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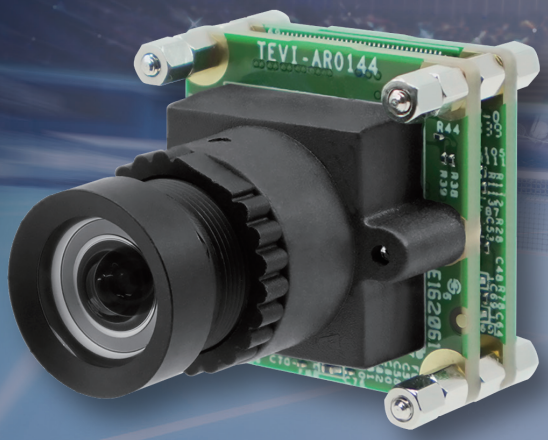
TechNexion
INNOVATORS OF TECHNOLOGY

UVCI-AR0144



- onsemi AR0144 1MP Global 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

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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	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	MJPEG (JPG) UYVY

Camera Interface

Connector	USB Type-C 5 Gbps

Power

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

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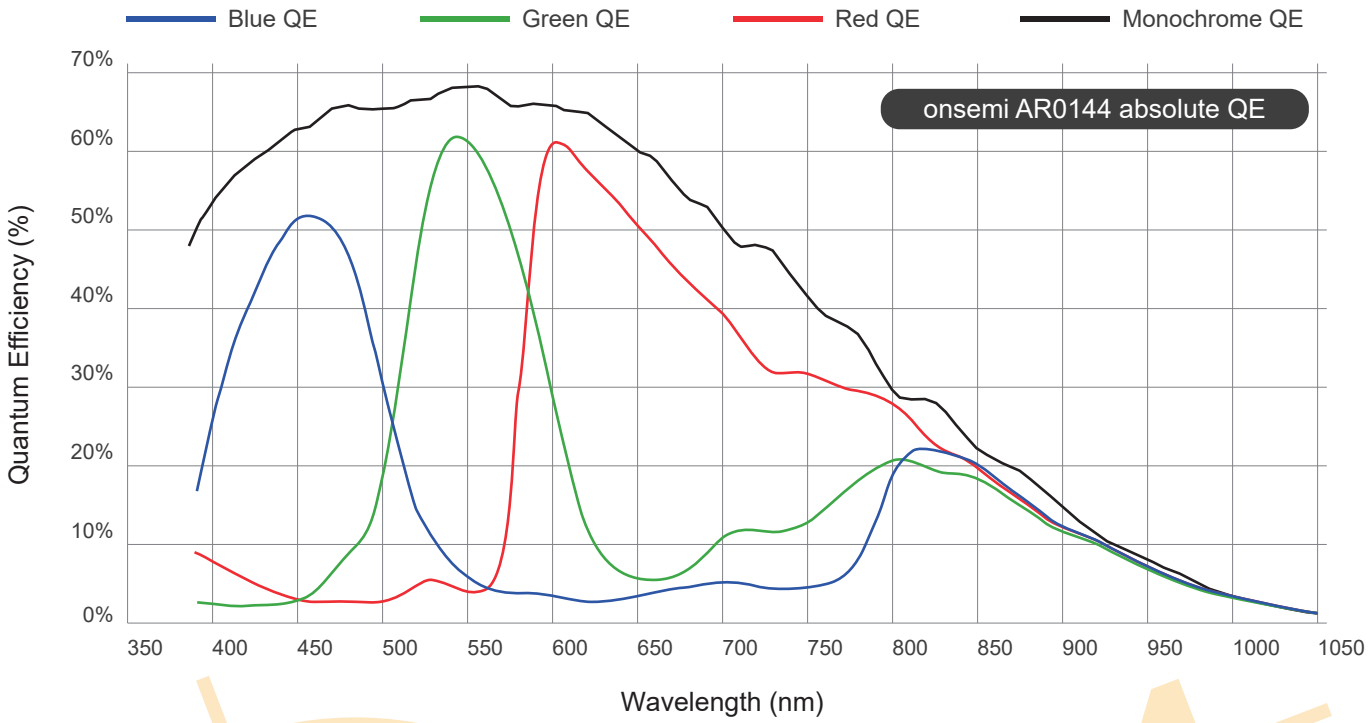
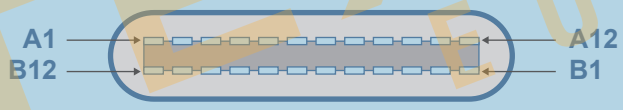
Spectral Characteristics



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

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For more information:
www.technexion.com
sales@technexion.com

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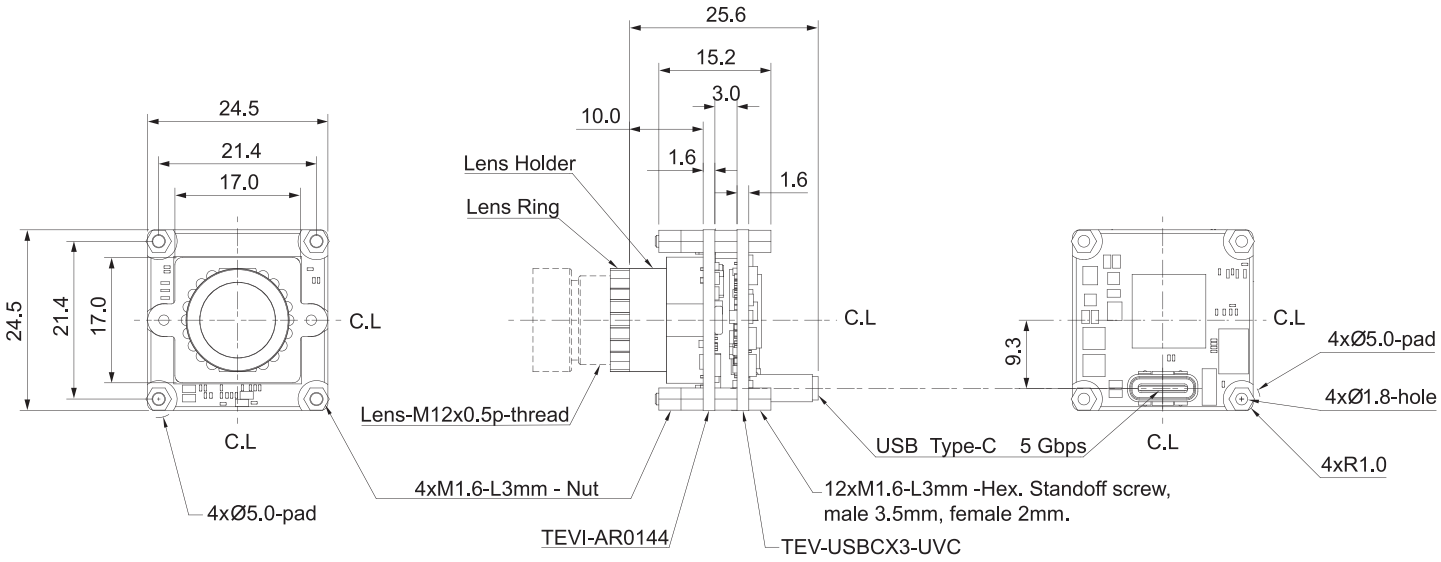
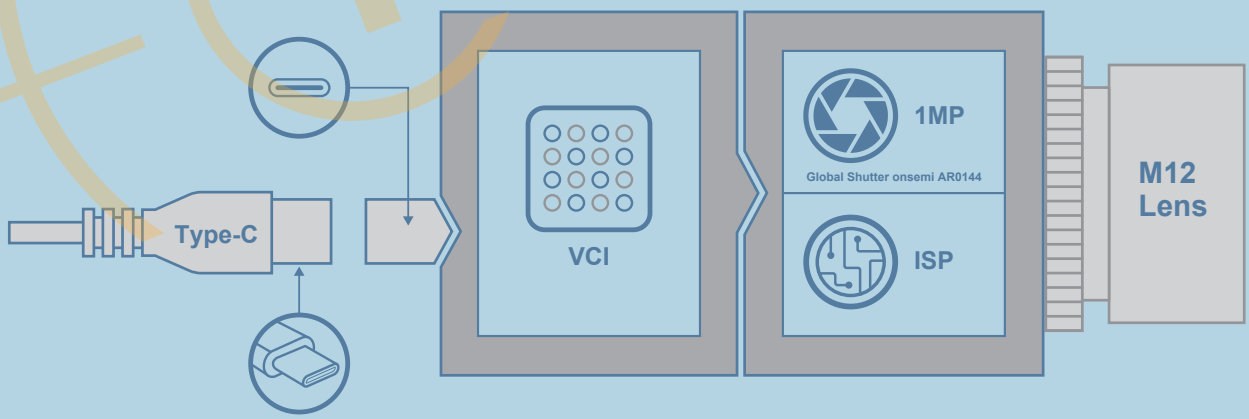
Dimensions (units in mm)



Block Diagram



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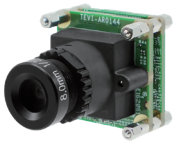
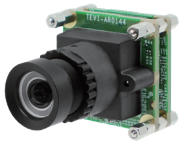
Lens Information

	 UVCI-AR0144-C-S33-IR	 UVCI-AR0144-C-S83-IR
Focus Type	Fixed Focus	Fixed Focus
Focal Length	8 mm	2.85 mm
Aperture	F1.8	F2.8
Lens D-FOV	34.0°	84.0°
Lens H-FOV	28.2°	75.0°
Lens V-FOV	17.5°	58.0°
Module D-FOV	33.1° ± 5%	82.6° ± 5%
Module H-FOV	28.0° ± 5%	73.5° ± 5%
Module V-FOV	17.4° ± 5%	50.3° ± 5%
TTL	25.22 mm	20 mm
BFL	6.92 mm	2.03 mm
MOD	0.2 m	0.3 m
Distortion	<-5.11%	< - 0.35%
IR-Filter	650 nm	650 nm

Order Information

UVCI-AR0144-x-Sxx-xx

Part Number Rules

Option	Code	Description
Chromaticity	C	Color
Lens	S33	S-Mount Module D-FOV 33°
	S83	S-Mount Module D-FOV 83°
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)

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All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.

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Texim Europe - contact details

Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com

The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com

Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com

UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com

Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com

Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com

Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com

Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com

Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com