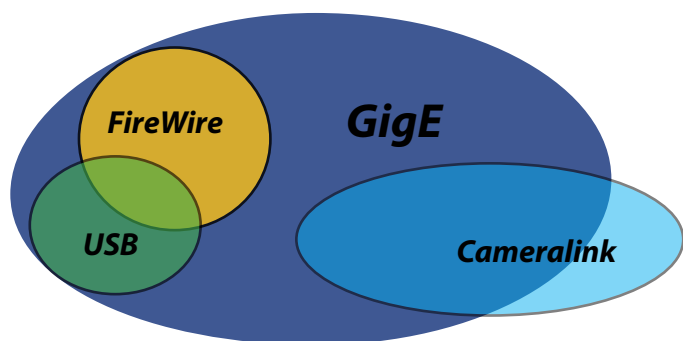




IMI's Amazon Family of cameras is compliant with both Gigabit Ethernet and with the GigE Vision standard. Fairly new in the image

processing industry, GigE is gaining more interest thanks to users who are familiar with the Ethernet interface and technology. This new interface is expected to lift the barriers of bandwidth limitation found in other interfaces such as FireWire and USB 2.0. It also resolves the limitation of cable length by supporting 100 meter distance with conventional CAT-5 cable.



The new GigE vision camera not only supports the traditional Machine Vision applications; but it also supports intelligent traffic systems, medical imaging, high-tech security and more.

As GigE is a relatively new standard, we expect more and more customers to demand new and additional feature support. We also expect a growing desire for software interoperability due to GigE's excellent network interface capability.

For this reason, IMI, unlike most of the other camera manufacturers, has developed its own GigE interface, both on the software side and hardware side. This approach will provide IMI with the intellectual freedom to fully meet our customer's requirements. We have designed our Amazon GigE series with an interesting array of image sensors to support non-traditional vision applications.

Our Amazon GigE Series currently consists of 16 Sony Sensors and 10 Kodak Sensors providing a wide range of GigE Vision cameras, and with still more to come. IMI believes that GigE can provide both flexibility and cost effective solutions for your applications.



Specification	IMx-7011G	IMx-7012G	IMx-7015G	IMx-7016G	IMx-7017G	IMx-7020G	IMx-7018G
Image Sensor	1/3" CCD ICX424 AQ/AL	1/2" CCD ICX414 AQ/AL	1/3" CCD ICX204 AK/AL	1/3" CCD ICX445 AQ/AL	1/2" CCD ICX267AK/AL	1/1.8" CCD ICX274 AQ/AL	2/3" CCD ICX285 AQ/AL
Picture Size	640(H) x 480(V)	640(H) x 480(V)	1024(H) x 768(V)	1292(H) x 960(V)	1388(H) x 1040(V) (*1388 x 1036)	1600(H) x 1200(V)	1388(H) x 1040(V) (*1388 x 1036)
Data Depth	8 bit or 12 bit B/W (*YUV 4:2:2 / YUV 4:1:1)						
Pixel Size	7.40 x 7.40 μm	9.9 x 9.9 μm	4.65 x 4.65 μm	4.65 x 4.65 μm	4.65 x 4.65 v	4.40 x 4.40 μm	6.45 x 6.45 μm
Max FPS / Max Res.	86 fps	60 fps	30 fps	30 fps	30 fps	16 fps	30 fps
Scanning System	Progressive Scan						
Binning	2x2 (only Mono)					2x2	2x2 (only Mono)
Format 7	Partial Scan (Unit: 4x4)						
Trigger	Edge	Rising Edge or Falling Edge					
	Mode	0, 1, 2, 3, 4, 5, 12, 13, 14, 15					
	Source	External Trigger or Software Trigger					
Strobe Output	Support Normal Mode or Trigger Mode.						
Memory Save/Load	9 Channels (0:factory, 1~4:feature, 5~8:mode/feature)						
SIO(RS-232)	Pass through or IMI-Tech Command						
Digital Interface	GigE Vision Interface compliant to GenICam						
Gain Control	0~ 18 dB (Manual or Auto)						
Shutter Speed	1 μsec ~ 3600 sec						
S/N Ratio	56 dB Better						
Control Functions	Brightness, Sharpness, Gamma, Auto-Exposure, Auto-gain, Auto-Shutter, (*U/B, V/R, Hue/G (digital gain), Auto White Balance)						
Lens Mount	C / CS Mount						
External Dimension	40(W) x 40(H) x 43.7(D) mm / 100 gram						40x 40x 47mm / approx. 125g



Specification	IMx-7003GK	IMx-7020GK	IMx-7050G	IMx-7040GK	IMx-7110GK	IMx-7160GK
Image Sensor	KAI-0340M	KAI-2093	2/3" ICX 625AL/AQ	KAI-4021M	KAI-11002M	KAI-16000M
Picture Size	640(H) x 480(V)	1920(H) x 1080(V)	2448(H) x 2048(V)	2048(H) x 2048(V)	4008(H) x 2672(V)	4872(H) x 3248 (V)
Data Depth	8 bit or 12 bit	8 bit or 12 bit	8 bit or 12 bit	8 bit or 12 bit	8 bit or 12 bit	8 bit or 12 bit
Pixel Size	7.40 x 7.40 $\mu$ m	7.40 x 7.40 $\mu$ m	3.45 x 3.45 $\mu$ m	7.40 x 7.40 $\mu$ m	9.00 x 9.00 $\mu$ m	7.40 x 7.40 $\mu$ m
Max FPS / Max Res.	200 fps	30 fps	15 fps	16 fps	5 fps	3 fps
Scanning System	Progressive Scan					
Binning	2x2 (only mono)					
Format 7	Partial Scan (Unit: 4x4)					
Trigger	Edge	Rising Edge or Falling Edge				
	Source	External Trigger or Software Trigger				
Strobe Output	Support Normal Mode or Trigger Mode.					
Memory Save/Load	9 Channels (0:factory, 1~4:feature, 5~8:mode/feature)					
SIO(RS-232)	Pass through or IMI-Tech Command					
Digital Interface	GigE Vision Interface compliant to GenICam					
Gain Control	0~ 18 dB (Manual or Auto)					
Shutter Speed	1 $\mu$ sec ~ 3600 sec					
S/N Ratio	56 dB Better					
Control Functions	Brightness, Sharpness, Gamma, Auto-Exposure, Auto-Shutter, (*U/B, V/R, Hue/G (digital gain), Auto White Balance)					
Lens Mount	C/CS Mount			F Mount		
External Dimension	50(W) x 50(H) x 47(D) mm / approx. 200 gram			66(W) x 66(H) x 51.5(D) mm / approx. 290 gram		

