# VLS-GM2-AR0234-SL

- onsemi AR0234 2.3MP Global Shutter Sensor
- S-Mount for Interchangeable Lenses
- GMSL2<sup>™</sup> (Gigabit Multimedia Serial Link) interface
- FAKRA Z-Code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer<sup>™</sup> configuration utility
- VizionSDK for custom development



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#### **Camera Information**

CMOS Sensor	onsemi AR0234
Active Pixels	1920 (H) x 1200 (V) = 2.3 MP
Pixel Size	3.0 μm x 3.0 μm
Illuminated Type	Front Side Illuminated (FSI)
Maximum S/N Ratio	38 dB
Optical Format	1/2.6" (Diagonal 6.8 mm)
Shutter Type	Global Shutter
Chromaticity	Color
Maximum Frame Rate (YUV422-UYVY)	1920 x 1200 @ 60 fps 1920 x 1080 @ 60 fps 1280 x 720 @ 120 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
Operation System	Linux
	Yocto
Software	VizionViewer™
Development SDK	VizionSDK

#### **Environmental and Mechanical**

Dimensions	29.5(W) x 29.5(H) x 28(D) mm
Weight	≤ 45 grams
MTBF	50,000 Hours
Shock	15G half-sine 11 ms duration
Vibration	1 Grms random 5-500Hz hr/axis
Relative Humidity	10 to 90 %
Operating Temperatur	re -30°C to + 70°C

## **Camera Interface**

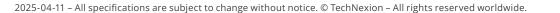
Serial Link	GMSL2
Serializer	MAX96717
Connector	FAKRA SMB Jack Z-Code

#### **Power**

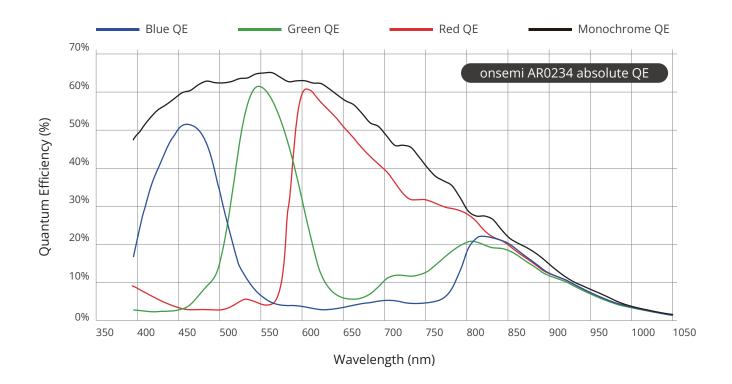
Power over Coax	10.8V - 26.4V
Power Consumption	1920 x 1200 @ 60 fps ≤ 1.25W
Standby Power	≤ 0.1W Standby

#### **Certification and Compliance**

Certification	Compliant with CE / FCC / RoHS /
	REACH directives



# **Spectral Characteristics**



# **Block Diagram**

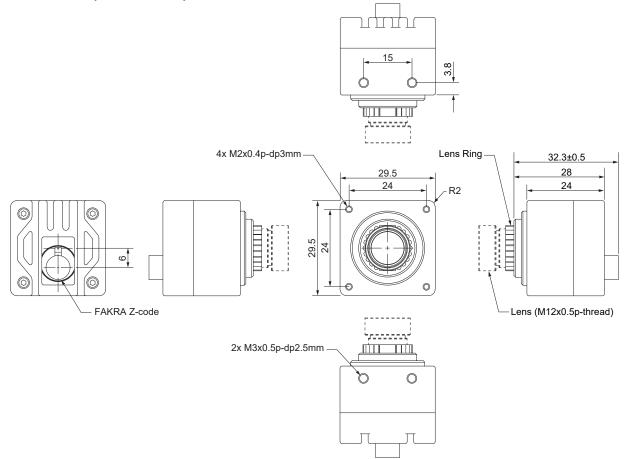




For more information: www.technexion.com sales@technexion.com

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# Dimensions (units in mm)



# Order Information VLS-GM2-AR0234-x-Sxx-xx-xxxx

Option	Code	Description
Chromaticity	С	Color
Lens	S32	S-Mount Module D-FOV 32°
	S83	S-Mount Module D-FOV 83°
	S128	S-Mount Module D-FOV 128°
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.



300-MOUNT-BRACKET



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



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# **Custom Lens Solutions**



# **GMSL2 Frame Grabbers**

The ease of usage, benefits and integration of a GMSL camera in embedded systems is often made complex by the lack of GMSL 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 GMSL interconnects.



#### 1-4 Port

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



UVC Compliant

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



## Autodetect

Zero configuration required to detect any specific TechNexion GMSL camera by the framegrabber.



Software

Linux and Windows 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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