GENIE QUICK REFERENCE GUIDE



Pyramid Imaging

COLOR SERIES

GENIE MODEL	C640 1/3	C640 1/2	C1024	C1280	C1400 1/2	C1410 2/3	C1600
Active Resolution	640 x 480	640 x 480	1024 x 768	1280x960	1360 x 1024	1360 x 1024	1600 x 1200
Frame Rate	64 fps	64 fps	20 fps	24fps	15 fps	21.8 fps	15 fps
Pixel Size	7.4 µm	9.9 µm	4.65 µm	3.75 µm	4.65 µm	6.45 µm	4.40 µm
Sony Sensor Part #	ICX424AQ	ICX414AQ	ICX204AK	ICX445AL	ICX267AK	ICX285AQ	ICX274AQ
Imager Dimensions	4.80 x 3.60 mm	6.40 x 4.80 mm	4.80 x 3.60 mm	4.60 x 3.60 mm	6.40 x 4.80 mm	8.80 x 6.60 mm	7.20 x 5.40 mm
Diagonal Measurement	6 mm (1/3")	8 mm (1/2")	6 mm (1/3")	6 mm (1/3")	8 mm (1/2")	11 mm (2/3")	9 mm (1/1.8")
Data Format	RGB 32-bit, UYVY, YUY2 or Raw Bayer	RGB 32-bit, UYVY, YUY2 or Raw Bayer	RGB 32-bit, UYVY, YUY2 or Raw Bayer	RGB 32-bit, UYVY, YUY2 or Raw Bayer	RGB 32-bit, UYVY, YUY2 or Raw Bayer	RGB 32-bit, UYVY, YUY2 or Raw Bayer	RGB 32-bit, UYVY, YUY2 or Raw Bayer
Dynamic Range	54 dB	54 dB	54 dB	52dB	54 dB	54 dB	54 dB
Part Number	CR-GC03-C640x	CR-GC00-C640x	CR-GC00-C102c	CR-GC00-C128x	CR-GC00-C140x	CR-GC03-C141x	CR-GC00-C160x

MONOCHROME SERIES

GENIE MODEL	M640 1/3	M640 1/2	M1024	M1280	M1400 1/2	M1410 2/3	M1600
Active Resolution	640 x 480	640 x 480	1024 x 768	1280x960	1360 x 1024	1360 x 1024	1600 x 1200
Frame Rate	64 fps	64 fps	20 fps	24fps	15 fps	21.8 fps	15 fps
Pixel Size	7.4 µm	9.9 µm	4.65 µm	3.75 µm	4.65 µm	6.45 µm	4.40 µm
Sony Sensor Part #	ICX424AL	ICX414AL	ICX204AL	ICX445AL	ICX267AL	ICX285AL	ICX274AL
Imager Dimensions	4.80 x 3.60 mm	6.40 x 4.80 mm	4.80 x 3.60 mm	4.60 x 3.60 mm	6.40 x 4.80 mm	8.80 x 6.60 mm	7.20 x 5.40 mm
Diagonal Measurement	6 mm (1/3")	8 mm (1/2")	6 mm (1/3")	6 mm (1/3")	8 mm (1/2")	11 mm (2/3")	9 mm (1/1.8")
Data Format	8, 10 bit	8, 10 bit	8, 10 bit	8, 10 bit	8, 10 bit	8, 10 bit	8, 10 bit
Dynamic Range	54 dB	54 dB	54 dB	52dB	54 dB	54 dB	54 dB
Part Number	CR-GM03-C640x	CR-GM00-C640x	CR-GM00-C102c	CR-GM00-m128x	CR-GM00-C140x	CR-GM03-M141x	CR-GM00-C160x

HM / HC SERIES (* indicates specs are the same)

GENIE MODEL	HM640 / HC640	HM1024 / HC1024	HM1400 / HC1400	HM1400XDR
Active Resolution	640 x 480 *	1024 x 768 *	1400 x 1024 *	1400 x 1024
Frame Rate	300 fps *	117 fps *	64 fps *	64 fps
Pixel Size	7.4 µm *	7.4 µm *	7.4 µm *	7.4 µm
Imager Dimensions	4.80 x 3.60 mm *	8.80 x 6.60 mm *	10.40 x 7.60 mm *	10.40 x 7.60 mm
Diagonal Measurement	6 mm (1/3") *	11 mm (2/3") *	12.88 mm (1") *	12.88 mm (1")
Data Format	8 bit *	8 bit *	8, 10 bit *	8, 10 bit
Dynamic Range	48 dB *	48 dB *	48 dB *	55 dB
Part Number	CR-GM00-H640x CR-GC00-H640x	CR-GM00-H102x CR-GC00-H102x	CR-GM00-H140x CR-GC00-H140x	CR-GM01-H140x



Genie cameras ship with Teledyne DALSA's Sapera™ Essential software. Sapera Essential offers easy-to-use camera configuration and set-up wizards, a versatile imaging library as well as specific tools for simple and advanced machine vision applications.

www.teledynedalsa.com

Common for all Genies

Exposure Control	Programmable, or via External Trigger
Nominal Gain Range	-6 dB to +12 dB (C/M) 0 dB to +12 dB (HM)
Output	Gigabit Ethernet, also supports 100 Mbps
I/O Ports	2 opto-isolated input, 2 opto-isolated output
Size	44 x 29 x 67 mm (including lens adapter)
Mass	~115 g (without lens)
Operating Temp	0°–45°C
Power Supply	12 to 24V
Power Dissipation	up to 4W
Data Connector	Standard or Screw mount RJ-45
Power and I/O	Hirose 12-Pin
Software Platform	Teledyne DALSA Sapera LT/ 3rd party GigE Vision compliant
Regulatory Compliance	FCC Class A, CE, RoHs 2002/95/EC
Lens Mount	C or CS-mount or Right-Angle option

GiGE VISION

TELEDYNE DALSA
A Teledyne Technologies Company

This information is correct as of October 8, 2010. Information is subject to change without notice. For updates, please contact Product Management. ® Teledyne DALSA 2011

Pyramid Imaging Inc • 945 East 11th Avenue • Tampa, FL 33605 • +1 813 984 0125 • sales@pyramidimaging.com • pyramidimaging.com