

## VCI-OV5640-SL

- 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 $\mu\text{m}$ x 1.4 $\mu\text{m}$
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

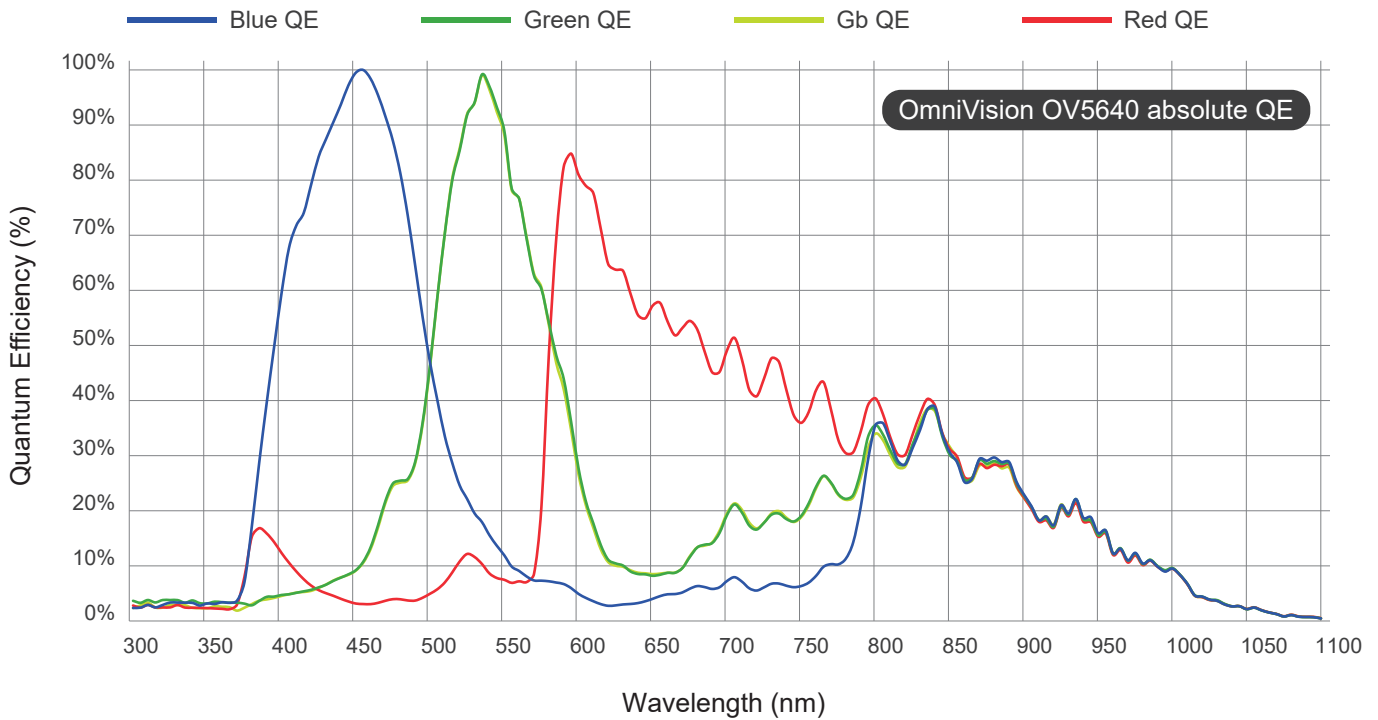
### Environmental and Mechanical

Dimensions	29.5(W) x 29.5(H) x 28.5(D) mm
Weight	44 grams
Relative Humidity	10 to 90 %
MTBF	50,000 Hours
Shock	15G half-sine 11 ms duration
Operating Temperature	-30°C to +70°C
Vibration	1 Grms random 5-500Hz hr/axis

### Certification and Compliance

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

# Spectral Characteristics

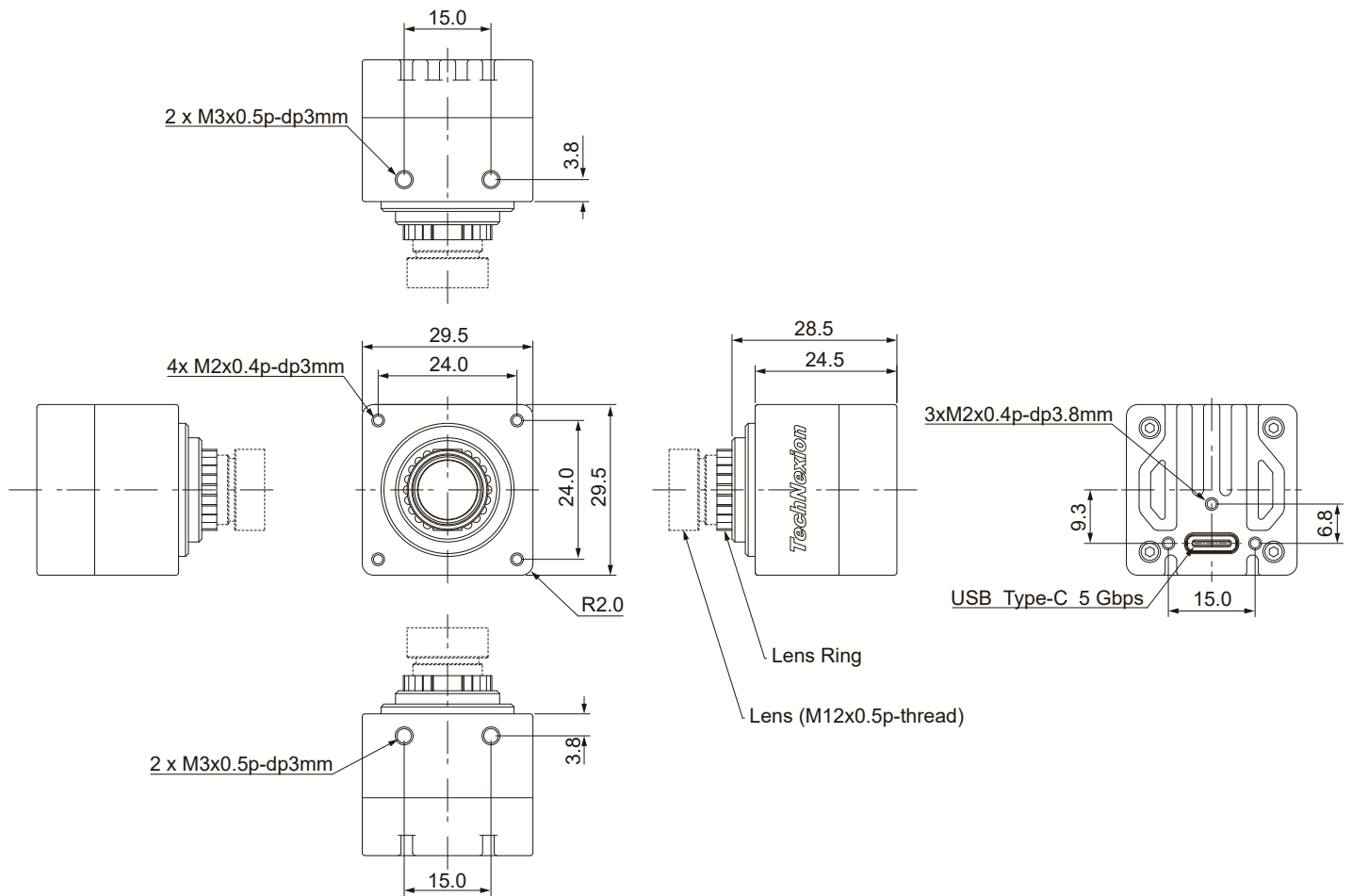


## Connector Pin Definition

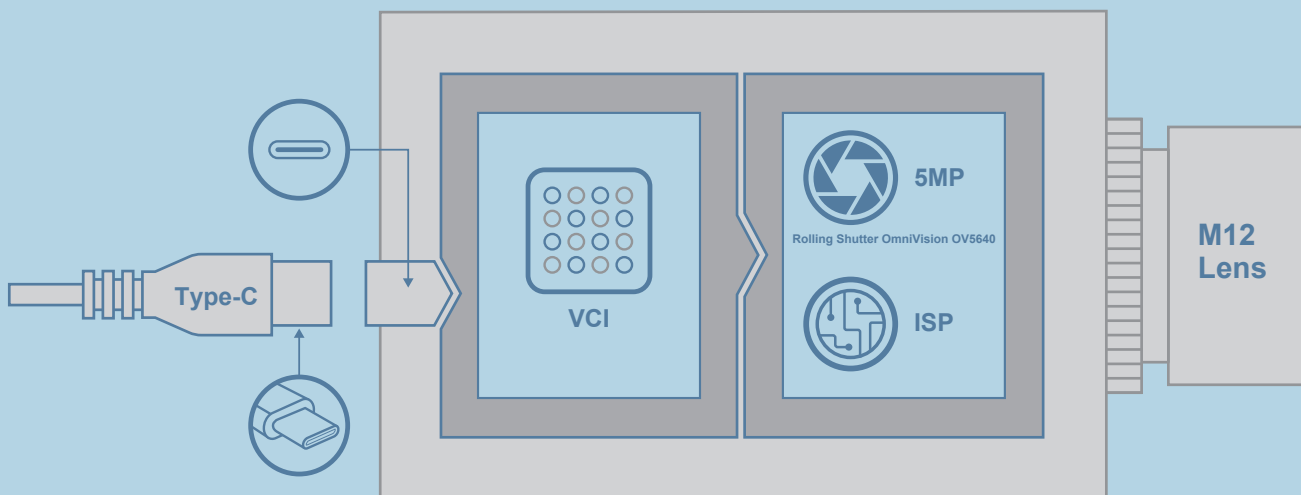


<b>A1</b>	GND	<b>B12</b>	GND
<b>A2</b>	TXP1	<b>B11</b>	RXP1
<b>A3</b>	TXN1	<b>B10</b>	RXN1
<b>A4</b>	VBUS1	<b>B9</b>	VBUS3
<b>A5</b>	CC1	<b>B8</b>	SBU2
<b>A6</b>	DP1	<b>B7</b>	DN2
<b>A7</b>	DN1	<b>B6</b>	DP2
<b>A8</b>	SBU1	<b>B5</b>	CC2
<b>A9</b>	VBUS2	<b>B4</b>	VBUS4
<b>A10</b>	RXN2	<b>B3</b>	TXN2
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

## Dimensions (units in mm)



## Block Diagram



## Lens Information



VCI-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

VCI-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

### 300-MOUNT-BRACKET

An easy to attach A-Mount bracket for TechNexion 30mm enclosed cameras.



300-MOUNT-BRACKET



300-MOUNT-BRACKET on tripod  
(tripod not included)