

# VCI-AR0144-CB

- onsemi AR0144 1MP Global Shutter Sensor
- C-Mount for Interchangeable Lenses
- UVC USB Type-C 5 Gbps Connector
- Plug & Play with Windows & Linux OS
- Comes with VizionViewer™ SDK



chNexion

### **Specifications**

#### **Camera Information**

CMOS Sensor	onsemi AR0144
Active Pixels	1280 (H) x 800 (V) = 1MP
Pixel Size	3.0 µm x 3.0 µm
Optical Format	1/4" (Diagonal 4.5 mm)
Shutter Type	Global Shutter
Chromaticity	Mono / Color
Illuminated type	Front Side Illuminated (FSI)
Maximum Frame Rate (MJPEG)	1280 x 800 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps
Maximum Frame Rate (UYVY)	1280 x 800 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps
Maximum S/N Ratio	38 dB
Output Format	UYVY MJPEG (JPG)

### **Camera Interface**

Connector

#### Power

Supply Voltage	5V ± 5%
Power Consumption	UYVY 1280 x 800 @ 60 fps ≤ 0.9W
Standby Power	≤ 0.1W Standby

USB Type-C 5 Gbps

#### **Software Support**

Operation Systems	UVC Plug-and-play Windows 10/11 Linux Yocto
SDK	VizionViewer™ SDK

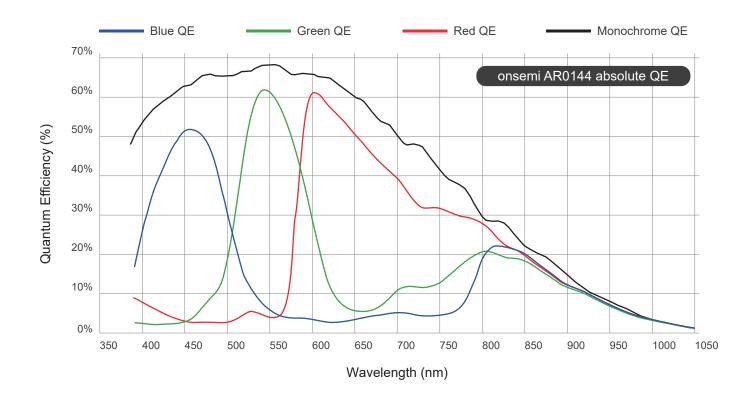
### **Environmental and Mechanical**

Dimensions	29.5(W) x 29.5(H) x 33.9(D) mm
Weight	39 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

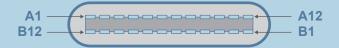
### **Certification and Compliance**

Certification	Compliant with CE / FCC / RoHS /
	REACH directives

# **Spectral Characteristics**



### **Connector Pin Definition**



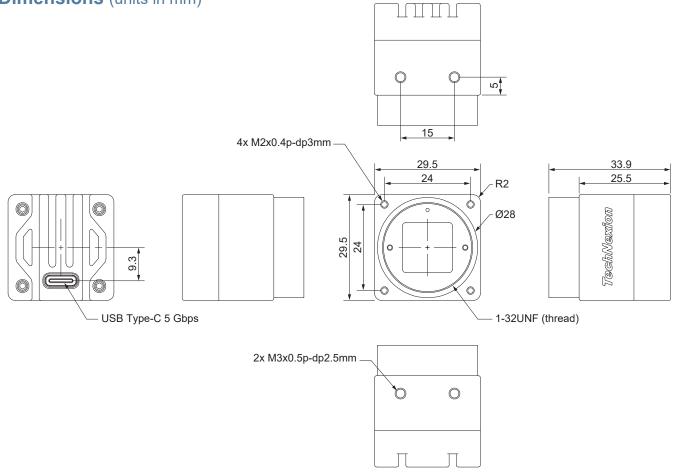
A1	GND	B12	GND
A2	TXP1	B11	RXP1
A3	TXN1	B10	RXN1
A4	VBUS1	B9	VBUS3
A5	CC1	B8	SBU2
A6	DP1	B7	DN2
A7	DN1	B6	DP2
<b>A</b> 8	SBU1	B5	CC2
A9	VBUS2	B4	VBUS4
A10	RXN2	B3	TXN2
A11	RXP2	B2	TXP2
A12	GND	B1	GND



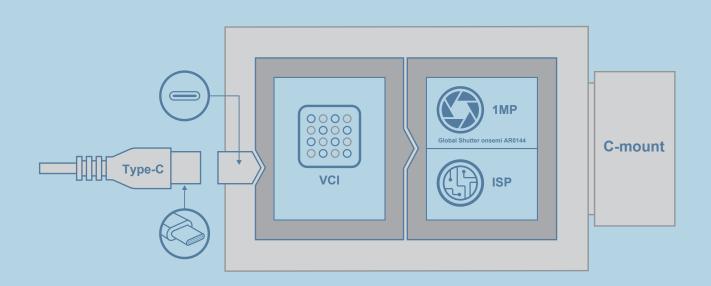
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## **Block Diagram**





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### **Order Information**

### VCI-AR0144-x-CB-xx

#### **Part Number Rules**

Option	Code	Description
Chromaticity	С	Color
	Μ	Monochrome
Filter	-	-
	IR	IR Cut Filter 650nm

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

### **Optional Accessories**

VCI-MOUNT-BRACKET-A An easy to attach A-Mount bracket for TechNexion USB3 cameras.



VCI-MOUNT-BRACKET-A



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

### **Custom Lens Solutions**



Our C-mount cameras can be paired with a variety of off-the-shelf lenses. Customers are welcome to choose their own, or alternatively our engineers are on standby to assist with selecting the right camera lens for different applications.

For more information. Please contact your TechNexion sales representative to start a discussion on how we can help you.



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