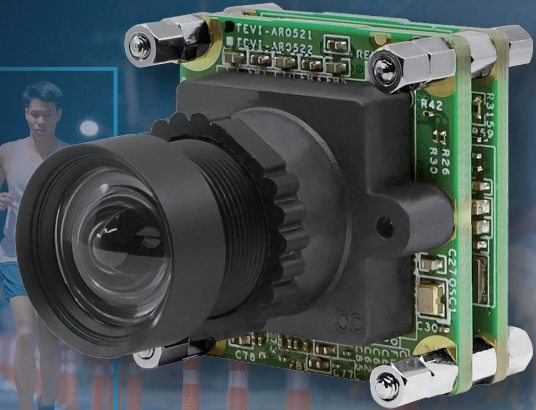


## UVCI-AR0521

- onsemi AR0521 5MP Rolling Shutter Sensor
- Designed for Low Light Applications
- S-Mount for Interchangeable Lenses
- UVC USB Type-C 5 Gbps Connector
- Plug & Play with Windows & Linux OS
- Comes with VizionViewer™ SDK



## Specifications

### Camera Information

CMOS Sensor	onsemi AR0521
Active Pixels	2592 (H) x 1944 (V) = 5MP
Pixel Size	2.2 μm x 2.2 μm
Optical Format	1/2.5" (Diagonal 7.13 mm)
Shutter Type	Rolling Shutter
Chromaticity	Mono / Color
Illuminated type	Back Side Illuminated (BSI)
Maximum Frame Rate (MJPEG)	2592 x 1944 @ 60 fps 2560 x 1440 @ 60 fps 1920 x 1080 @ 60 fps 1280 x 960 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps
Maximum Frame Rate (UYVY)	2592 x 1944 @ 24 fps 2560 x 1440 @ 32 fps 1920 x 1080 @ 60 fps 1280 x 960 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps
Maximum S/N Ratio	40 dB
Output Format	UYVY MJPEG (JPG)

### Camera Interface

Connector	USB Type-C 5 Gbps
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### Power

Supply Voltage	5V ± 5%
Power Consumption	UYVY 2592 x 1944 @ 24 fps ≤ 1.2W
Standby Power	≤ 0.1W Standby

### Software Support

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

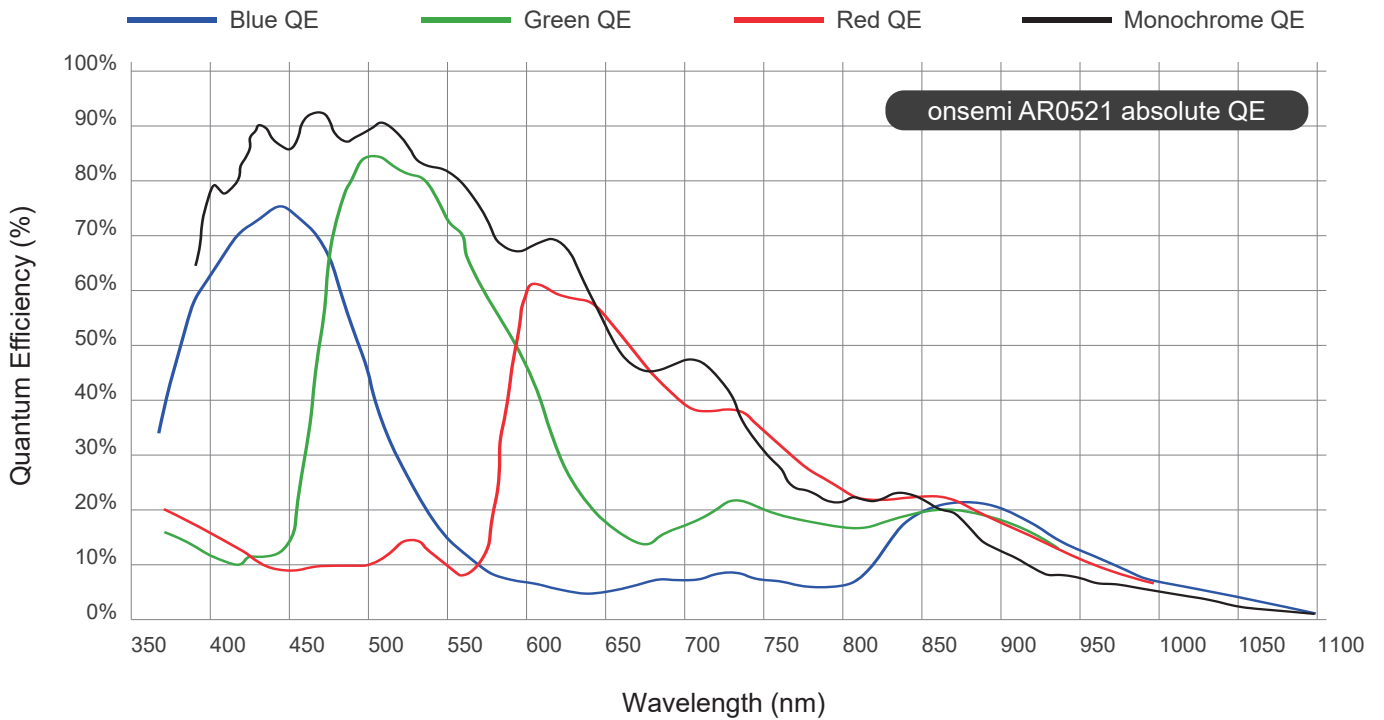
### Environmental and Mechanical

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

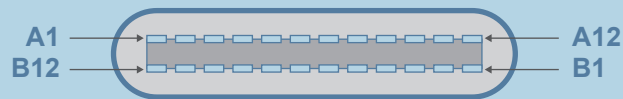
### Certification and Compliance

Certification	Compliant with CE / FCC / RoHS / REACH directives
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# Spectral Characteristics

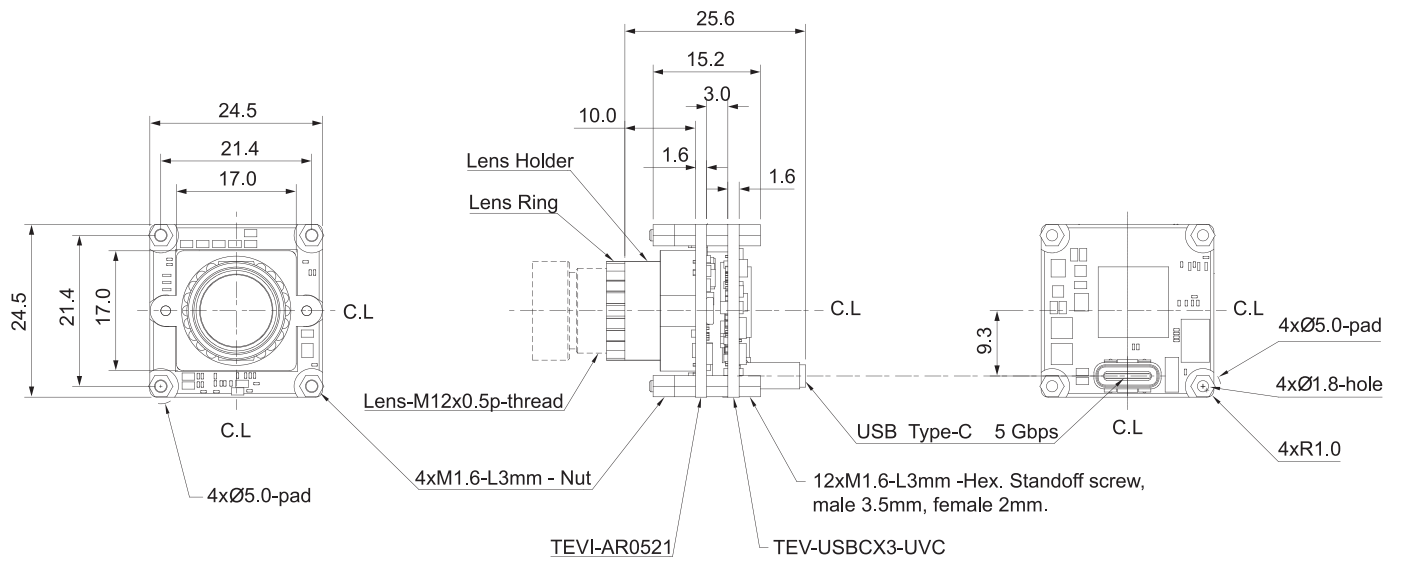


## Connector Pin Definition

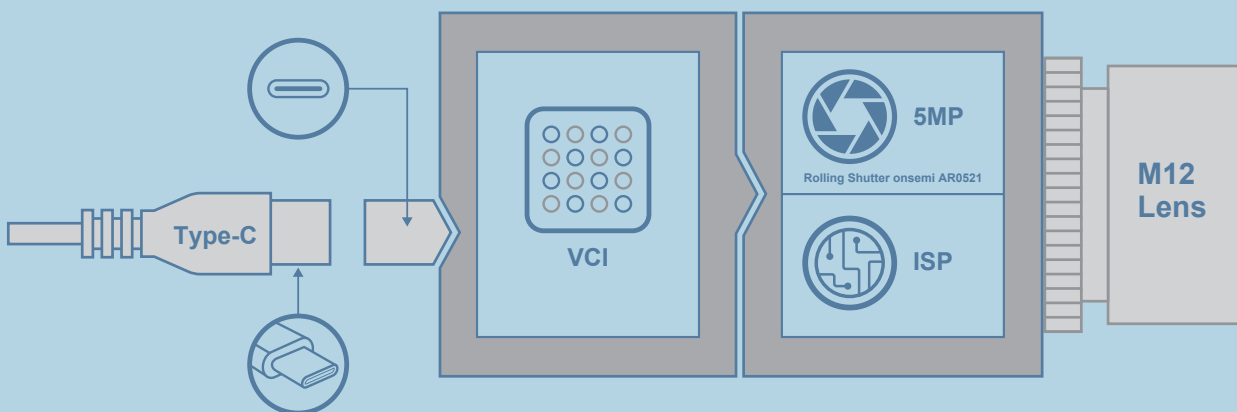


<b>A1</b>	GND	<b>B12</b>	GND
<b>A2</b>	TXP1	<b>B11</b>	RXP1
<b>A3</b>	TXN1	<b>B10</b>	RXN1
<b>A4</b>	VBUS1	<b>B9</b>	VBUS3
<b>A5</b>	CC1	<b>B8</b>	SBU2
<b>A6</b>	DP1	<b>B7</b>	DN2
<b>A7</b>	DN1	<b>B6</b>	DP2
<b>A8</b>	SBU1	<b>B5</b>	CC2
<b>A9</b>	VBUS2	<b>B4</b>	VBUS4
<b>A10</b>	RXN2	<b>B3</b>	TXN2
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

## Dimensions (units in mm)



## Block Diagram



# Lenses

## Lens Information

Focus Type	Fixed Focus
Focal Length	3.9 mm
Aperture	F2.8
Lens D-FOV	96.0°
Lens H-FOV	80.0°
Lens V-FOV	60.0°
Module D-FOV	85.2° ± 5%
Module H-FOV	73.0° ± 5%
Module V-FOV	58.1° ± 5%
TTL	22 mm
BFL	4.54 mm
MOD	0.3 m
Distortion	<1.26%
IR-Filter	650 nm
Lens Operating Temperature	- 20°C to +60°C

## Order Information

**UVCI-AR0521-x-Sxx-xx**

### Part Number Rules

Option	Code	Description
Chromaticity	C	Color
	M	Monochrome
Lens	S85	S-Mount Module D-FOV 85°
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)