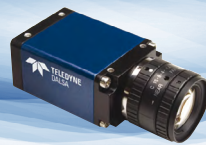


GENIE QUICK REFERENCE GUIDE



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 |

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

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 Sopera 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 |



Genie cameras ship with Teledyne DALSA's Sopera™ Essential software. Sopera 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.

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WWW.STEMMER-IMAGING.COM · IMAGING IS OUR PASSION

GERMANY
AUSTRIA
Phone: +49 89 80902-0
info@stemmer-imaging.de

UNITED KINGDOM
IRELAND
Phone: +44 1252 780000
info@stemmer-imaging.co.uk

FRANCE
Phone: +33 1 45069560
info@stemmer-imaging.fr

SWITZERLAND
LIECHTENSTEIN
Phone: +41 55 415 90 90
info@stemmer-imaging.ch

THE NETHERLANDS
BELGIUM · LUXEMBOURG
Phone: +31 575 798888
info@stemmer-imaging.nl

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