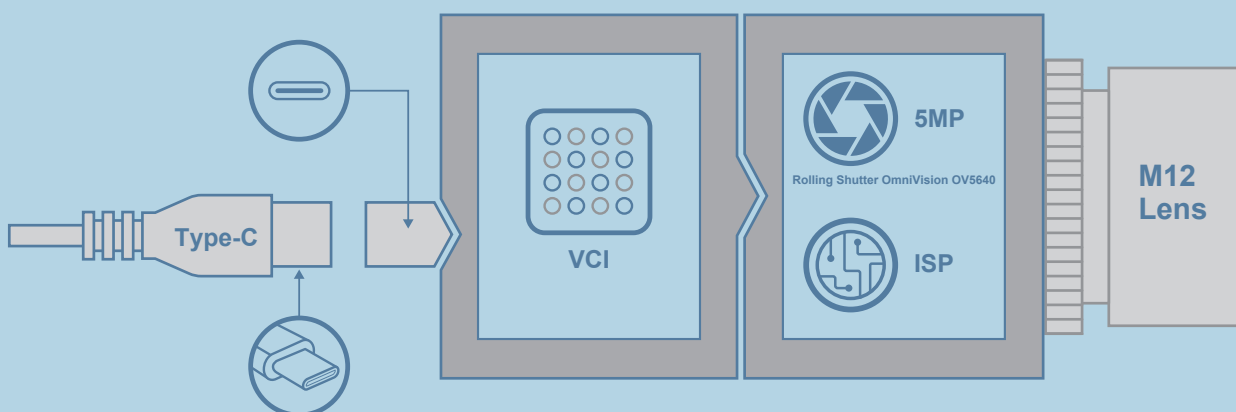


| | | | |
|------------|-------|------------|-------|
| A1 | GND | B12 | GND |
| A2 | TXP1 | B11 | RXP1 |
| A3 | TXN1 | B10 | RXN1 |
| A4 | VBUS1 | B9 | VBUS3 |
| A5 | CC1 | B8 | SBU2 |
| A6 | DP1 | B7 | DN2 |
| A7 | DN1 | B6 | DP2 |
| A8 | SBU1 | B5 | CC2 |
| A9 | VBUS2 | B4 | VBUS4 |
| A10 | RXN2 | B3 | TXN2 |
| A11 | RXP2 | B2 | TXP2 |
| A12 | GND | B1 | GND |

Dimensions (units in mm)



Block Diagram



Lens Information



UVCI-OV5640-C-S84-IR

| | |
|--------------|-------------|
| Focus Type | Fixed Focus |
| Focal Length | 2.85 mm |
| Aperture | F2.8 |
| Lens D-FOV | 84.0° |
| Lens H-FOV | 75.0° |
| Lens V-FOV | 58.0° |
| Module D-FOV | 83.8° ± 5% |
| Module H-FOV | 71.5° ± 5% |
| Module V-FOV | 56.9° ± 5% |
| TTL | 20 mm |
| BFL | 2.03 mm |
| MOD | 0.3 m |
| Distortion | < -0.35% |
| IR-Filter | 650 nm |

Order Information

UVCI-OV5640-x-Sxx-xx

Part Number Rules

| Option | Code | Description |
|--------------|------|--------------------------|
| Chromaticity | C | Color |
| Lens | S84 | S-Mount Module D-FOV 84° |
| Filter | - | - |
| | IR | IR Cut Filter 650nm |

For further customization or questions about orders, contact your TechNexion sales representative.

Optional Accessories

TEVI-MOUNT-BRACKET-A

An easy to attach A-Mount bracket for TechNexion TEVI cameras.



TEVI-MOUNT-BRACKET-A



TEVI-MOUNT-BRACKET-A on tripod
(tripod not included)