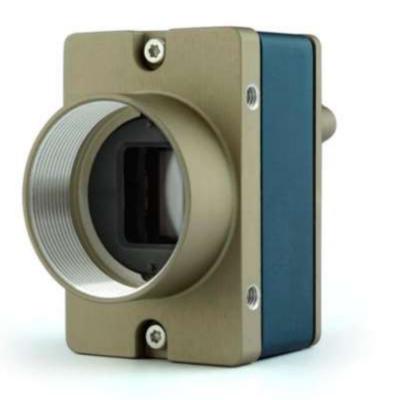
GiGE





Genie Nano

Smaller, faster, stronger, cheaper. Better in every way that matters.





TELEDYNE DALSA Everywherevoulook

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Genie[®] Nano...built on a proven platform and a rich legacy of performance and versatility.

Genie Elite Genie TS Genie

- GigE Vision[®]
- State-of-the-art CMOS sensors
- Higher frame rates
- Wider, deeper feature set
- Small and robust quality build
- Our lowest price ever



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Genie Nano Powerful Features, Accelerated System Performance

Fits Tight Spaces 44mm x 29mm x 21mm	Wide Temperature Range -20 to 60°C (Housing)	Versatile I/O 2 inputs/2 opto-coupled outputs
Slimmest Body Length Available	Reliable in Harsh Environments	Easy Integration and Deployment
TurboDrive Up to 2X Faster Transmission	Super Light-Weight 46 Grams	Trigger-to-Image Reliability System Level Track and Trace
Achieve Data Rate Beyond GigE Vision Limits	Ideal for UAV or Robotics	Protection from Data Loss and Improved Reliability



Genie[®] Nano Small Package, Big Functionality

Genie Nano Dimensions (mm)		• Multi-color LED for easy
Width	44	camera status
leight	29	• 2 inputs & 2 opto-coupled
Body length	21.15	• Power-Over-Ethernet
Length (w/o connector*)	31.6	(PoE) or 10-36 volts on the auxiliary connector
Length (with connector*) * for C-mount version	38.8	• C-mount or CS-Mount versions

• Secure RJ-45 & Auxiliary connectors

Note: The front mounting holes of <u>all</u> Genie series are at the same position and are the same size





Customer Edition

Genie[®] Nano

Introducing TurboDrive ... Break Through the GigE Limit

- **TurboDrive** technology allows Genie Nano to transfer full image quality at faster frame rates —with no change to your GigE network.
 - Proprietary patent pending technology
 - Does not affect image integrity
 - Enabled through CamExpert, or through the Sapera LT API



	Genie Nano with Sony IMX174	Standard	With TurboDrive
Product Spotlight TurboDrive [™]	Actual FPS received on the computer	52 FPS	84 FPS*
Tarbobilve	Effective bandwidth received at the computer	115MB/sec	184MB/sec

*Transfer speed with TurboDrive is image dependent. Refer to Turbo Drive Primer on our web site .





Genie Nano Advanced Acquisition Features (Firmware v1.0)



Multi-ROI Windows (in-sensor) up to 16 ROI's Capture only the data you need – for increased throughput

Burst acquisition

Grab at the highest sensor rate to capture fast events

General purpose Counter and Timer

Centralize acquisition controls - never miss an event, or strobe

Trigger to Image Reliability

Improved system reliability and customer confidence Packet resend statistics Over trigger event monitors

In-camera image accumulation count





Genie Nano Built For Endurance and Reliability

Temperatures

0

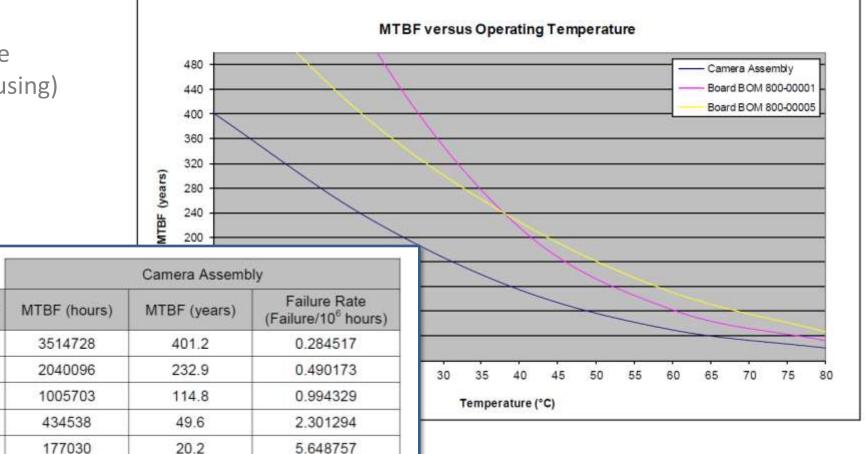
20

40

60

80

A wide operating temperature range, from -20 to 60c (at housing) helps extend camera life and increase system reliability









Customer Edition

Future Deployment • Q1/16: IMX252 and IMX265 (3.2M), mono and color (1/1.8" sensor)

Genie[®] Nano

CMOS Sensor Platform

IMX250 and IMX264 (5.1M), mono and color (2/3" sensor)

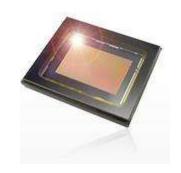
Q3/15: IMX174 and IMX249 (2.3M), mono and color (1/1.2" sensor)

All new Sony Pregius sensors

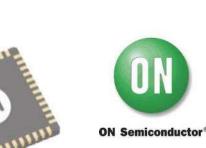
- Q4/15: Python 0.3/0.5/1.3M Mono, NIR and color versions
- Q1/16: Python 2.3/5.1M Mono, NIR and color versions
- TBD Aptina 14M/18M (rolling shutter)

Customer Edition











Genie Nano Features Roadmap



✓ Multi-ROI Windows (FPGA based) for the IMX249

- Capture only the data you need – increased throughput

- ✓ Multi-Exposures in Cycling Mode
 - Improves image quality for better analysis
- ✓ Auto-Brightness (AGC and Exposure)
 - Improves image quality in challenging lighting conditions
- ✓ Color Enhancement
 - Improves image quality for better quality control
- ✓ Multicast Feature
 - Commands and image distribution to simplify setup
- ✓ Precise Time Protocol (IEEE 1588) support
 - Same timestamp on multiple cameras



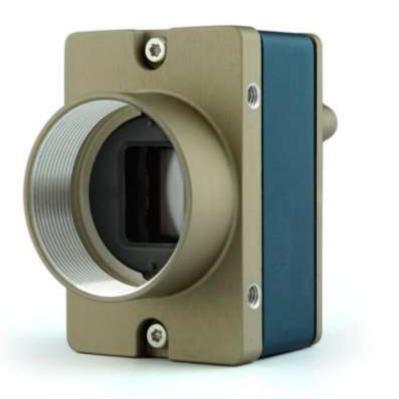






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