MAX251 scientific cameras

Medium-format IMX811 imaging with 10GigE or CoaXPress acquisition

19200 × 12800 pixels · 2.81 µm pixels · monochrome and colour configurations



Actual MAX251 series front and rear views. The rear photograph shows a 10GigE connection; connectors depend on the selected model.

Choose the acquisition interface

Model	Image type	Interface	Full-resolution rate*
MAX251AM-10G	Monochrome	10GigE	Up to 4.7 fps
MAX251AC-10G	Color	10GigE	Up to 4.7 fps
MAX251AM-CXP	Monochrome	CoaXPress	Up to 12.4 fps
MAX251AC-CXP	Color	CoaXPress	Up to 12.4 fps

*Announced maximum at 19200 × 12800. Bit depth and test conditions are not stated. Confirm sustained transfer and acquisition hardware.

Specification edition: 6 November 2026. Earlier model revisions may differ.

Published specifications

Model-specific sensors

Image type	Sensor
Monochrome	Sony IMX811ALR
Color	Sony IMX811AQR

Shared release specifications

Resolution	251 MP class (19200 × 12800 pixels)
Pixel Size	2.81 µm × 2.81 µm
Spectral Range	400-1000 nm
Cooling	TEC air cooling, 35 °C below ambient
Sensor format	4.1-inch medium format (announced format designation)
Shutter Type	Rolling shutter with global reset
Memory	2048 MB (16 Gb)
Dark Current	0.0003 e-/pixel/s at -30 °C

Gain-mode performance

Parameter	HCG	LCG
Readout Noise	1.48 e-	3.15 e-
Dynamic Range	77.3 dB	78.9 dB
Maximum SNR	40.4 dB	44.5 dB

The 6 November 2026 announcement lists separate 10GigE and CoaXPress model identifiers. Select the interface for the required acquisition system; simultaneous output over both interfaces is not specified.

Maximum full-resolution frame rates are announced without bit-depth or test conditions. Confirm sustained transfer, recording bandwidth and acquisition hardware for the selected model.

Global reset is a mode of the rolling shutter, not a global-shutter specification. Cooling is a temperature difference below ambient; the dark-current measurement is specified separately at a sensor temperature of -30 °C.

The announcement does not publish quantum-efficiency measurements or curves, full-well capacity, exposure limits, bit depth, lens mount, dimensions, power requirements, trigger electrical levels or CoaXPress version/lane count. Confirm these details for the supplied configuration.

This summary transcribes the product announcement dated 6 November 2026. It does not add measurements for unreported fields.