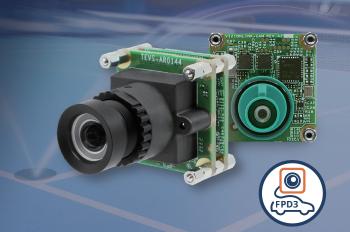


UVLS-FPD3-AR0144

- onsemi AR0144 1MP Global Shutter Sensor
- Captures high-speed dynamic targets clearly within an ultra-short exposure time.
- S-Mount for Interchangeable Lenses
- FAKRA Z-Code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer™ configuration utility
- VizionSDK for custom development







VizionSDK

VizionViewer™

Camera Information

CMOS Sensor	onsemi AR0144	
Active Pixels	1280 (H) x 800 (V) = 1 MP	
Pixel Size	3.0 µm x 3.0 µm	
Illuminated Type	Front Side Illuminated (FSI)	
Maximum S/N Ratio	38 dB	
Optical Format	1/4" (Diagonal 4.5 mm)	
Shutter Type	Global Shutter	
Chromaticity	Color	
Maximum Frame Rate (YUV422-UYVY)	1280 x 800 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps	
Output Format	YUV422-UYVY RGB888 / RGB565 RAW8 / RAW10 / RAW12	

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	1280 x 800 @ 60 fps ≤ 0.9W
Standby Power	≤ 0.1W Standby

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	

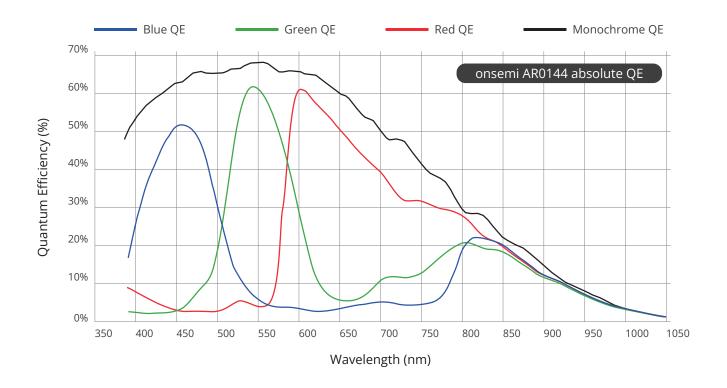
Environmental and Mechanical

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

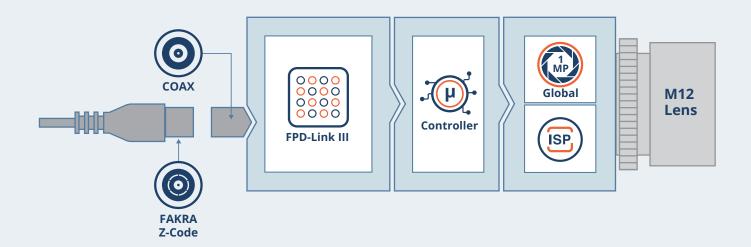
Certification and Compliance

Certification	Compliant with CE / FCC / RoHS /
	REACH directives

Spectral Characteristics

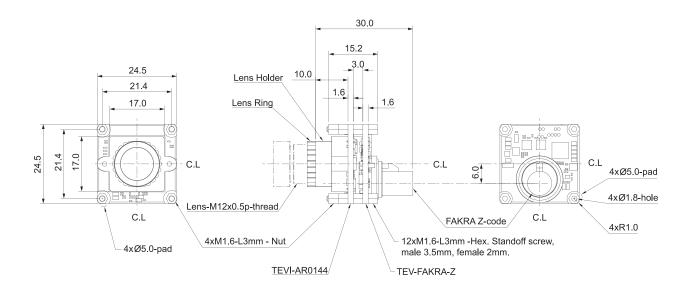


Block Diagram





Dimensions (units in mm)



Order Information

UVLS-FPD3-AR0144-x-Sxx-xx-xxxx

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



For more information:

mww.technexion.com

sales@technexion.com

Custom Lens Solutions







UVLS-FPD3-AR0144-C-S83-IR

Focus Type	Fixed Focus	Fixed Focus
Focal Length	8 mm	2.85 mm
Aperture	F1.8	F2.8
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	26.2 mm	20 mm
BFL	7.8 mm	2.03 mm
MOD	0.3 m	0.3 m
Distortion	<-5.03%	<-0.35%
IR-Filter	650 nm	650 nm

FPD-Link III Frame Grabbers

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 range of framegrabbers that easily plug into a USB port and extend the system with 1 to 4 FPD-Link interconnects.



1-4 Port

Connect up-to 4 FPD-Link cameras to a single USB port on your x86 or Arm based system.



Software

Linux and Yocto systems are supported.



UVC Compliant

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



VizionViewer™

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



Autodetect

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



VizionSDK

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









