UVLS-FPD3-AR0522

- onsemi AR0522 5MP Rolling Shutter Sensor
- Near Infra-Red Enhancement for Outdoor Applications
- Designed for Low Light Applications
- Convenient S-Mount (M12) interchangeable lens
- FAKRA Z-Code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer[™] configuration utility
- VizionSDK for custom development



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Camera Information

CMOS Sensor	onsemi AR0522
Active Pixels	2592 (H) x 1944 (V) = 5 MP
Pixel Size	2.2 μm x 2.2 μm
Illuminated Type	Back Side Illuminated (BSI)
Maximum S/N Ratio	40 dB
Optical Format	1/2.5" (Diagonal 7.13 mm)
Shutter Type	Rolling Shutter
Chromaticity	Color / Mono
Maximum Frame Rate (YUV422-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 @ 120 fps
Output Format	YUV422-UYVY RGB888 / RGB565 RAW8 / RAW10 / RAW12

Software Support

Platform Support	NVIDIA Jetson AGX Orin
	NVIDIA Jetson Orin Nano / NX
	NVIDIA Jetson Xavier NX
	NVIDIA Jetson Nano
	NXP i.MX95
	TI Sitara™ AM68 / AM69
	TI Jacinto™ TDA4VM / TDA4VH
Operation System	Linux
	Yocto
Software	VizionViewer™
Development SDK	VizionSDK

Environmental and Mechanical

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

Camera Interface

Serial Link	FPD-Link III
Serializer	TI DS90UB953
Connector	FAKRA SMB Jack Z-Code

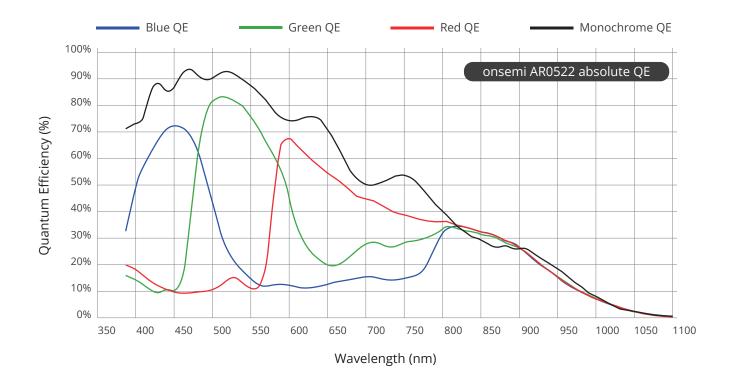
Power

Power over Coax	10.8V - 26.4V	
Power Consumption	2592 x 1944 @ 24 fps ≤ 1.2W	
Standby Power	≤ 0.1W Standby	

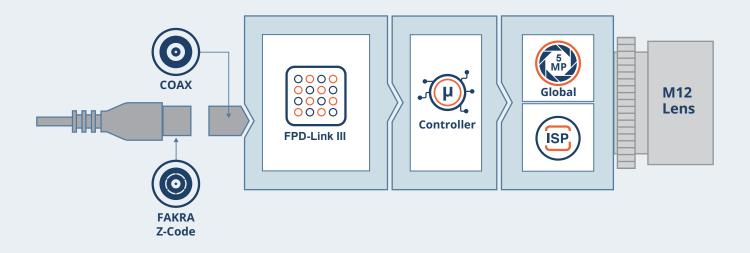
Certification and Compliance

Certification	Compliant with CE / FCC / RoHS /
	REACH directives

Spectral Characteristics



Block Diagram

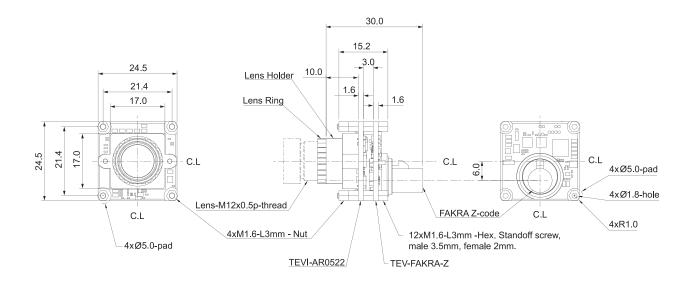




For more information: www.technexion.com sales@technexion.com

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Dimensions (units in mm)



Order Information UVLS-FPD3-AR0522-x-Sxx-xx-xxxx

Option	Code	Description
Chromaticity	С	Color
	Μ	Monochrome
Lens	S34	S-Mount Module D-FOV 34°
	S85	S-Mount Module D-FOV 85°
	S140	S-Mount Module D-FOV 140°
Filter	-	-
	IR	IR Cut Filter 650nm
Custom ID	XXXX	Custom Part number ID for customized Software loader and special component (BOM)

For customization, please contact your TechNexion sales representative.

Optional Accessories

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



245-MOUNT-BRACKET



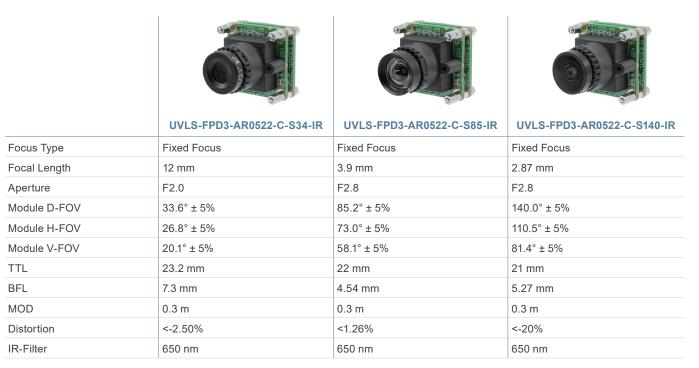
245-MOUNT-BRACKET on tripod (tripod not included)



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Custom Lens Solutions



FPD-Link III Frame Grabber

The ease of usage, benefits and integration of a FPD-Link III camera in embedded systems is often made complex by the lack of FPD-Link ports and connectors on the system. For those scenarios TechNexion developed a framegrabber that easily plug into a USB port and extend the system with FPD-Link interconnect.



Up to 15m

Up to 15 meters of data and power transmission over a single COAX cable.



UVC Compliant

Fully plug-n-play in Windows and Linux embedded systems.



Autodetect

Zero configuration required to detect any specific TechNexion FPD-Link camera by the framegrabber.



Software

Linux and Yocto systems are supported.



VizionViewer™

Easy to use software utility providing you with granular camera settings control.



VizionSDK

Hardcode and control your cameras with C# and Python code.











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