

## 4.2.16 EHD331KMB-UMV

Table 4-26 EHD331KMB-UMV camera specification

Parameter	Model
	SWIR331KMB-UMV 0.33M pixels 3/4" InGaAs USBcamera
<b>Camera Parameters</b>	
Sensor model	InGaAs sensor 640×512
Sensor type	InGaAs CMOS
Spectral range	900nm - 1700nm
pixel size	15 μm x 15 μm
Target size	3/4"
ADC	14-bit
Frame Rate & Resolution	400@640×512
Memory	512MByte
QE	75%@ 1350nm
Conversion gain	138.6e-/ADU(LG), 5.54e-/ADU(MG), 1.2e-/ADU (HG)
Dynamic Range	70.59dB(LG), 67.96dB(MG), 47.98dB(HG) *1
Read noise	586.82e(LG), 35.05e(MG), 68.44e(HG)
Full well charge	1986.43 ke <sup>-</sup> (LG) , 87.65 ke <sup>-</sup> , (MG) , 17.15 ke <sup>-</sup> (HG) *1
Maximum SNR	62.98dB(LG), 49.43dB(MG), 42.34dB(HG)
Dark current	30fa@0.1V&18°C
Exposure time range	16μs~5s
Shutter mode	Global shutter
Data interface	USB3
Digital I/O	1 optocoupler isolated input, 1 optocoupler isolated output, tow non-isolated input and output
Data Format	Mono 8 / Mono 14 / Packet12
Optical filter	400-1800nm(default); 1030-1800nm(optional)
CRA	2.35 Deg
<b>General parameters</b>	
Power supply	12V Power adapter
Power consumption	TBD
Temperature	Working temperature -30 ~ 60 °C, storage temperature - 40 ~ 85 °C
Humidity	20%-80% , non-condensing
Size	45mm×45mm×64.5mm
Weight	TBD
Lens mount	C-mount interface
Software	Provide SDK development kit / EHDview

\*1: LG: CDS-OFF, DeNoise-ON; MG: CDS-ON, DeNoise-OFF; HG: CDS-ON, DeNoise-OFF.

## 4.2.17 EHD331KMB-GMV

Table 4-27 EHD331KMB-GMV camera specification

Parameter	Model
	SWIR331KMB-GMV 0.33Mpixels 3/4" InGaAs GigE camera
<b>Camera Parameters</b>	
Sensor model	InGaAs sensor 640×512
Sensor type	InGaAs CMOS
Spectral range	900nm-1700nm
pixel size	15μm x 15μm
Target size	3/4"
ADC	14bit
Frame Rate & Resolution	8 Bit:335fps@640 x 512 14 Bit:180fps@640 x 512
Memory	512MByte
QE	75%@ 1350nm
Conversion gain	138.6e-/ADU(LG), 5.54e-/ADU(MG), 1.2e-/ADU (HG)
Dynamic Range	70.59dB(LG), 67.96dB(MG), 47.98dB(HG) *1
Read noise	586.82e(LG), 35.05e(MG), 68.44e(HG)
Full well charge	1986.43 ke <sup>-</sup> (LG), 87.65 ke <sup>-</sup> , (MG), 17.15 ke <sup>-</sup> (HG) *1
Maximum SNR	62.98dB(LG), 49.43dB(MG), 42.34dB(HG)
Dark current	30fa@0.1V&18°C
Exposure time range	16μs~5s
Shutter mode	Global shutter
Data interface	GigE
Digital I/O	1 optocoupler isolated input, 1 optocoupler isolated output, tow non-isolated input and output
Data Format	Mono 8 / Mono 14
Optical filter	400-1800nm(default); 1030-1800nm(optional)
CRA	2.35 Deg
<b>General parameters</b>	
Power supply	12V Power adapter
Power consumption	5.8W (TEC OFF) / 6.3W (TEC ON)
Temperature	Working temperature -30 ~ 60 °C, storage temperature - 40 ~ 85 °C
Humidity	20%-80% , non-condensing
Size	45mm×45mm×64.5mm
Weight	TBD
Lens mount	C-mount interface
Software	Provide SDK development kit / EHDview

\*1: LG: CDS-OFF, DeNoise-ON; MG: CDS-ON, DeNoise-OFF; HG: CDS-ON, DeNoise-OFF.

