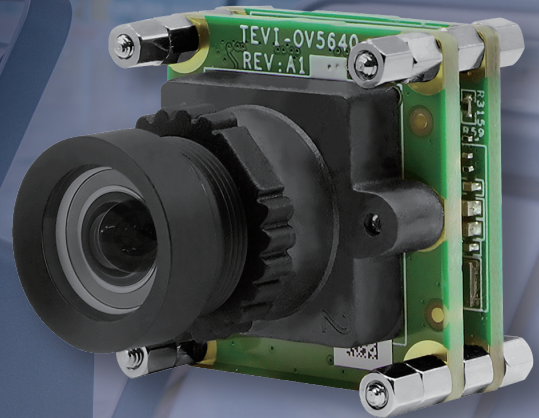


UVLI-OV5640

- Omnivision OV5640 5MP Rolling Shutter Sensor
- S-Mount for Interchangeable Lenses
- FAKRA Automotive Connector
- Plug & Play with Linux OS & Yocto



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	FAKRA SMB Jack Z-Code
Serial Link	FPD-Link III

Power

Supply Voltage	12V \pm 5%
Power Consumption	UYVY 2592 x 1944 @ 15 fps \leq 0.9W
Standby Power	\leq 0.1W Standby



yocto
PROJECT

Software Support

Platform Support	x86 Intel / AMD NXP i.MX8M Mini / Plus NXP i.MX93 TI Sitara™ AM62x / AM62A TI Jacinto™ TDA4VM / TDA4VA / TDA4VH NVIDIA Jetson Nano NVIDIA Xavier NX NVIDIA Orin Nano/NX
Operation Systems	Linux Yocto
SDK	VizionViewer™ SDK

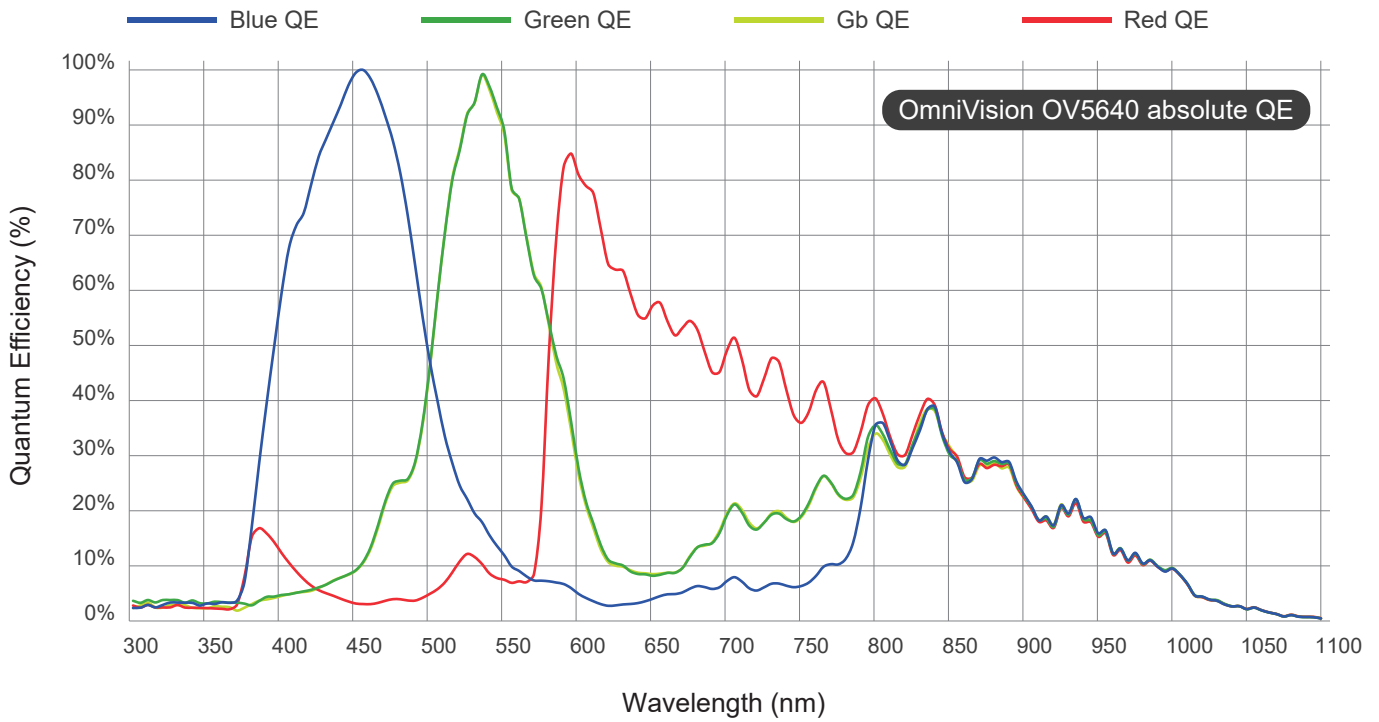
Environmental and Mechanical

Dimensions	24.5(W) x 24.5(H) x 30.0(D) mm
Weight	20 grams
Operating Temperature	-30°C to +70°C

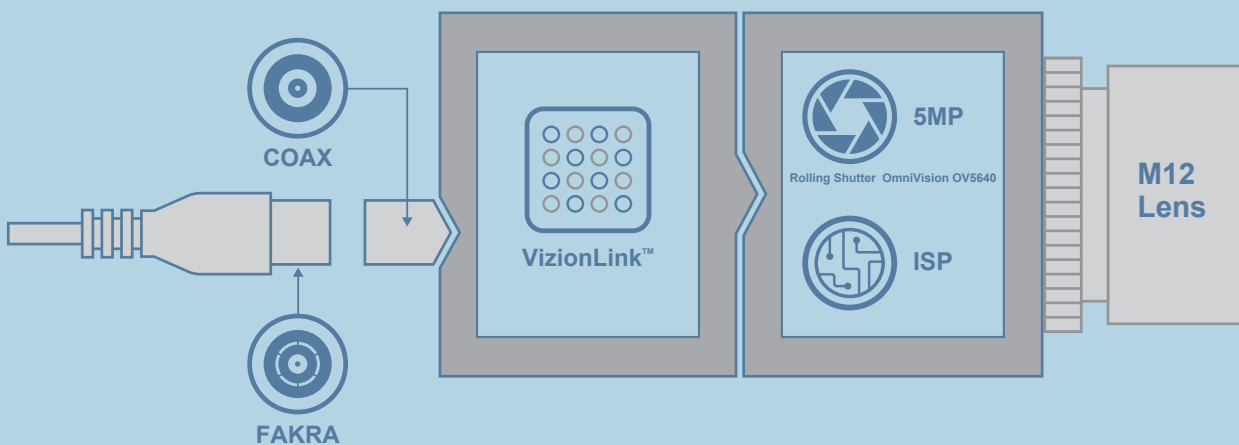
Certification and Compliance

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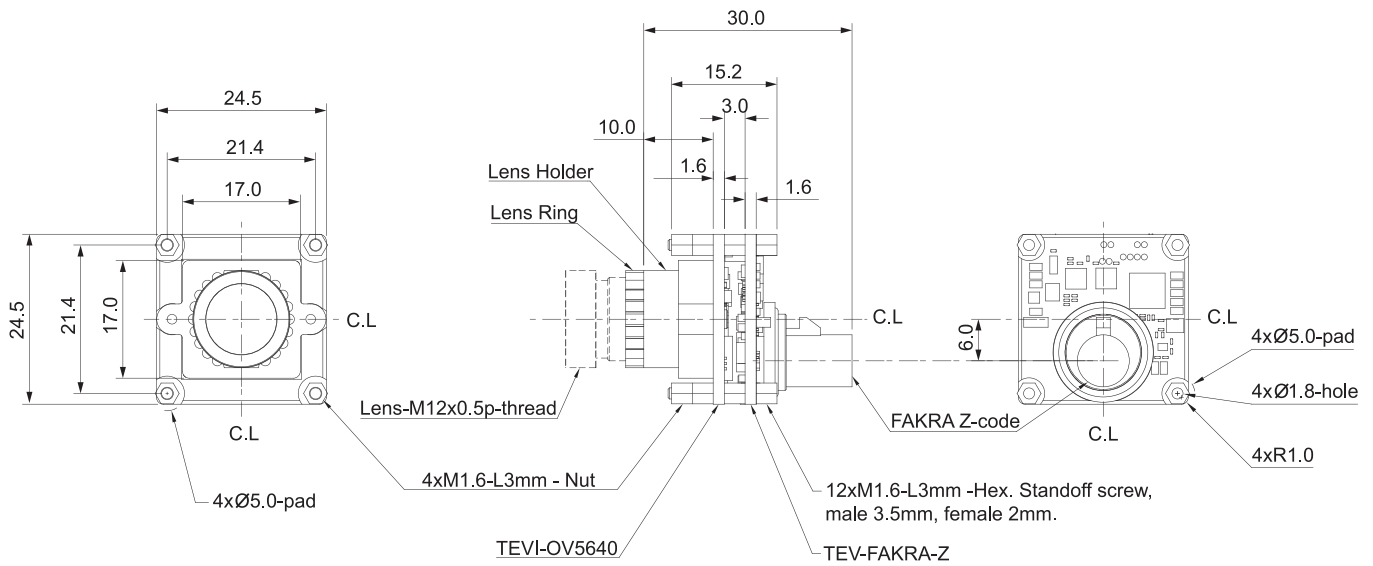
Spectral Characteristics



Block Diagram



Dimensions (units in mm)



Order Information

UVLI-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 customization, please 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)

Lenses

Lens Information

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
Lens Operating Temperature	- 20°C to +60°C

FPD-Link III Frame Grabbers

Adding TechNexion FPD-Link III cameras to an existing x86 Intel or AMD based system couldn't be easier by using our full range frame grabber cards.

- Available in 1 / 2 / 4 / 8 port FPD-Link III camera frame grabber configuration
- Fits in a standard PCI Express Gen 3 slot
- Plug-n-Play driver-less UVC based solution
- Complete Fanless design with brushed aluminium thermal solution
- Comes with TechNexion Vizionviewer™ SDK



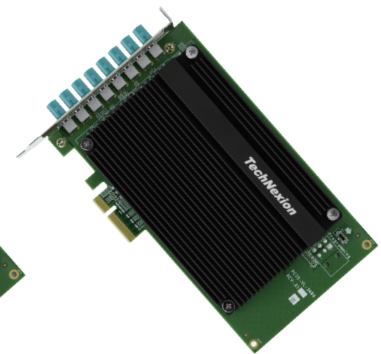
UVC-VL-3100



PCIE-VL-3120



PCIE-VL-3440



PCIE-VL-3480

TEK-8021-NX / TEK-60xx-ORIN

Nvidia Jetson NX/Orin Solutions



- Nvidia Xavier NX Systems
- Nvidia Orin Nano / NX Systems
- Up-to 24 FPD-Link III camera solutions
- Nvidia Jetpack driver integration
- TechNexion Vizionviewer™ SDK

TRAQ-4VM

Texas Instruments TDA4VM Robotic AMR Solution



- TI TDA4VM
- Up-to 8 FPD-Link III cameras
- FPD-Link III Display
- Single Pair Ethernet (SPE) sensor network extension
- Linux / Debian support
- TechNexion Vizionviewer™ SDK

TEP6-xxx-IMX8MP

NXP i.MX8M Plus based HMI Family



- NXP i.MX8M Plus HMI solution
- Available as 15" / 15.6" / 21.5" Display solution
- Up-to 2 FPD-Link III cameras
- FPD-Link III remote Display
- Linux / Debian / Android support
- TechNexion Vizionviewer™ SDK

TEK6-xxx-IMX8MP

NXP i.MX8M Plus based Edge Computing Gateway System



- NXP i.MX8M Plus Edge Computing
- Available with By-pass Ethernet solution
- Extensive low-speed I/O availability
 - GPIO / UART / CAN / USB
- Up-to 2 FPD-Link III cameras
- Linux / Debian / Android support
- TechNexion Vizionviewer™ SDK