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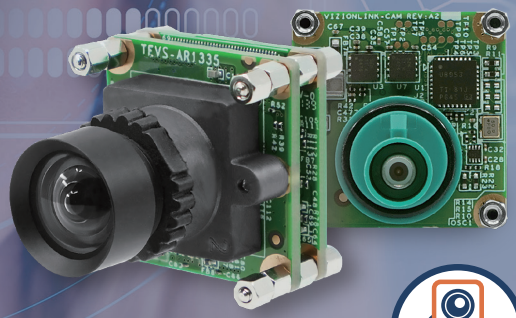
TechNexion
INNOVATORS OF TECHNOLOGY

UVLS-FPD3-AR1335

- onsemi AR1335 13MP Rolling Shutter Sensor
- 4K HDR Imaging for Low-Cost Applications
- S-Mount for Interchangeable Lenses
- FAKRA Z-Code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer™ configuration utility
- VizionSDK for custom development



FPD3

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VizionSDK VizionViewer™

Camera Information

CMOS Sensor	onsemi AR1335
Active Pixels	4208 (H) x 3120 (V) = 13 MP
Pixel Size	1.1 µm x 1.1 µm
Illuminated Type	Back Side Illuminated (BSI)
Maximum S/N Ratio	37 dB
Optical Format	1/3.2" (Diagonal 5.8 mm)
Shutter Type	Rolling Shutter
Chromaticity	Color
HDR Support	Yes
Maximum Frame Rate (YUV422-UYVY)	4208 x 3120 @ 10 fps 3840 x 2160 @ 15 fps 2560 x 1440 @ 30 fps 1920 x 1080 @ 60 fps 1280 x 720 @ 120 fps 640 x 480 @ 60 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	-30°C to + 70°C

Camera Interface

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

Certification and Compliance

Certification	Compliant with CE / FCC / RoHS / REACH directives

Power

Power over Coax	10.8V - 26.4V
Power Consumption	4200 x 3120 @ 12 fps ≤ 1.4W
Standby Power	≤ 0.3W Standby

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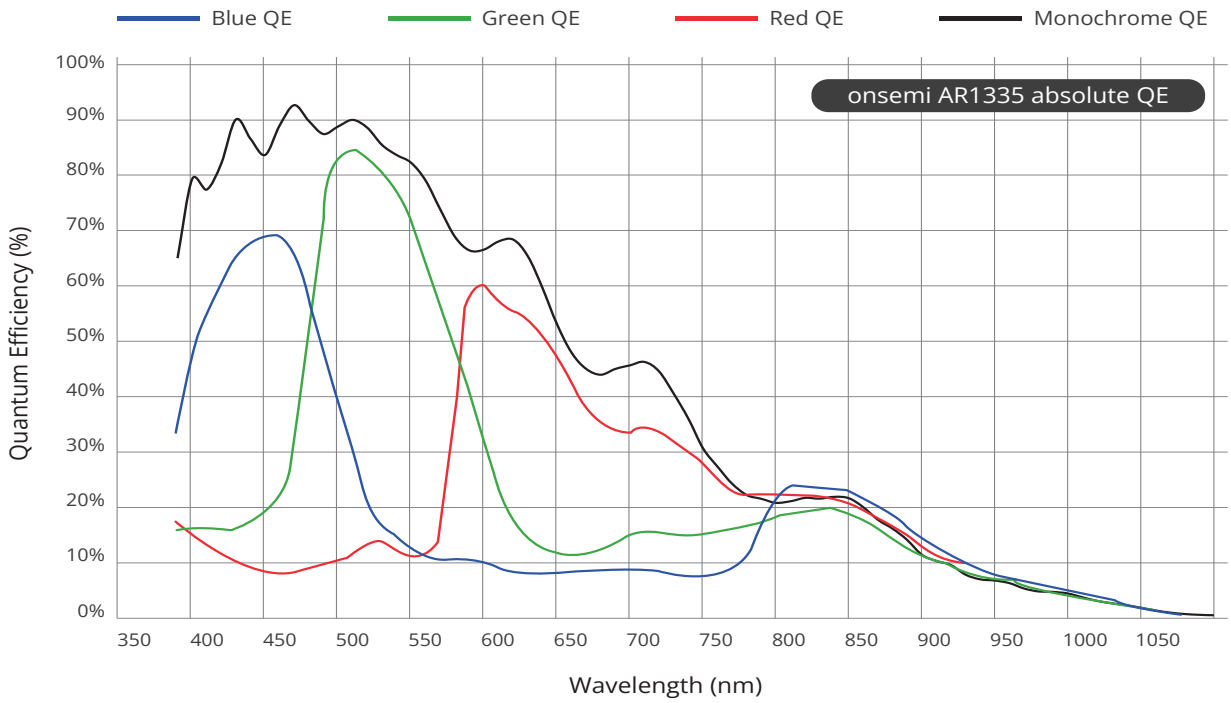
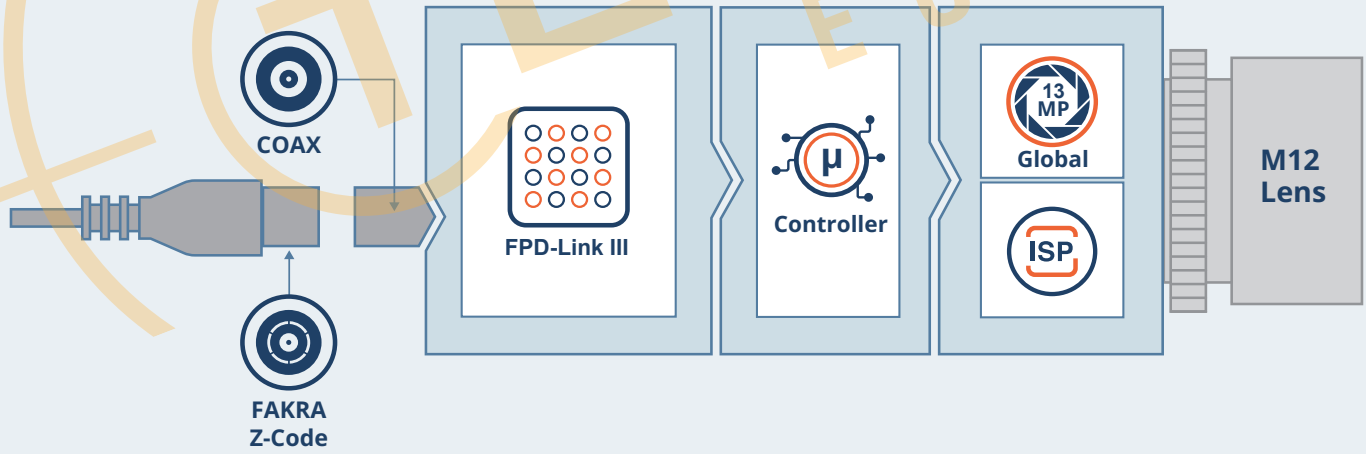
Spectral Characteristics



Block Diagram



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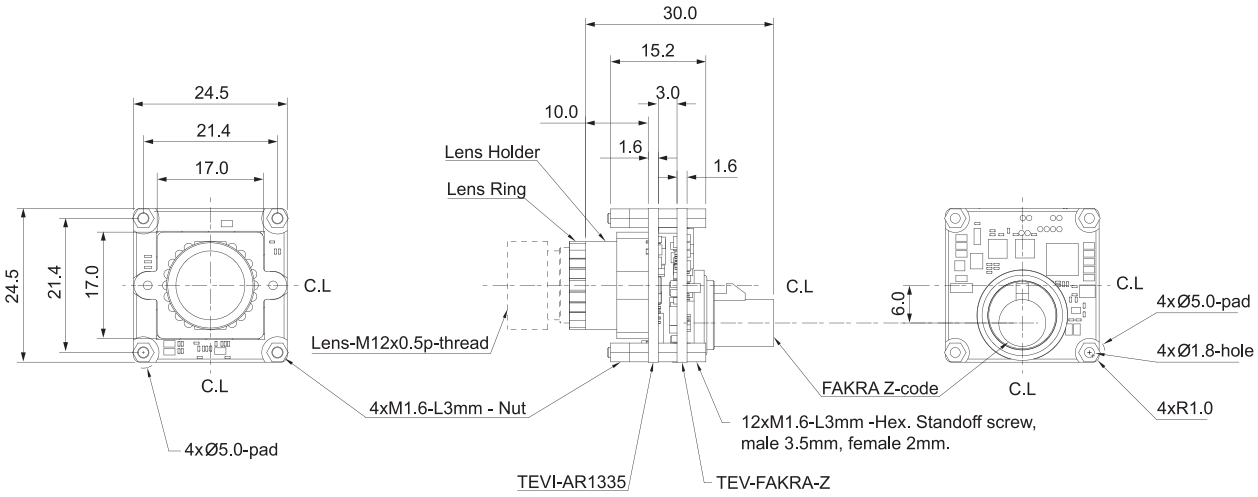
Dimensions (units in mm)



Order Information

UVLS-FPD3-AR1335-x-Sxx-xx-xxxx

Option	Code	Description
Chromaticity	C	Color
Lens	S85	S-Mount Module D-FOV 85°
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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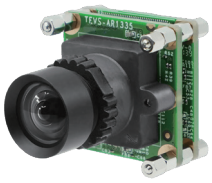
Custom Lens Solutions

	 UVLS-FPD3-AR1335-C-S85-IR
Focus Type	Fixed Focus
Focal Length	3.2 mm
Aperture	F2.4
Module D-FOV	84.6° ± 5%
Module H-FOV	70.3° ± 5%
Module V-FOV	55.2° ± 5%
TTL	22 mm
BFL	3.4 mm
MOD	0.3 m
Distortion	<1.6%
IR-Filter	650 nm

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.

Software

Linux and Yocto systems are supported.

UVC Compliant

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

VizionViewer™

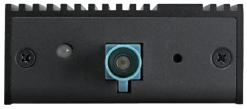
Easy to use software utility providing you with granular camera settings control.

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.



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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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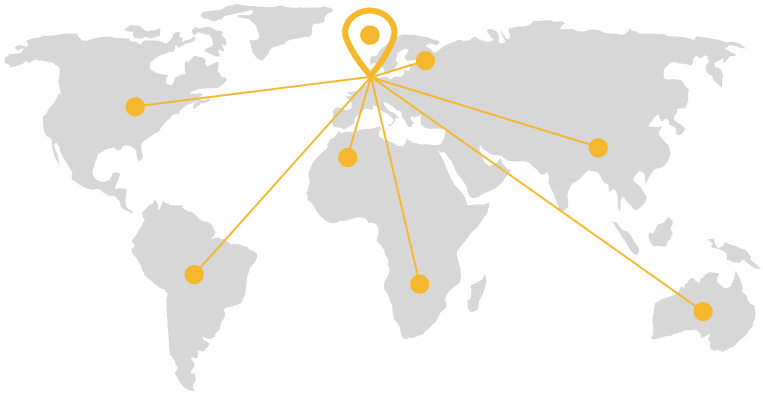

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